



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 10:42 AM UTC

PDB ID : 9NH0 / pdb_00009nh0
EMDB ID : EMD-49398
Title : In situ cryo-EM structure of PR and DotA-IcmX of the Legionella Dot/Icm T4SS machine at C1 symmetry
Authors : Yue, J.; Liu, J.
Deposited on : 2025-02-23
Resolution : 4.63 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

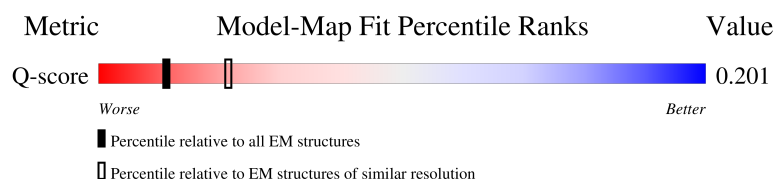
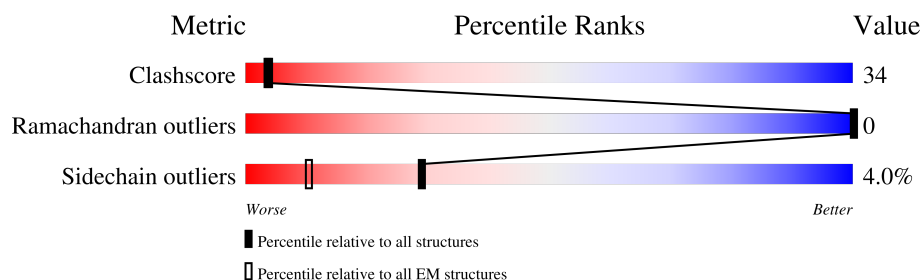
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

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

The reported resolution of this entry is 4.63 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2068 (4.13 - 5.13)

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

Mol	Chain	Length	Quality of chain
1	Aa	16	100% 62% 38%
1	Ag	16	100% 50% 50%
1	Am	16	100% 31% 62% 6%
1	As	16	100% 69% 31%

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Mol	Chain	Length	Quality of chain
1	Ay	16	100% 56% 44%
1	Be	16	100% 69% 31%
1	Bk	16	100% 38% 62%
1	Bq	16	100% 62% 38%
1	Bw	16	100% 69% 31%
1	Cc	16	100% 38% 62%
1	Ci	16	100% 50% 38% 12%
1	Co	16	100% 56% 44%
1	Cu	16	100% 50% 50%
1	Da	16	100% 56% 44%
1	Dg	16	100% 56% 38% 6%
1	Dm	16	100% 56% 38% 6%
1	Ds	16	100% 50% 44% 6%
1	Dy	16	100% 69% 31%
2	Ab	9	78% 56% 44%
2	Ah	9	89% 56% 44%
2	An	9	100% 67% 33%
2	At	9	100% 44% 56%
2	Az	9	100% 56% 44%
2	Bf	9	100% 44% 56%
2	Bl	9	100% 44% 56%
2	Br	9	100% 56% 44%
2	Bx	9	89% 56% 44%
2	Cd	9	100% 56% 44%
2	Cj	9	100% 56% 44%

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Mol	Chain	Length	Quality of chain
2	Cp	9	
2	Cv	9	
2	Db	9	
2	Dh	9	
2	Dn	9	
2	Dt	9	
2	Dz	9	
3	Ac	16	
3	Ai	16	
3	Ao	16	
3	Au	16	
3	Ba	16	
3	Bg	16	
3	Bm	16	
3	Bs	16	
3	By	16	
3	Ce	16	
3	Ck	16	
3	Cq	16	
3	Cw	16	
3	Dc	16	
3	Di	16	
3	Do	16	
3	Du	16	
3	Ea	16	

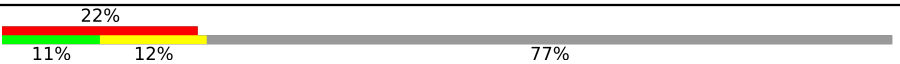
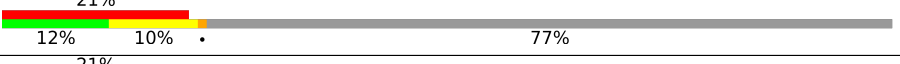
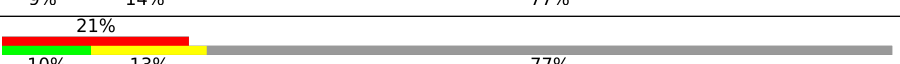
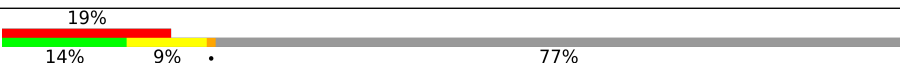
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Mol	Chain	Length	Quality of chain
4	Ad	5	
4	Aj	5	
4	Ap	5	
4	Av	5	
4	Bb	5	
4	Bh	5	
4	Bn	5	
4	Bt	5	
4	Bz	5	
4	Cf	5	
4	Cl	5	
4	Cr	5	
4	Cx	5	
4	Dd	5	
4	Dj	5	
4	Dp	5	
4	Dv	5	
4	Eb	5	
5	Ae	269	
5	Ak	269	
5	Aq	269	
5	Aw	269	
5	Bc	269	
5	Bi	269	
5	Bo	269	

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Mol	Chain	Length	Quality of chain
5	Bu	269	
5	Ca	269	
5	Cg	269	
5	Cm	269	
5	Cs	269	
5	Cy	269	
5	De	269	
5	Dk	269	
5	Dq	269	
5	Dw	269	
5	Ec	269	
6	Af	361	
6	Al	361	
6	Ar	361	
6	Ax	361	
6	Bd	361	
6	Bj	361	
6	Bp	361	
6	Bv	361	
6	Cb	361	
6	Ch	361	
6	Cn	361	
6	Ct	361	
6	Cz	361	
6	Df	361	

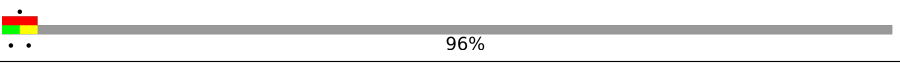
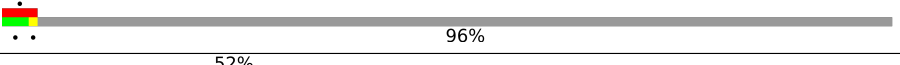
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Mol	Chain	Length	Quality of chain
6	Dl	361	
6	Dr	361	
6	Dx	361	
6	Ed	361	
7	Ee	1048	
7	Ef	1048	
7	Eg	1048	
7	Eh	1048	
7	Ei	1048	
7	Ej	1048	
7	Ek	1048	
7	El	1048	
7	Em	1048	
7	En	1048	
7	Eo	1048	
7	Ep	1048	
7	Eq	1048	
7	Er	1048	
7	Es	1048	
7	Et	1048	
7	Eu	1048	
7	Ev	1048	
7	Fg	1048	
7	Fh	1048	
7	Fi	1048	

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Mol	Chain	Length	Quality of chain
7	Fj	1048	 96%
7	Fk	1048	 96%
8	Ew	466	 52% 43% 44% 11%
8	Ex	466	 50% 43% 45% 11%
8	Ey	466	 48% 40% 48% 11%
8	Ez	466	 50% 44% 43% 11%
8	Fa	466	 49% 42% 45% 11%
9	Fb	1048	 74% 40% 40% 18%
9	Fc	1048	 77% 40% 39% 18%
9	Fd	1048	 75% 39% 41% 18%
9	Fe	1048	 75% 42% 37% 18%
9	Ff	1048	 75% 40% 40% 18%

2 Entry composition [i](#)

There are 9 unique types of molecules in this entry. The entry contains 94015 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called unknown peptide E.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	Aa	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Ag	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Am	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	As	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Ay	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Be	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Bk	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Bq	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Bw	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Cc	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Ci	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Co	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Cu	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Da	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Dg	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Dm	16	Total	C	N	O	S	0	0
			117	71	20	25	1		
1	Ds	16	Total	C	N	O	S	0	0
			117	71	20	25	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Dy	16	Total	C	N	O	S	0	0
			117	71	20	25	1		

- Molecule 2 is a protein called unknown peptide F.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Ab	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Ah	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	An	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	At	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Az	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Bf	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Bl	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Br	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Bx	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Cd	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Cj	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Cp	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Cv	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Db	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Dh	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Dn	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Dt	9	Total	C	N	O	S	0	0
			61	35	12	12	2		
2	Dz	9	Total	C	N	O	S	0	0
			61	35	12	12	2		

- Molecule 3 is a protein called unknown peptide G.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	Ac	16	Total	C	N	O	0	0
			125	78	21	26		
3	Ai	16	Total	C	N	O	0	0
			125	78	21	26		
3	Ao	16	Total	C	N	O	0	0
			125	78	21	26		
3	Au	16	Total	C	N	O	0	0
			125	78	21	26		
3	Ba	16	Total	C	N	O	0	0
			125	78	21	26		
3	Bg	16	Total	C	N	O	0	0
			125	78	21	26		
3	Bm	16	Total	C	N	O	0	0
			125	78	21	26		
3	Bs	16	Total	C	N	O	0	0
			125	78	21	26		
3	By	16	Total	C	N	O	0	0
			125	78	21	26		
3	Ce	16	Total	C	N	O	0	0
			125	78	21	26		
3	Ck	16	Total	C	N	O	0	0
			125	78	21	26		
3	Cq	16	Total	C	N	O	0	0
			125	78	21	26		
3	Cw	16	Total	C	N	O	0	0
			125	78	21	26		
3	Dc	16	Total	C	N	O	0	0
			125	78	21	26		
3	Di	16	Total	C	N	O	0	0
			125	78	21	26		
3	Do	16	Total	C	N	O	0	0
			125	78	21	26		
3	Du	16	Total	C	N	O	0	0
			125	78	21	26		
3	Ea	16	Total	C	N	O	0	0
			125	78	21	26		

- Molecule 4 is a protein called unknown peptide H.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	Ad	5	Total	C	N	O	0	0
			36	23	5	8		

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Mol	Chain	Residues	Atoms				AltConf	Trace
4	Aj	5	Total	C	N	O	0	0
			36	23	5	8		
4	Ap	5	Total	C	N	O	0	0
			36	23	5	8		
4	Av	5	Total	C	N	O	0	0
			36	23	5	8		
4	Bb	5	Total	C	N	O	0	0
			36	23	5	8		
4	Bh	5	Total	C	N	O	0	0
			36	23	5	8		
4	Bn	5	Total	C	N	O	0	0
			36	23	5	8		
4	Bt	5	Total	C	N	O	0	0
			36	23	5	8		
4	Bz	5	Total	C	N	O	0	0
			36	23	5	8		
4	Cf	5	Total	C	N	O	0	0
			36	23	5	8		
4	Cl	5	Total	C	N	O	0	0
			36	23	5	8		
4	Cr	5	Total	C	N	O	0	0
			36	23	5	8		
4	Cx	5	Total	C	N	O	0	0
			36	23	5	8		
4	Dd	5	Total	C	N	O	0	0
			36	23	5	8		
4	Dj	5	Total	C	N	O	0	0
			36	23	5	8		
4	Dp	5	Total	C	N	O	0	0
			36	23	5	8		
4	Dv	5	Total	C	N	O	0	0
			36	23	5	8		
4	Eb	5	Total	C	N	O	0	0
			36	23	5	8		

- Molecule 5 is a protein called IcmG (DotF).

Mol	Chain	Residues	Atoms					AltConf	Trace
5	Ae	63	Total	C	N	O	S	0	0
			484	308	84	91	1		
5	Ak	63	Total	C	N	O	S	0	0
			484	308	84	91	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Aq	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Aw	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Bc	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Bi	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Bo	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Bu	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Ca	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Cg	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Cm	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Cs	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Cy	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	De	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Dk	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Dq	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Dw	63	Total 484	C 308	N 84	O 91	S 1	0	0
5	Ec	63	Total 484	C 308	N 84	O 91	S 1	0	0

- Molecule 6 is a protein called IcmK (DotH).

Mol	Chain	Residues	Atoms					AltConf	Trace
6	Af	160	Total 1238	C 795	N 207	O 233	S 3	0	0
6	Al	160	Total 1238	C 795	N 207	O 233	S 3	0	0
6	Ar	160	Total 1238	C 795	N 207	O 233	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	Ax	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Bd	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Bj	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Bp	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Bv	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Cb	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Ch	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Cn	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Ct	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Cz	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Df	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Dl	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Dr	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Dx	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		
6	Ed	160	Total	C	N	O	S	0	0
			1238	795	207	233	3		

- Molecule 7 is a protein called IcmE (DotG).

Mol	Chain	Residues	Atoms					AltConf	Trace
7	Ee	34	Total	C	N	O	S	0	0
			276	168	47	60	1		
7	Ef	59	Total	C	N	O	S	0	0
			472	287	81	103	1		
7	Eg	34	Total	C	N	O	S	0	0
			276	168	47	60	1		
7	Eh	48	Total	C	N	O	S	0	0
			397	244	68	84	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Ei	49	Total	C	N	O	S	0	0
			402	247	69	85	1		
7	Ej	58	Total	C	N	O	S	0	0
			464	283	80	100	1		
7	Ek	34	Total	C	N	O	S	0	0
			276	168	47	60	1		
7	El	34	Total	C	N	O	S	0	0
			276	168	47	60	1		
7	Em	46	Total	C	N	O	S	0	0
			381	232	66	82	1		
7	En	34	Total	C	N	O	S	0	0
			276	168	47	60	1		
7	Eo	34	Total	C	N	O	S	0	0
			276	168	47	60	1		
7	Ep	34	Total	C	N	O	S	0	0
			276	168	47	60	1		
7	Eq	57	Total	C	N	O	S	0	0
			459	280	79	99	1		
7	Er	34	Total	C	N	O	S	0	0
			276	168	47	60	1		
7	Es	56	Total	C	N	O	S	0	0
			454	277	78	98	1		
7	Et	48	Total	C	N	O	S	0	0
			397	244	68	84	1		
7	Eu	59	Total	C	N	O	S	0	0
			472	287	81	103	1		
7	Ev	34	Total	C	N	O	S	0	0
			276	168	47	60	1		
7	Fg	43	Total	C	N	O	S	0	0
			334	221	58	54	1		
7	Fh	43	Total	C	N	O	S	0	0
			334	221	58	54	1		
7	Fi	43	Total	C	N	O	S	0	0
			334	221	58	54	1		
7	Fj	43	Total	C	N	O	S	0	0
			334	221	58	54	1		
7	Fk	43	Total	C	N	O	S	0	0
			334	221	58	54	1		

- Molecule 8 is a protein called IcmX (IcmY).

Mol	Chain	Residues	Atoms					AltConf	Trace
8	Ew	417	Total	C	N	O	S	0	0
			3213	2013	542	646	12		
8	Ex	417	Total	C	N	O	S	0	0
			3213	2013	542	646	12		
8	Ey	417	Total	C	N	O	S	0	0
			3213	2013	542	646	12		
8	Ez	417	Total	C	N	O	S	0	0
			3213	2013	542	646	12		
8	Fa	417	Total	C	N	O	S	0	0
			3213	2013	542	646	12		

- Molecule 9 is a protein called DotA.

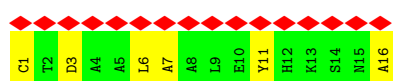
Mol	Chain	Residues	Atoms					AltConf	Trace
9	Fb	857	Total	C	N	O	S	0	0
			6560	4256	1051	1202	51		
9	Fc	857	Total	C	N	O	S	0	0
			6560	4256	1051	1202	51		
9	Fd	857	Total	C	N	O	S	0	0
			6560	4256	1051	1202	51		
9	Fe	857	Total	C	N	O	S	0	0
			6560	4256	1051	1202	51		
9	Ff	857	Total	C	N	O	S	0	0
			6560	4256	1051	1202	51		



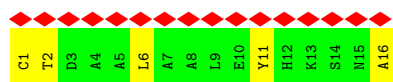
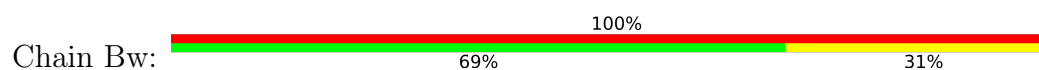
- Molecule 1: unknown peptide E



- Molecule 1: unknown peptide E



- Molecule 1: unknown peptide E



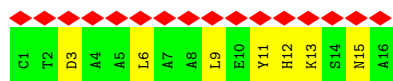
- Molecule 1: unknown peptide E



- Molecule 1: unknown peptide E



- Molecule 1: unknown peptide E



- Molecule 1: unknown peptide E



- Molecule 1: unknown peptide E



- Molecule 1: unknown peptide E



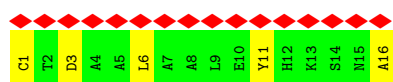
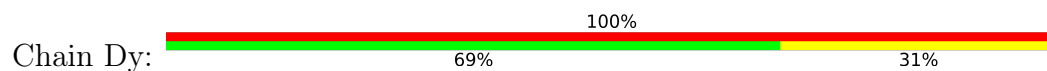
- Molecule 1: unknown peptide E



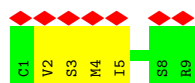
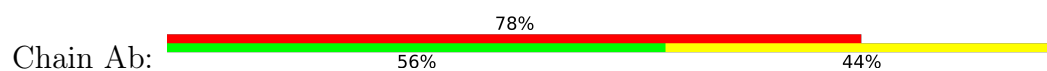
- Molecule 1: unknown peptide E



- Molecule 1: unknown peptide E



- Molecule 2: unknown peptide F



- Molecule 2: unknown peptide F



- Molecule 2: unknown peptide F



- Molecule 2: unknown peptide F



- Molecule 2: unknown peptide F



- Molecule 2: unknown peptide F



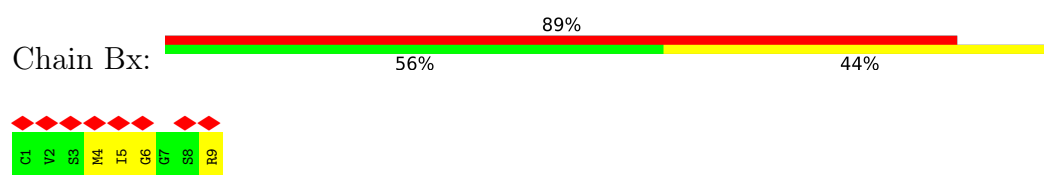
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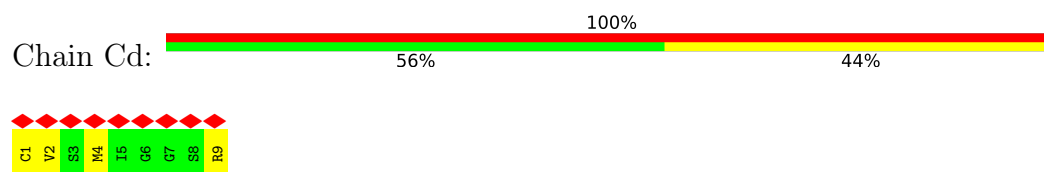
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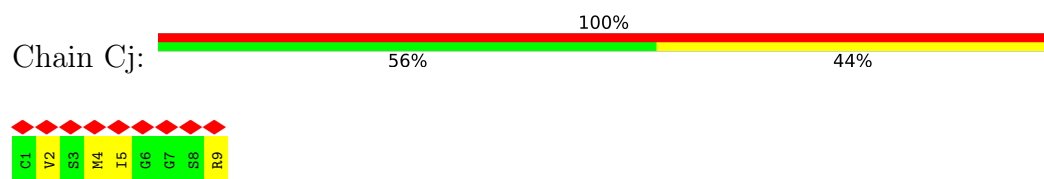
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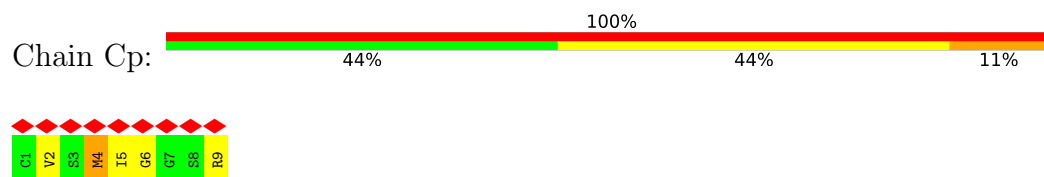
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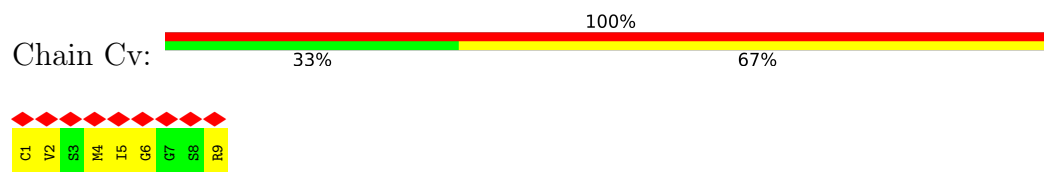
- Molecule 2: unknown peptide F



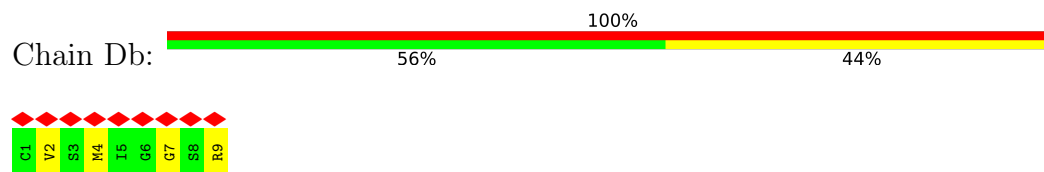
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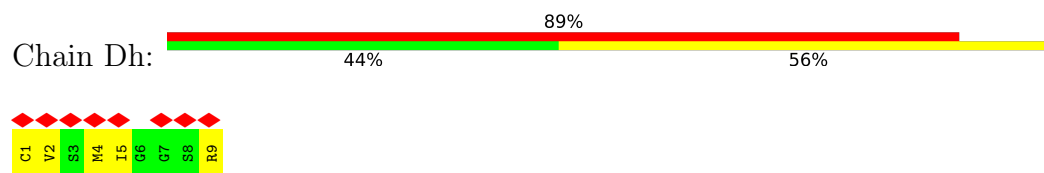
- Molecule 2: unknown peptide F



- Molecule 2: unknown peptide F



- Molecule 2: unknown peptide F



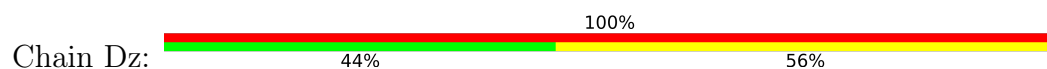
- Molecule 2: unknown peptide F



- Molecule 2: unknown peptide F



- Molecule 2: unknown peptide F



- Molecule 3: unknown peptide G



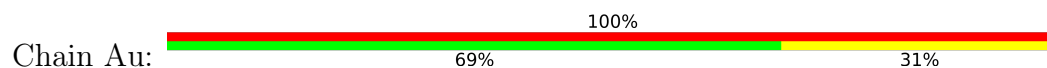
- Molecule 3: unknown peptide G



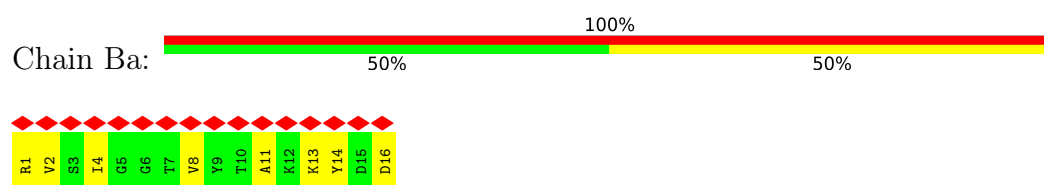
- Molecule 3: unknown peptide G



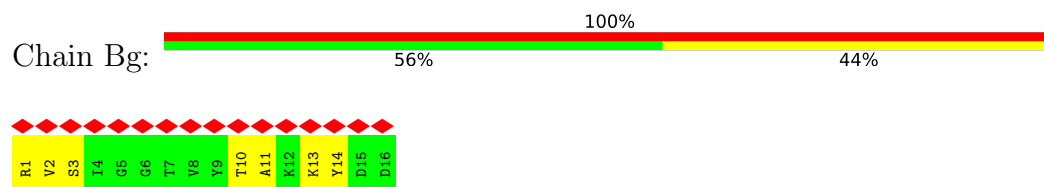
- Molecule 3: unknown peptide G



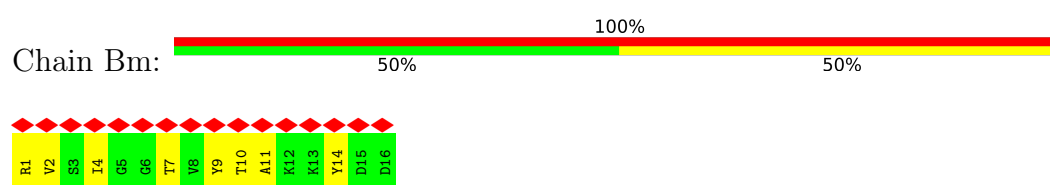
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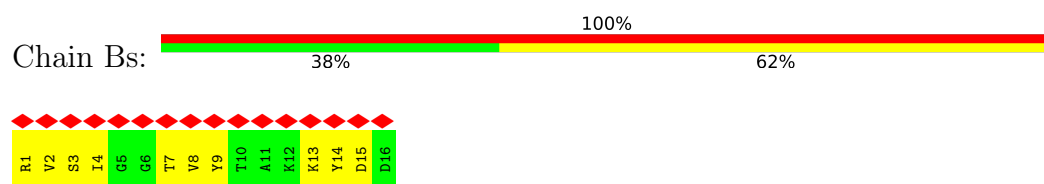
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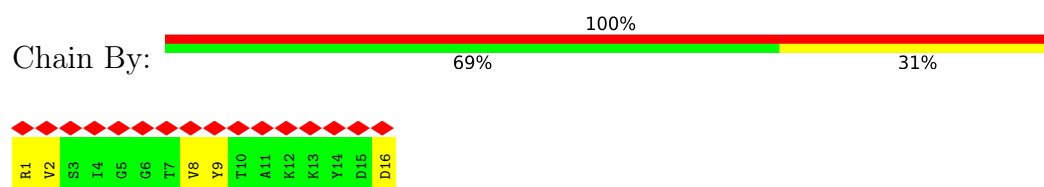
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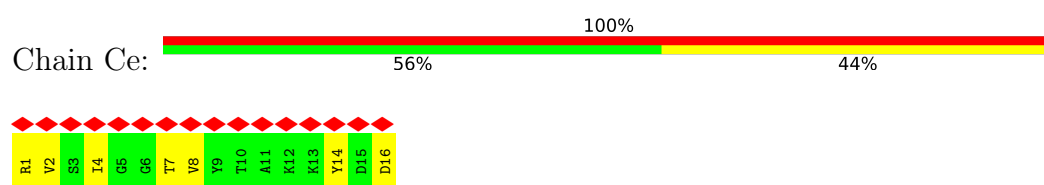
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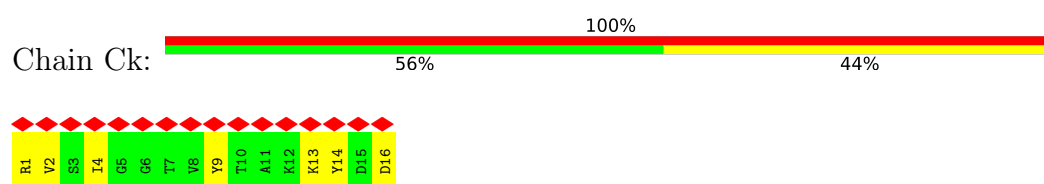
- Molecule 3: unknown peptide G



- Molecule 3: unknown peptide G



- Molecule 3: unknown peptide G



● Molecule 3: unknown peptide G



● Molecule 3: unknown peptide G



● Molecule 3: unknown peptide G



● Molecule 3: unknown peptide G



● Molecule 3: unknown peptide G



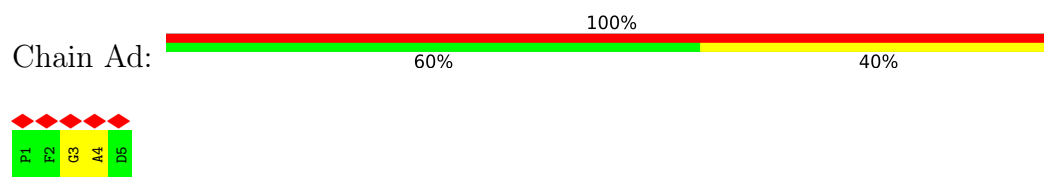
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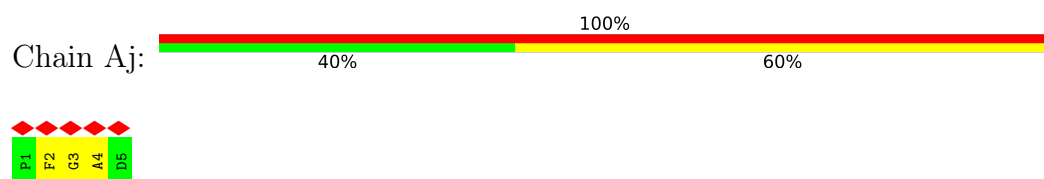
● Molecule 3: unknown peptide G



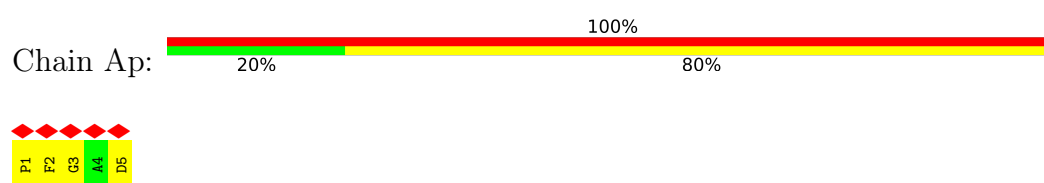
- Molecule 4: unknown peptide H



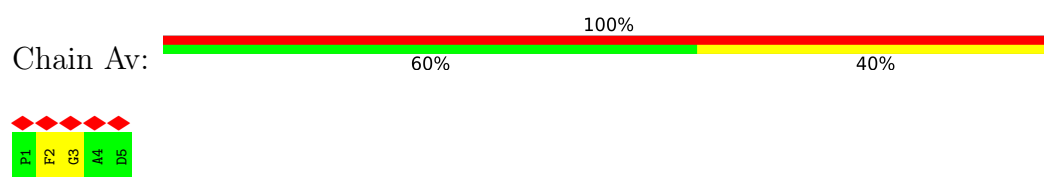
- Molecule 4: unknown peptide H



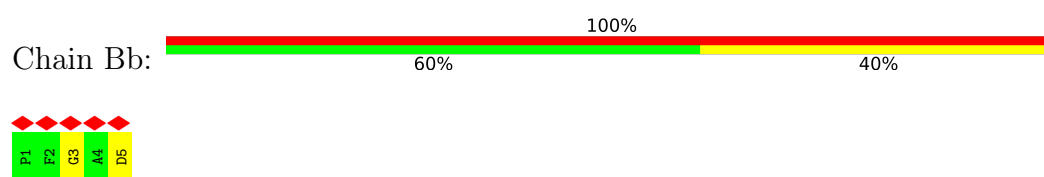
- Molecule 4: unknown peptide H



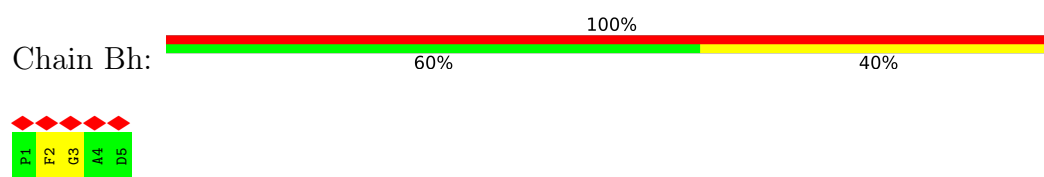
- Molecule 4: unknown peptide H



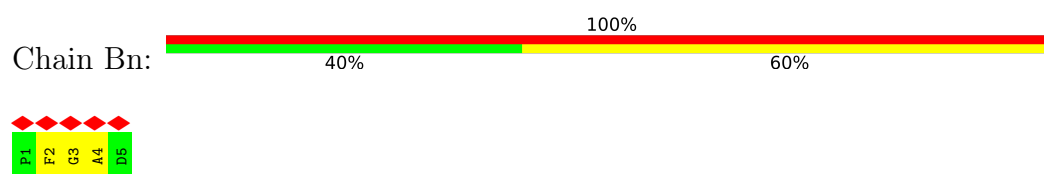
- Molecule 4: unknown peptide H



- Molecule 4: unknown peptide H



- Molecule 4: unknown peptide H



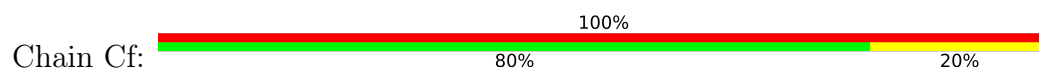
- Molecule 4: unknown peptide H



- Molecule 4: unknown peptide H



- Molecule 4: unknown peptide H



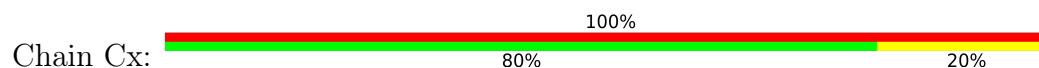
- Molecule 4: unknown peptide H



- Molecule 4: unknown peptide H



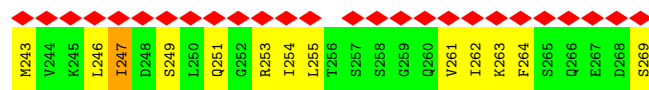
- Molecule 4: unknown peptide H



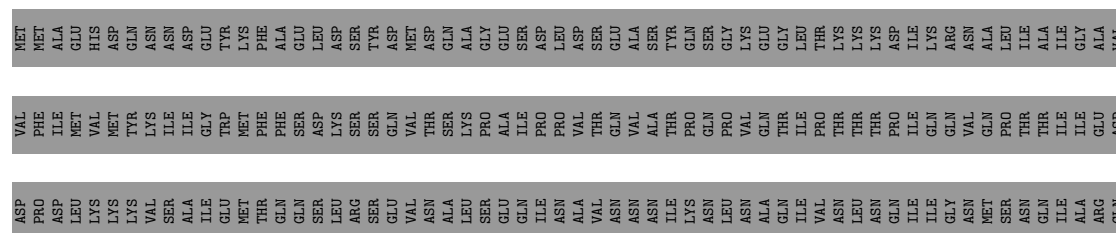
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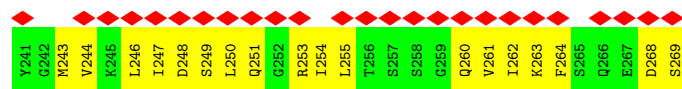
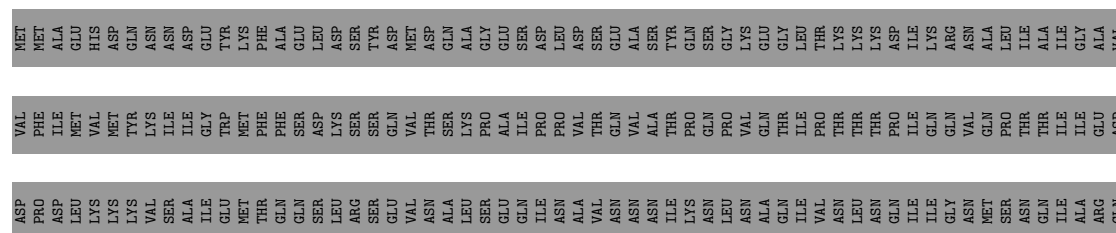
- Molecule 4: unknown peptide H



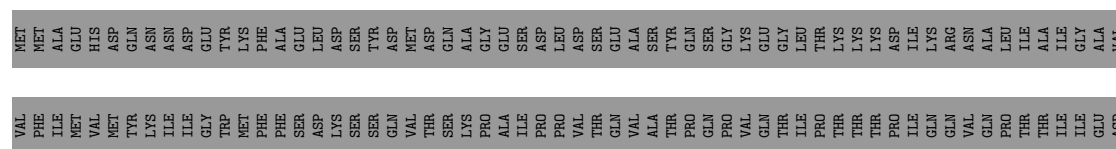
• Molecule 5: IcmG (DotF)

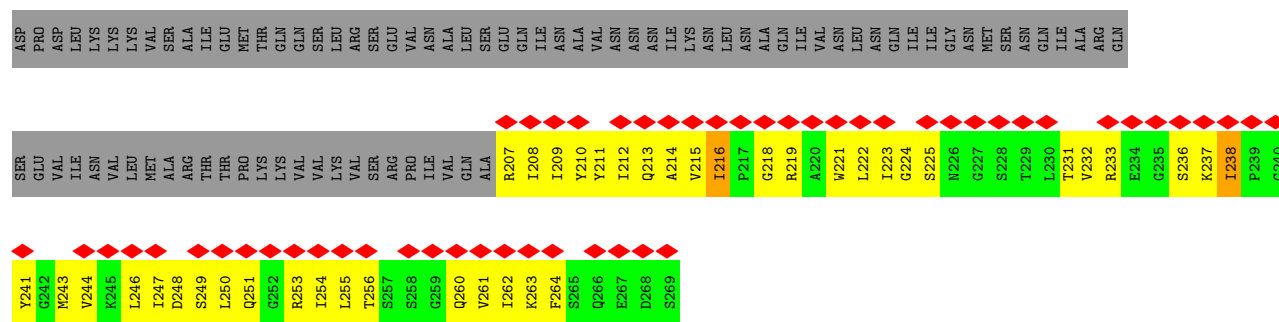


• Molecule 5: IcmG (DotF)

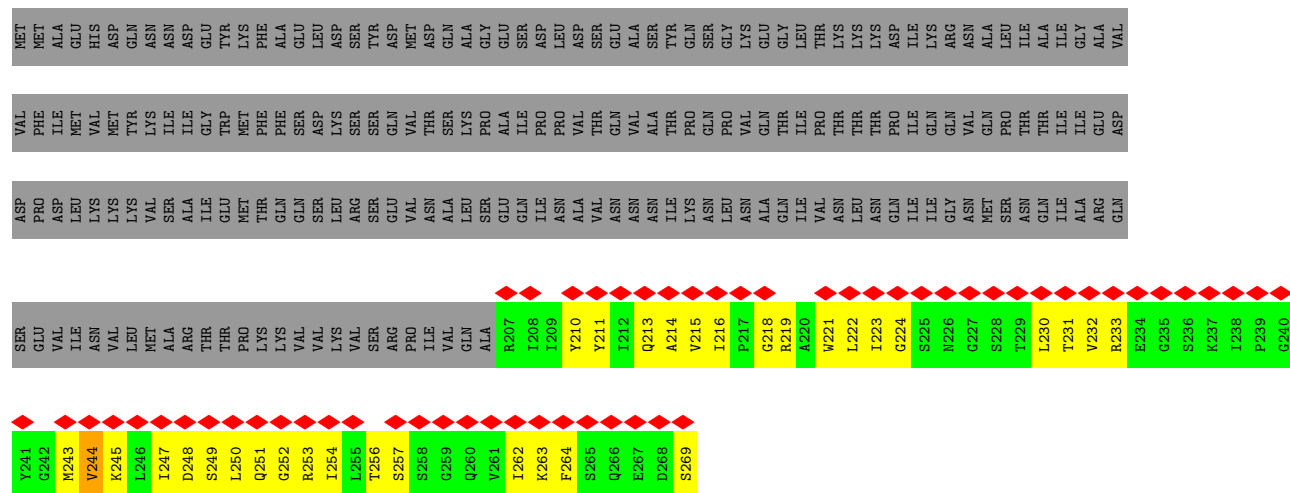


• Molecule 5: IcmG (DotF)

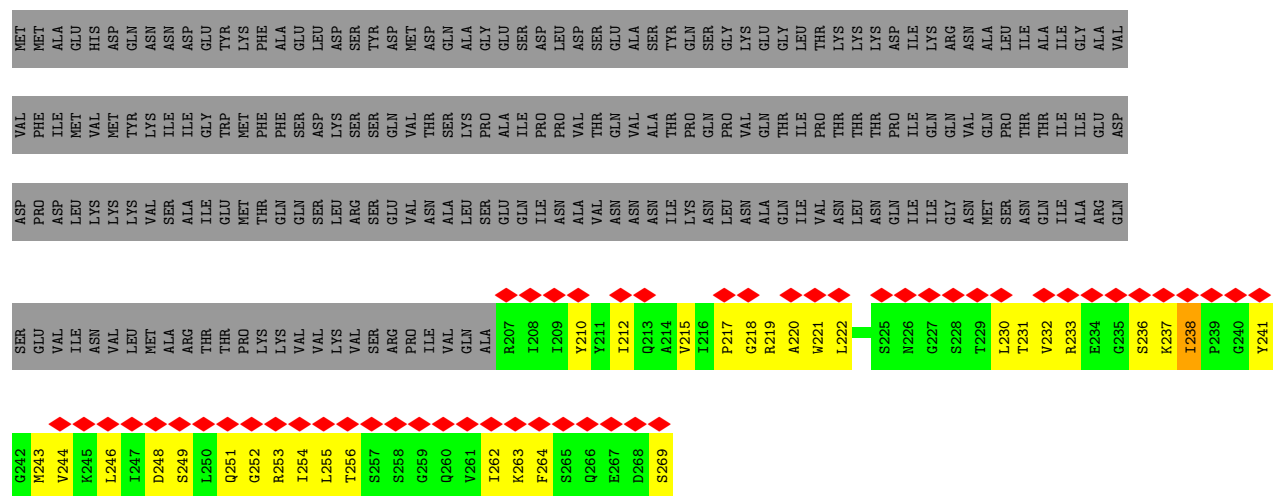




- Molecule 5: IcmG (DotF)



- Molecule 5: IcmG (DotF)



- Molecule 5: IcmG (DotF)



Y241	K242	G243	M244	K245	L246	I247	D248	S249	L250	Q251	G252	R253	T254	L255	T256	S257	S258	G259	Q260	V261	I262	K263	F264	S265	Q266	E267	D268	S269																														
◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆																														
SER	GLU	VAL	ILE	ASN	VAL	LEU	MET	ALA	ARG	THR	PRO	LYS	LYS	VAL	VAL	LYS	VAL	SER	ARG	PRO	ILE	VAL	GLN	ALA	R207	I208	T209	V210	T211	I212	Q213	A214	V215	I216	P217	G218	R219	A220	W221	L222	T223	G224	S225	N226	G227	S228	T229	L230	T231	V232	R233	E234	G235	S236	K237	T238	P239	G240

Chain Cm:

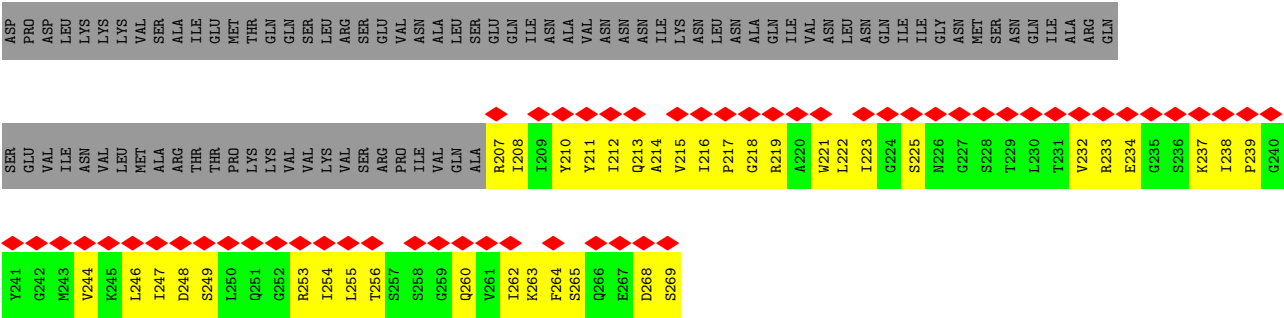
ASP	PRO	ASP	LEU	LYS	LYS	LYS	VAL	SER	ALA	ALA	ILE	GLU	MET	THR	GLN	GLN	SER	LEU	ARG	SER	GLU	VAL	GLU	ASN	ALA	ALA	LEU	SER	GLU	GLN	ILE	ILE	ASN	ASN	VAL	ASN	ASN	ASN	ILE	LYS	ASN	ASN	LEU	LEU	ALA	GLN	ILE	VAL	ASN	ASN	LEU	GLN	ASN	ILE	GLY	GLY	ASN	ASN	SER	ASN	GLN	ILE	ALA	ARG	ILE	ASN
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Y241	G245	L246	I247	S248	L250	Q251	G252	R253	I254	L255	T256	S257	S258	G259	Q260	V261	I262	K263	F264	S265	Q266	E267	D268	S269	SER	GLU	VAL	ILE	ASN	VAL	LEU	MET	ALA	ARG	THR	PRO	LYS	LYS	VAL	LYS	VAL	SER	ARG	PRO	ILE	VAL	GLN	ALA	R207	I208	T209	Y210	Y211	T212	Q213	A214	V215	T216	P217	Q218	R219	A220	W221	L222	I223	G224	S225	W226	G227	S228	T229	L230	T231	V232	R233	E234	Q235	S236	W237	I238	P239
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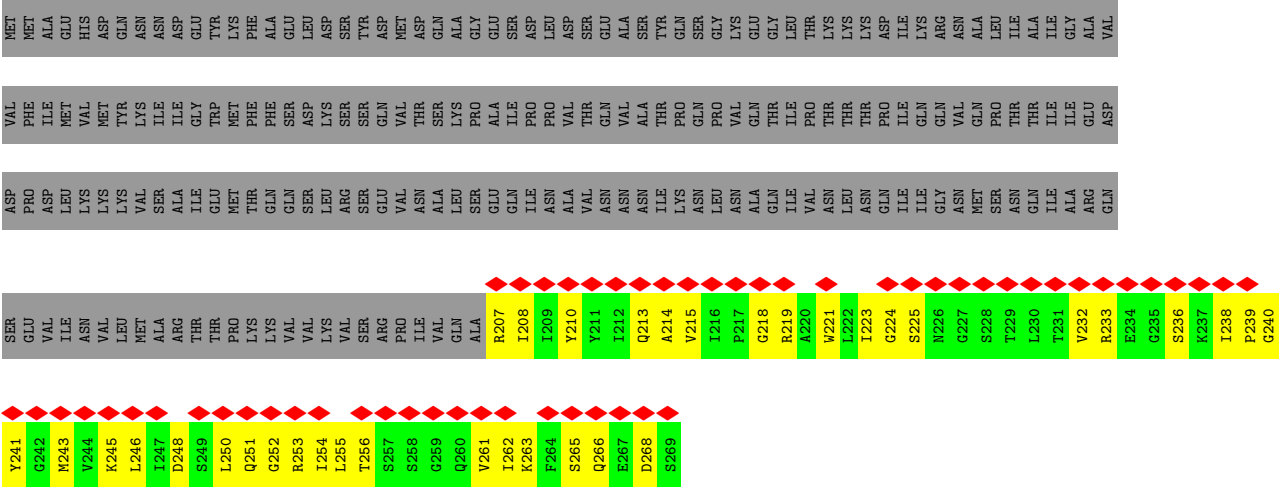
Chain Cs:

ASP	PRO	ASP	ASP	LEU	LYS	LYS	LYS	VAL	SER	SER	ALA	ALA	ILE	GLU	MET	THR	GLN	GLN	SER	LEU	ARG	SER	GLU	GLN	ILE	ASN	ASN	VAL	VAL	ASN	ASN	ASN	ASN	LYS	ASN	LEU	ALA	GLN	ILE	VAL	ASN	LEU	ASN	ASN	GLN	ILE	GLY	ASN	SER	ASN	GLN	ALA	ARG
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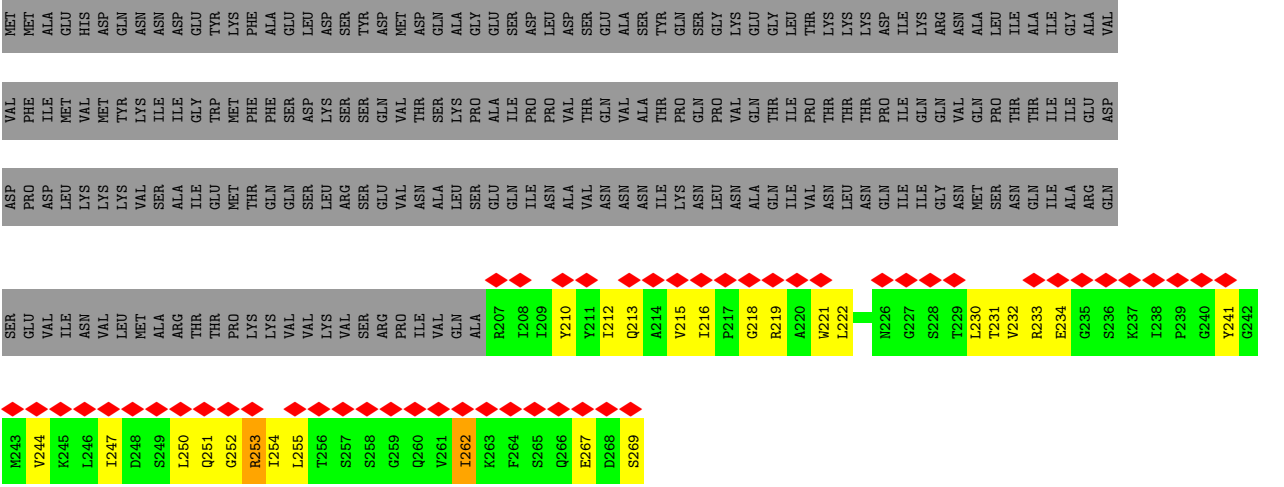
SER	GLU	VAL	ILE	ASN	LEU	MET	ALA	ARG	THR	PRO	LYS	VAL	VAL	LYS	VAL	SER	ARG	PRO	ILE	GLN	ALA	R207	R208	I209	Y210	Y211	Z212	Q213	A214	V215	I216	F217	G218	R219	A220	W221	L222	I223	G224	S225	N226	G227	S228	T229	L230	T231	V232	R233	E234	G235	S236	K237	I238	P239	G240
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● Molecule 5: IcmG (DotF)



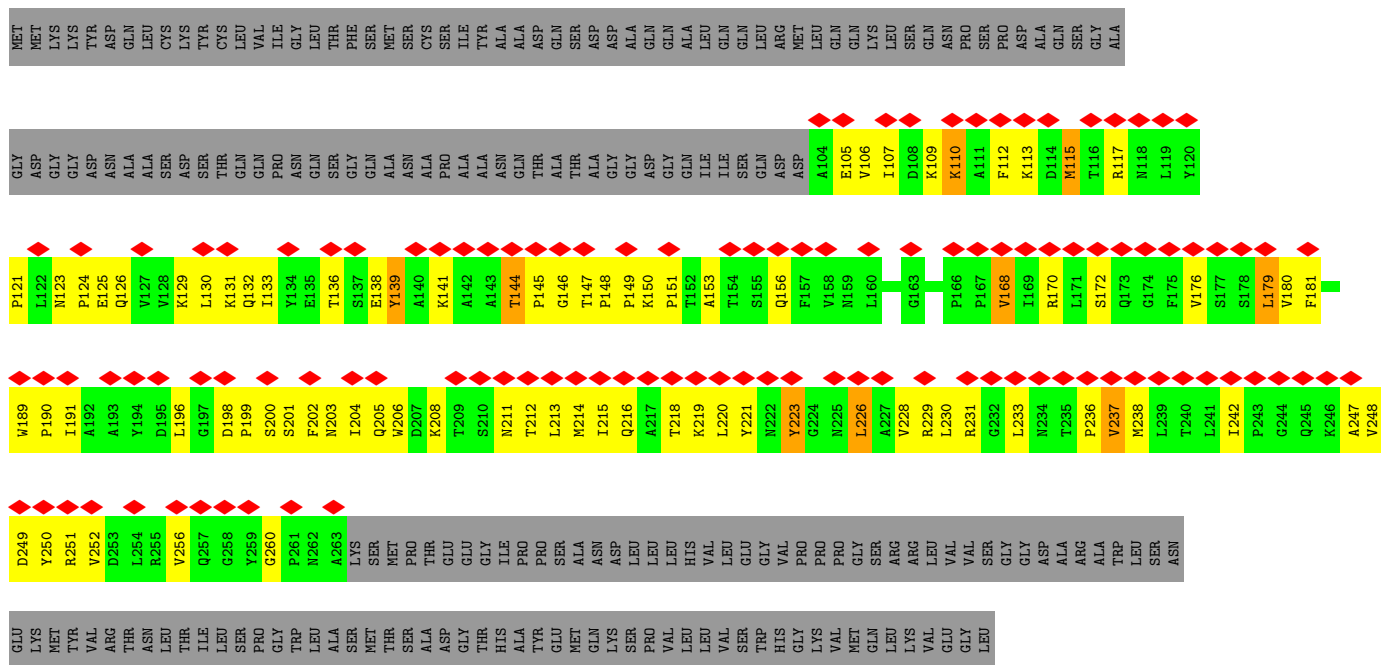
● Molecule 5: IcmG (DotF)



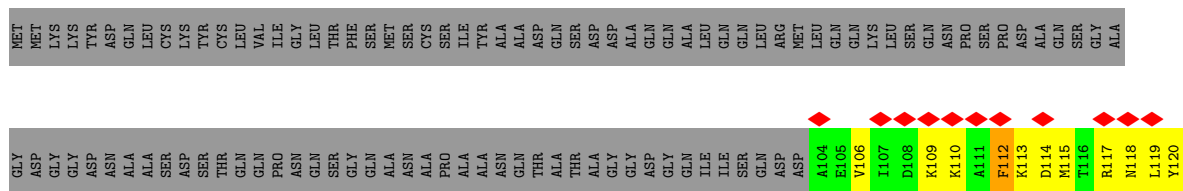
● Molecule 5: IcmG (DotF)

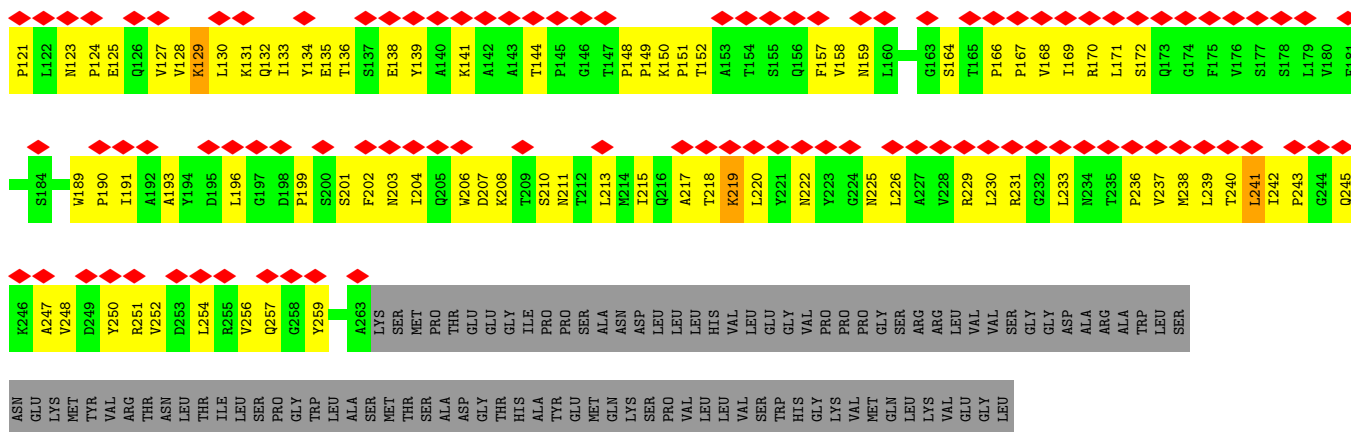


- Molecule 6: IcmK (DotH)

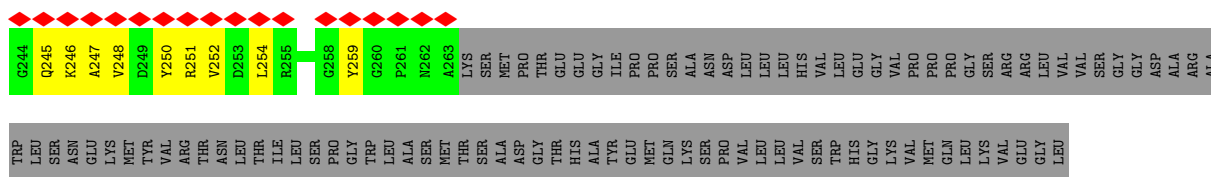
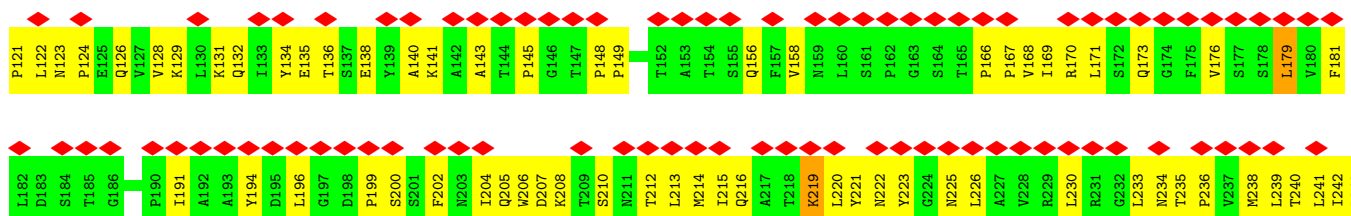
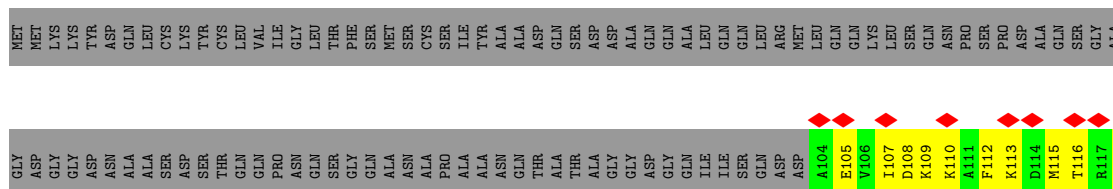


- Molecule 6: IcmK (DotH)

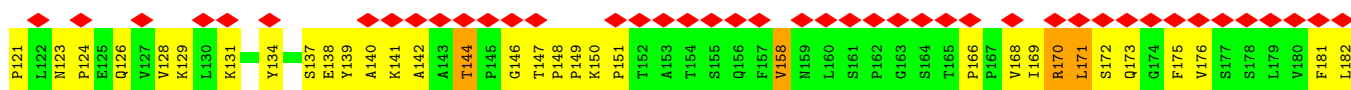
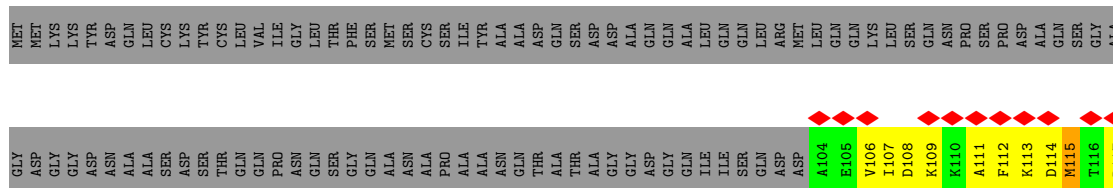




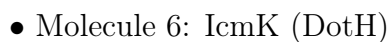
• Molecule 6: IcmK (DotH)

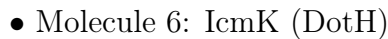
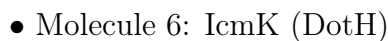


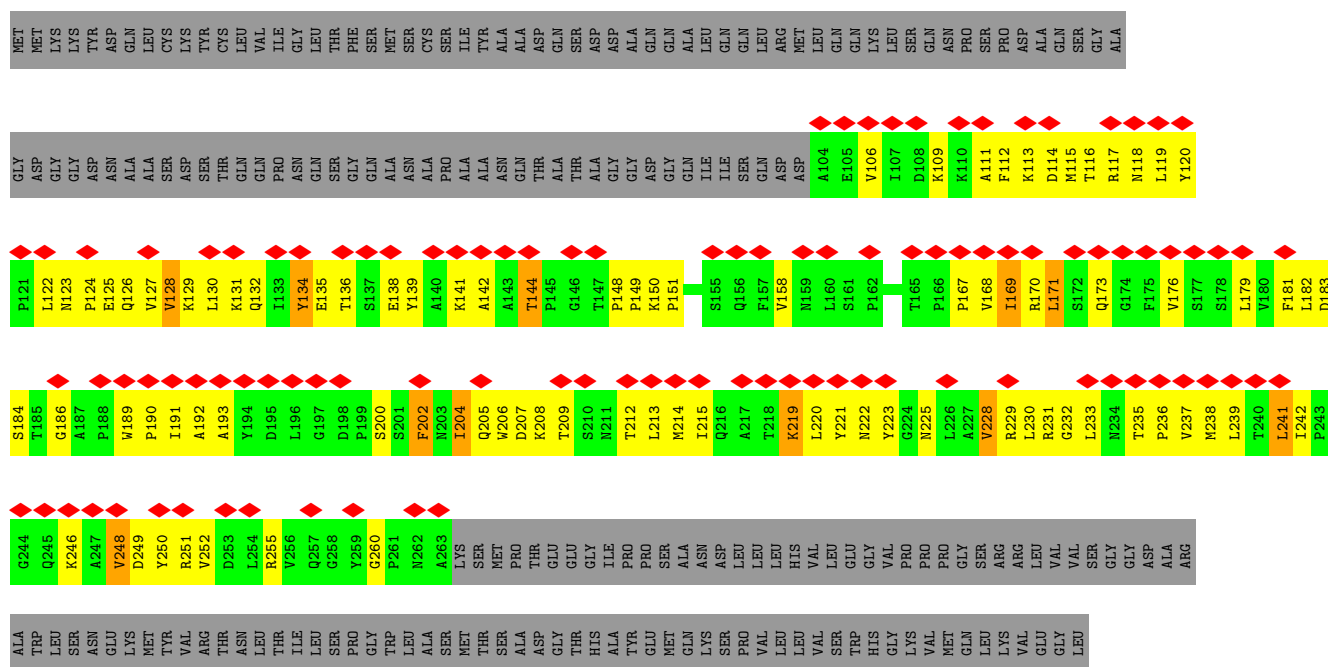
• Molecule 6: IcmK (DotH)



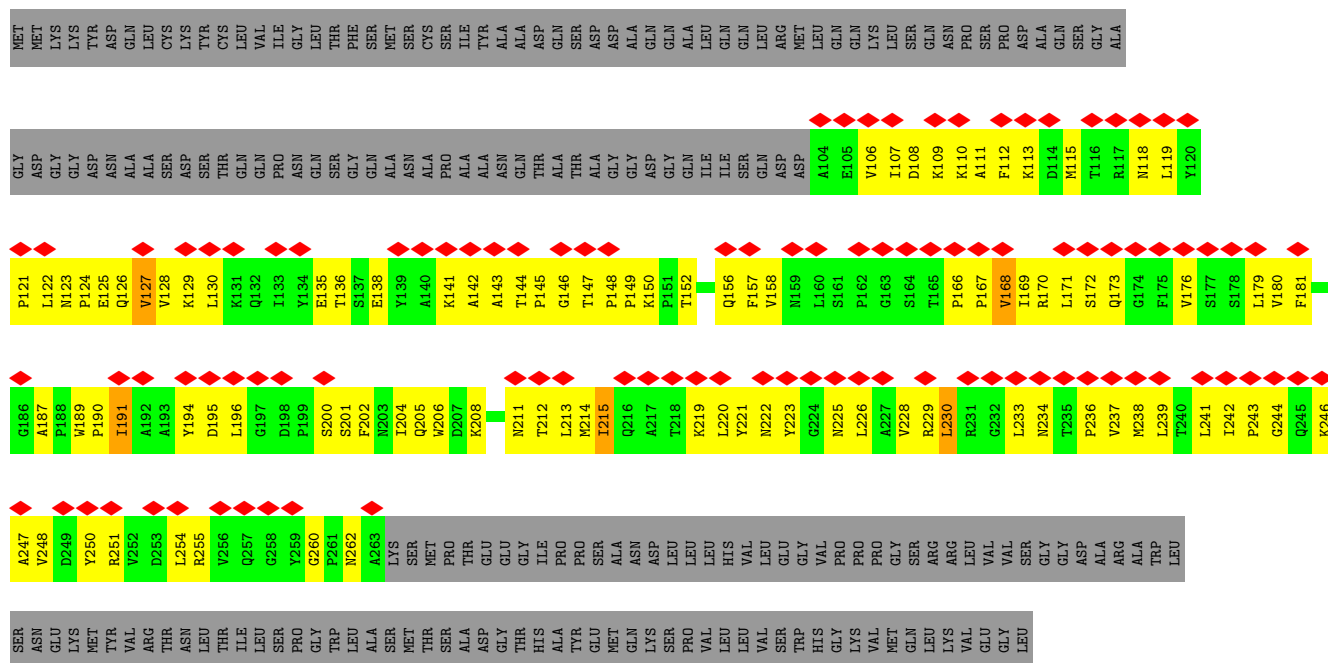
Chain Cn:





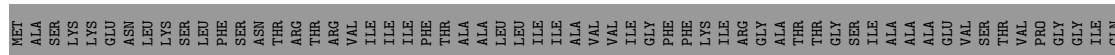


• Molecule 6: IcmK (DotH)



• Molecule 6: IcmK (DotH)





- Molecule 7: IcmE (DotG)



MET	ALA	SER	LYS	GLU	ASN	LEU	SER	PHE	THR	ARG	THR	ARG	VAL	ILE	ILE	PHE	THR	ALA	ALA	LEU	LEU	ILE	ILE	ALA	VAL	VAL	ILE	ILE	GLY	PHE	PHE	LYS	ILE	ALA	ARG	Gly	ALA	THR	THR	GLY	SER	ILE	ALA	ALA	ALA	GLU	VAL	SER	THR	VAL	PRO	GLY	GLY	ILE
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- Molecule 7: IcmE (DotG)



- Molecule 7: IcmE (DotG)

Chain Ei:  . . .



95%

MET	ALA	SER	LYS	GLU	ASN	LEU	LYS	SER	PHE	SER	THR	ARG	THR	ARG	VAL	ILE	ILE	ILE	PHE	THR	ALA	ALA	LEU	LEU	ILE	ILE	ILE	ALA	VAL	VAL	ILE	ILE	GLY	PHE	PHE	LYS	ILE	ILE	ARG	GLY	GLY	ALA	ALA	THR	THR	GLY	SER	SER	ILE	ALA	ALA	ALA	GLU	GLU	VAL	VAL	THR	THR	PRO	GLY	GLY	ILE
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- Molecule 7: IcmE (DotG)



MET	ALA	SER	LYS	GLU	ASN	LEU	LYS	SER	PRE	THR	THR	ARG	VAL	ILE	ILE	ILE	PRE	THR	THR	ALA	ALA	LEU	LEU	ILE	ILE	ILE	GLY	PRE	PRE	LYS	ILE	ARG	GLY	ALA	ALA	THR	THR	GLY	SER	ILE	ILE	ALA	ALA	ALA	GLU	VAL	SER	THR	VAL	PRO	GLY	GLY	ILE	GLN
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- Molecule 7: IcmE (DotG)



MET	ALA	SER	LYS	GLU	ASN	LEU	SER	PHE	ASN	THR	THR	ARG	VAL	ILE	ILE	PHE	THR	ALA	ALA	VAL	VAL	ILE	GLY	PHE	PHE	LYS	ILE	ARG	GLY	ALA	THR	THR	GLY	SER	ILE	ALA	ALA	ALA	GLU	VAL	SER	THR	VAL	VAL	PRO	GLY	GLY	ILE	GLN
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- Molecule 7: IcmE (DotG)

[illegible]







- Molecule 7: IcmE (DotG)



MET	ALA	SER	LYS	GLU	ASN	LEU	SER	PHE	THR	ARG	THR	ARG	VAL	ILE	ILE	PHE	THR	ALA	ALA	VAL	ILE	ILE	GLY	PHE	PHE	LYS	ILE	ILE	ARG	GLY	ALA	ALA	THR	THR	GLY	SER	SER	ILE	ILE	ALA	ALA	GLU	GLU	VAL	VAL	THR	THR	VAL	PRO	GLY	GLY	ILE	ILE	TYP
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- Molecule 7: IcmE (DotG)

MET	ALA	SER	LYS	GLU	ASN	LYS	SER	LEU	PHE	SER	THR	ARG	THR	ARG	VAL	ILE	ILE	PHE	THR	ALA	ALA	LEU	LEU	ILE	ILE	ILE	GLY	PHE	PHE	LYS	ILE	ILE	ARG	GLY	ALA	ALA	THR	THR	GLY	SER	SER	ILE	ILE	ALA	ALA	GLU	GLU	VAL	VAL	SER	THR	VAL	PRO	GLY	GLY	ILE	ILE	TYR
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- Molecule 7: IcmE (DotG)



MET	ALA	SER	LYS	GLU	ASN	LEU	LYS	PHE	SER	THR	ARG	THR	ARG	VAL	ILE	ILE	PHE	THR	ALA	ALA	VAL	VAL	ILE	ILE	PHE	THR	ILE	ILE	LYS	ARG	GLY	ALA	ALA	THR	THR	GLY	SER	SER	ILE	ILE	ALA	ALA	GLU	GLU	VAL	VAL	SER	THR	THR	VAL	PRO	PRO	GLY	GLY	ILE	ILE	TYP
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- Molecule 7: IcmE (DotG)



MET	ALA	SER	LYS	GLU	ASN	LEU	SER	PHE	THR	THR	ARG	VAL	ILE	ILE	PHE	THR	ALA	ALA	VAL	VAL	ILE	GLY	PHE	PHE	LYS	ILE	ARG	GLY	ALA	THR	THR	GLY	SER	ILE	ALA	ALA	ALA	GLU	VAL	SER	THR	VAL	VAL	PRO	GLY	GLY	ILE	GLN
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- Molecule 7: IcmE (DotG)



M1	A2	S3	K4	K5	E6	N7	L8	K9	S10	L11	F12	S13	N14	T15	R16	T17	R18	V19	I20	I21	I22	F23	T24	A25	A26	L27	L28	I29	I30	A31	V32	V33	I34	G35	F36	F37	K38	I39	R40	G41	A42	T43	THR	GLY	SER	ILE	ALA	ALA	ALA	GLU	VAL	VAL	SER	THR	VAL	PRO	GLY	GLY	ILE	ILE
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- Molecule 7: IcmE (DotG)

Chain Fh: 96%



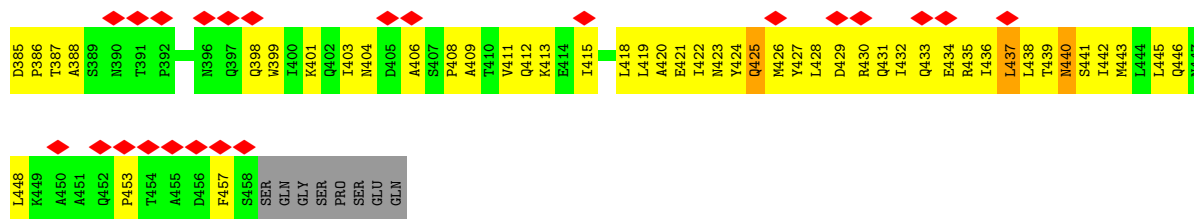
- Molecule 7: IcmE (DotG)



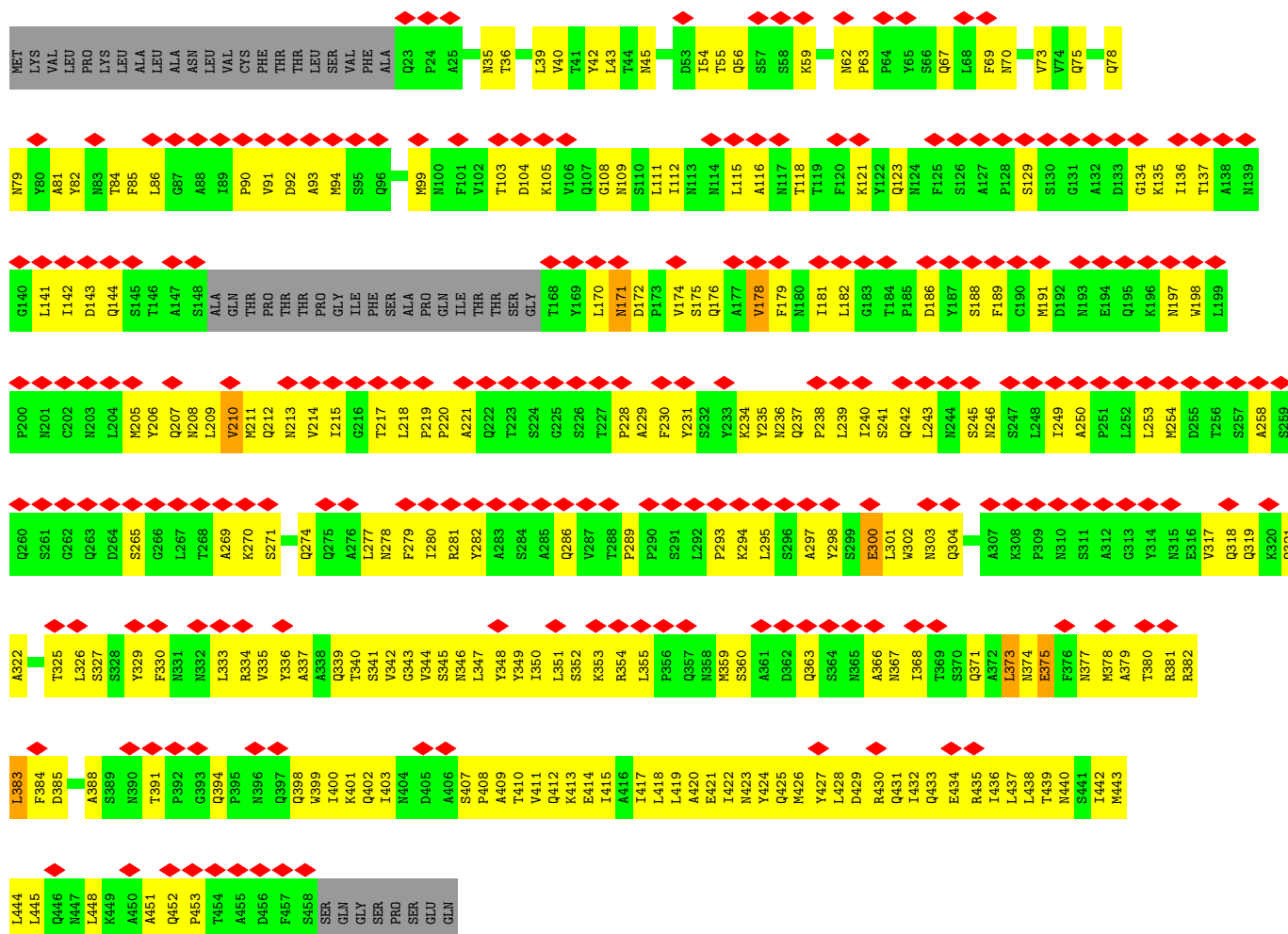
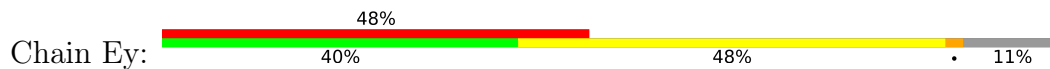
- Molecule 8: IcmX (IcmY)

Category	Percentage
Very bad	52%
Bad	43%
Good	44%
Very good	11%

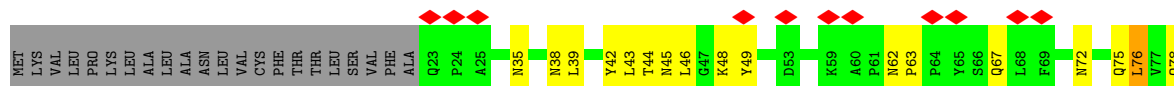


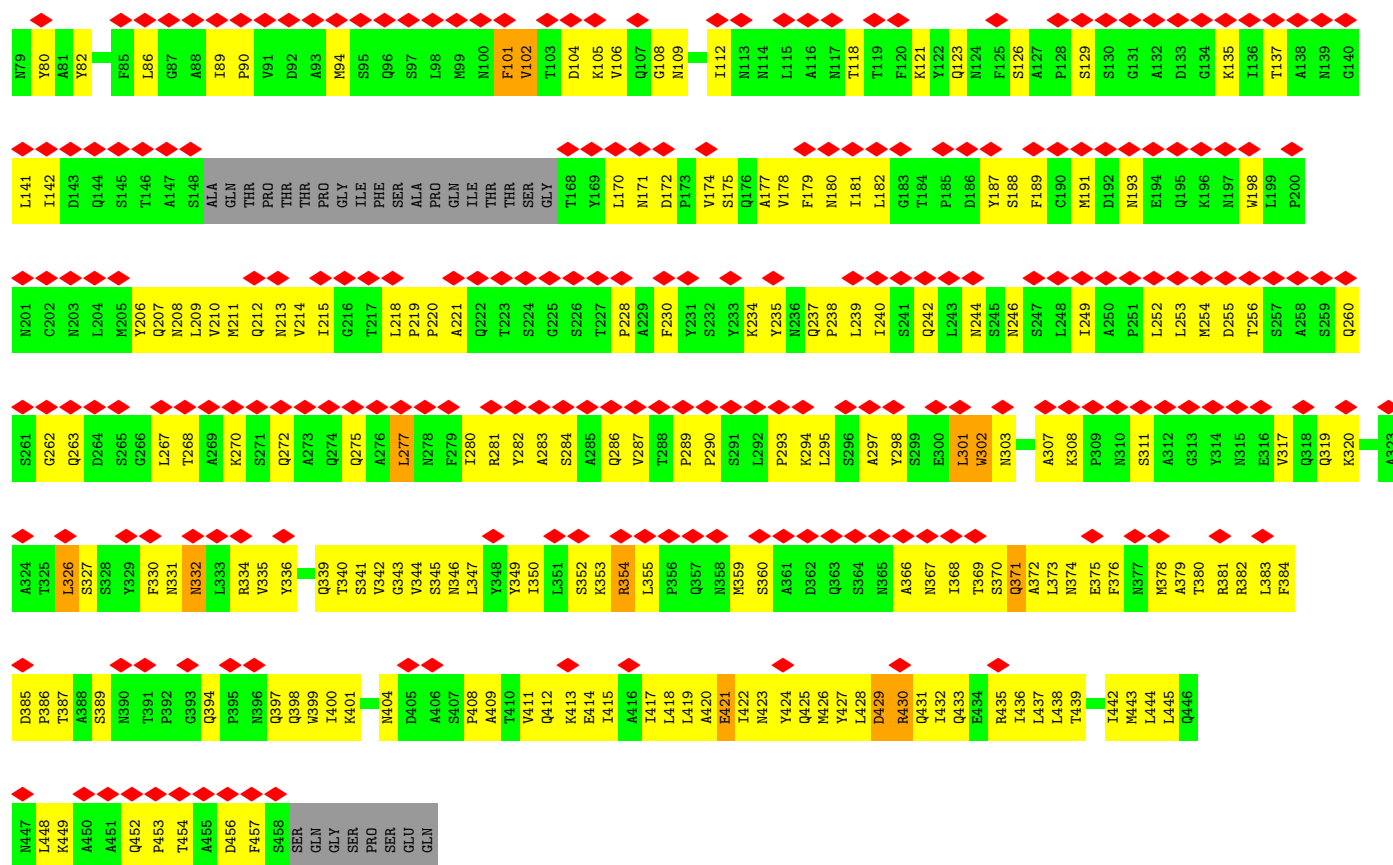


• Molecule 8: IcmX (IcmY)

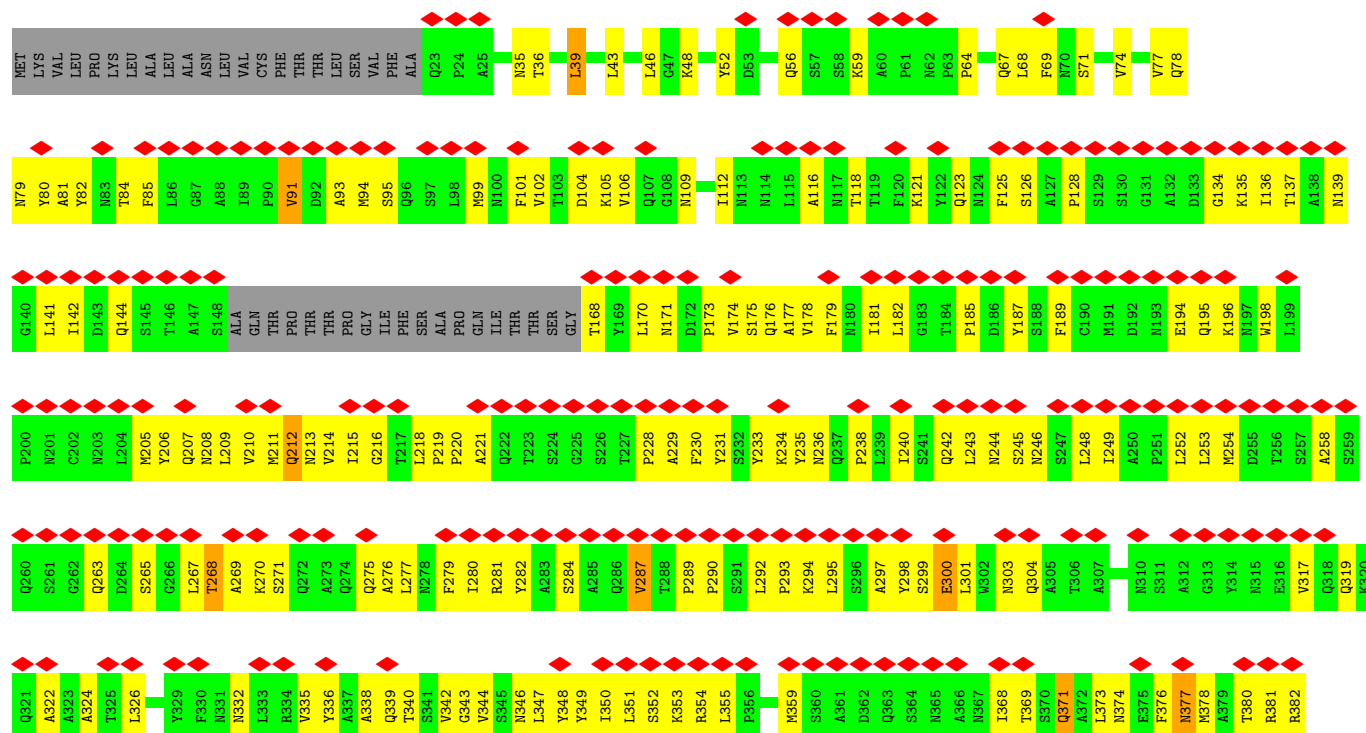


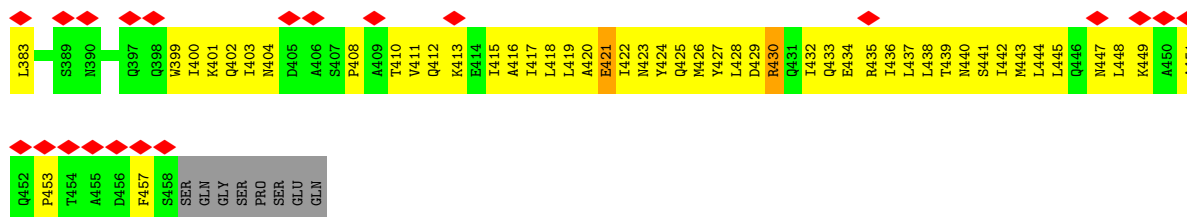
• Molecule 8: IcmX (IcmY)



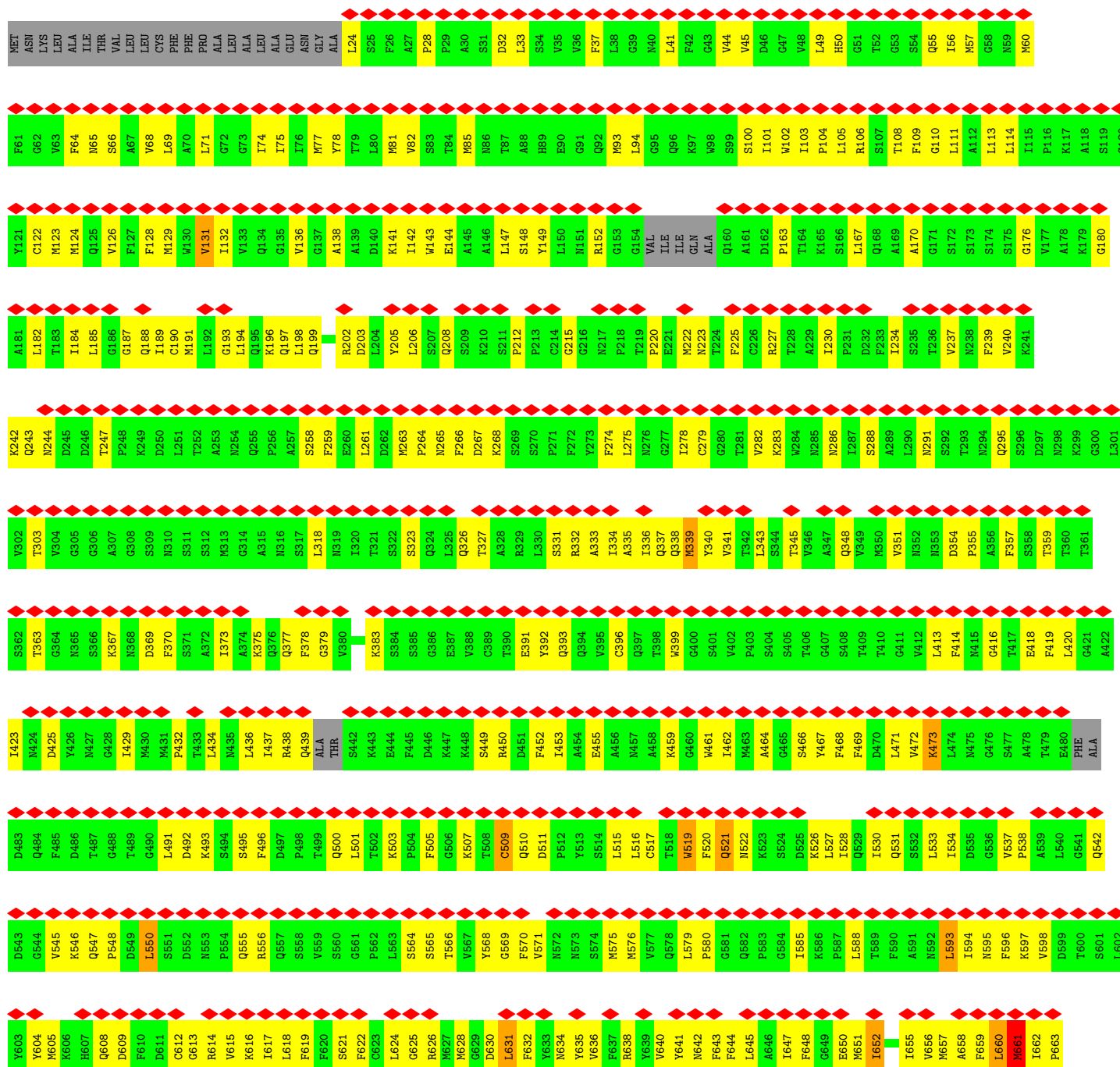
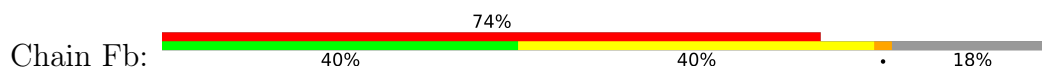


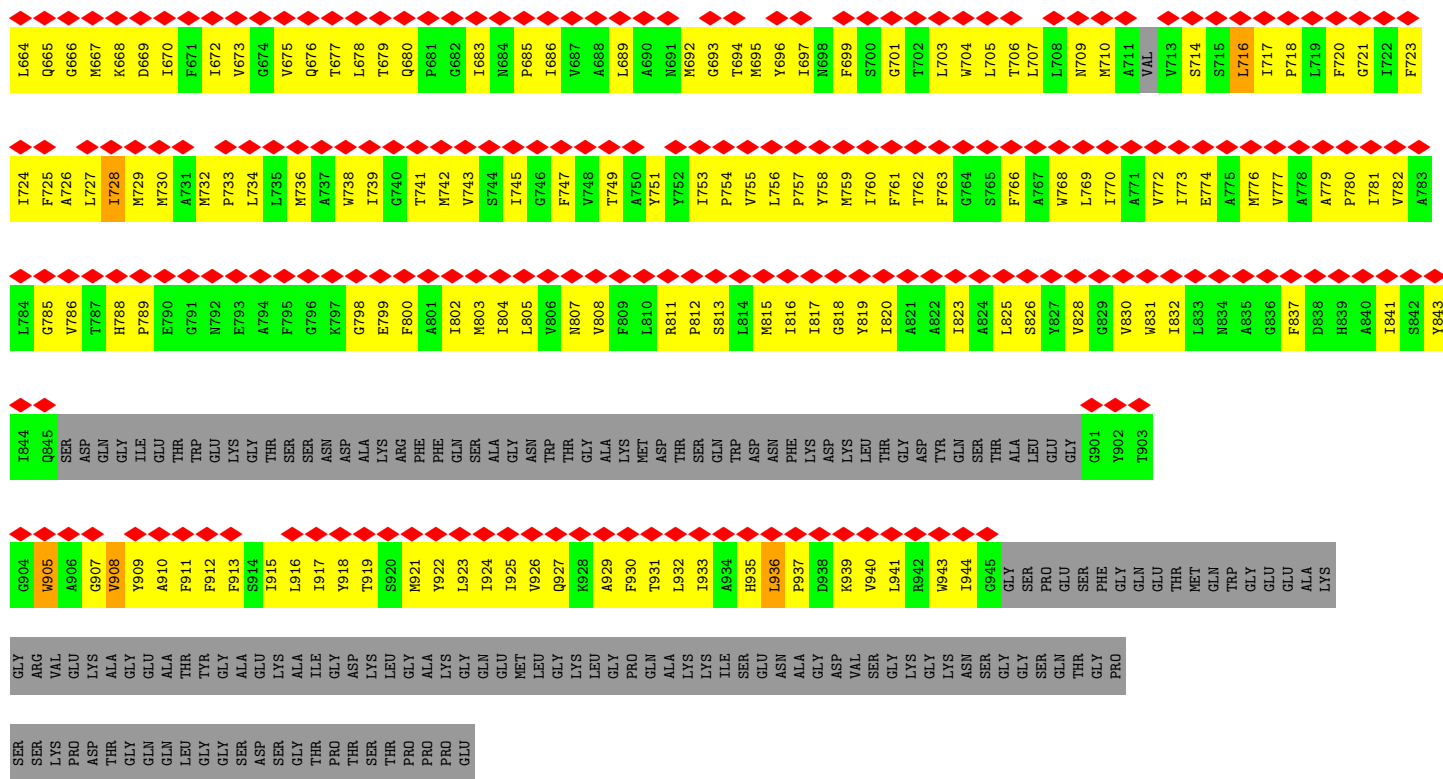
• Molecule 8: IcmX (IcmY)



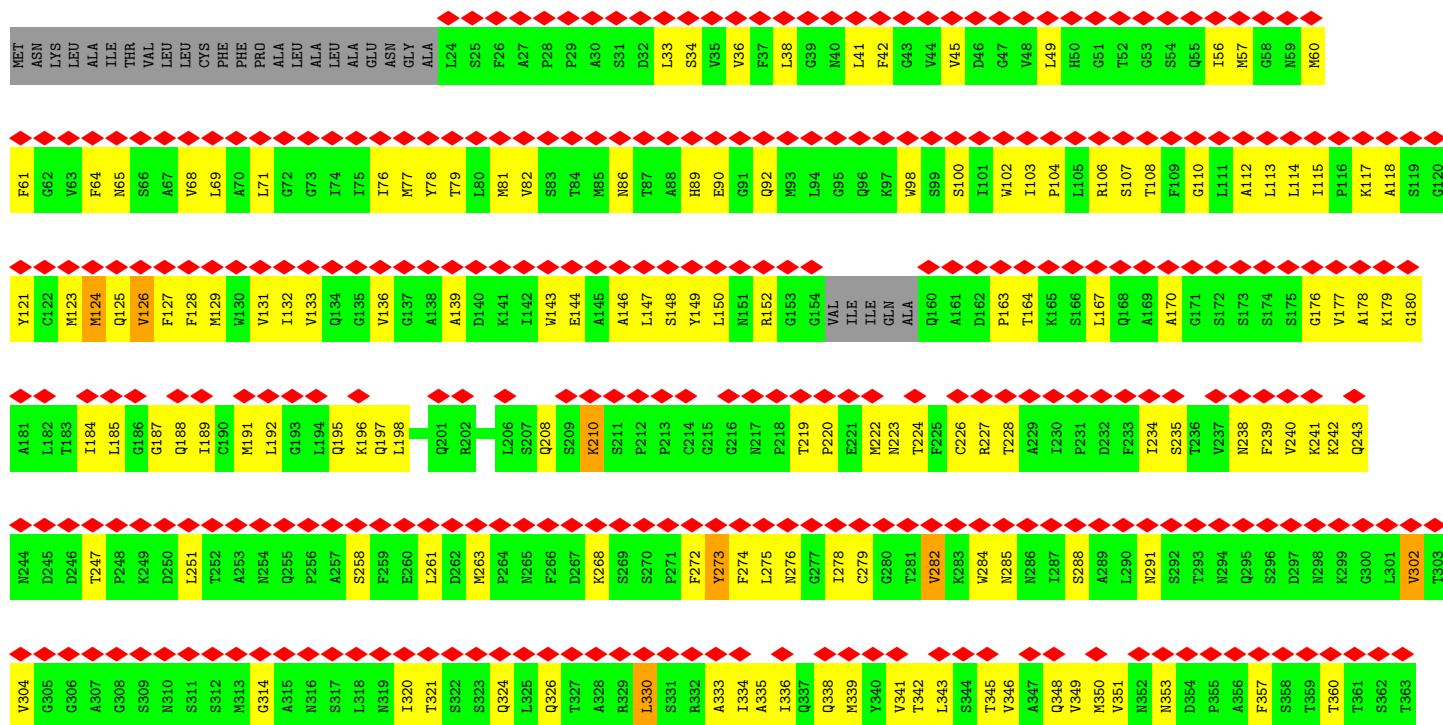
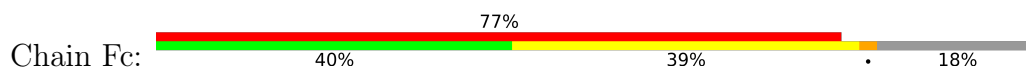


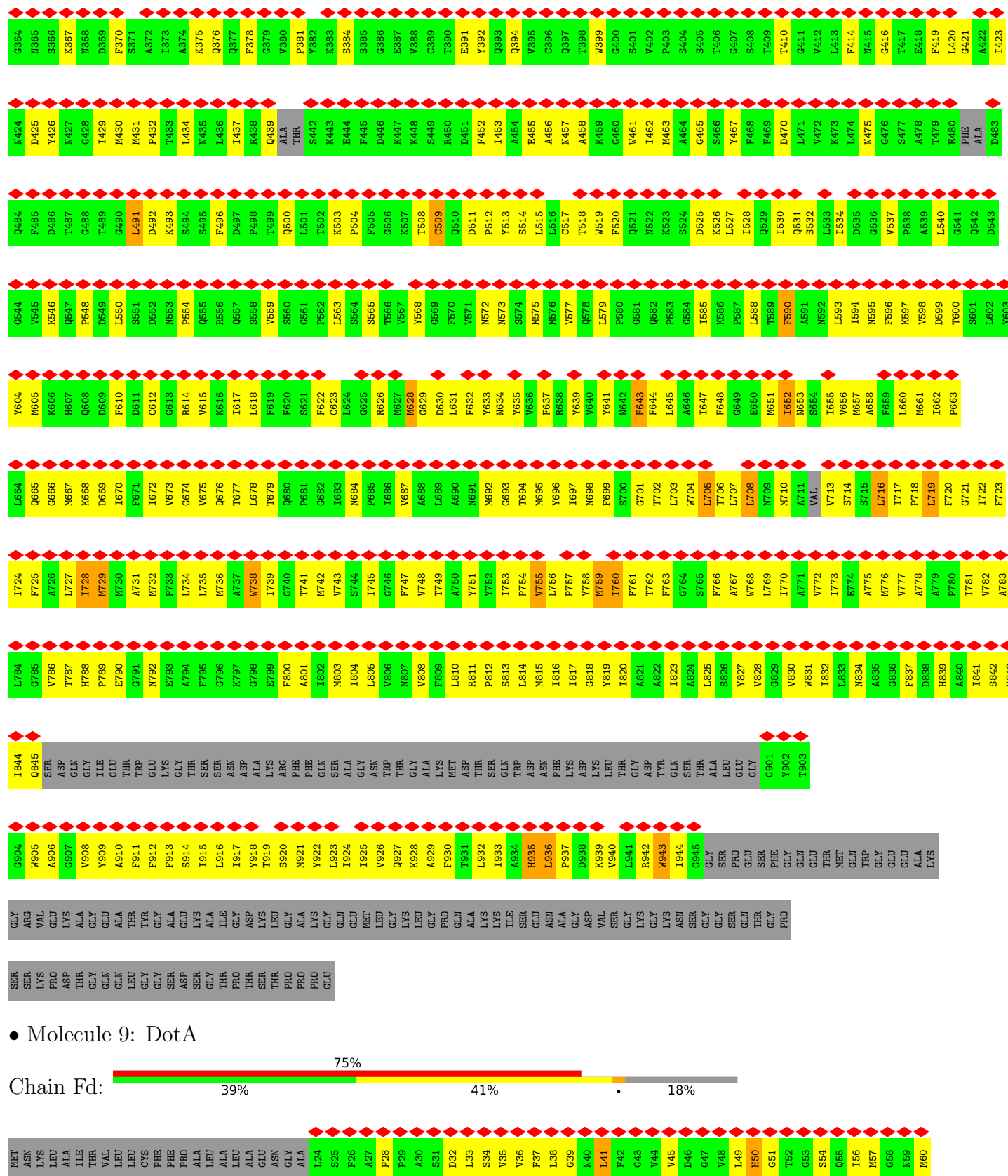
• Molecule 9: DotA





• Molecule 9: DotA





ASP	GLN	GLY	ILE	GLU	THR	TRP	GLU	LYS	GLY	THR	SER	SER	ASN	ASP	ALA	LYS	ARG	PHE	PHE	GLN	SER	ALA	GLY	ASN	TRP	THR	THR	GLY	ALA	LYS	MET	ASP	THR	SER	GLN	TRP	ASP	ASN	PHE	LYS	GLN	ASP	LYS	LEU	THR	GLY	ASP	TYR	GLN	SER	THR	ALA	LEU	GLY	G901	G902	G903	G904	W905	A906																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
T787	H788	P789	E790	G791	N792	E793	A794	F795	G796	K797	G798	E799	F800	A801	I802	M803	M804	L805	V806	M807	V808	F809	L810	R811	S812	S813	L814	M815	L816	I817	G818	Y819	I820	F821	T822	F823	G824	L825	S826	Y827	W828	G829	W830	W831	L832	L833	M834	A835	G836	F837	D838	H839	A840	I841	S842	Y843	L784	G785	V786	SER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
L727	I728	M729	K730	A731	M732	P733	L734	L735	M736	A737	W738	I739	G740	T741	W742	V743	S744	I745	G746	F747	W748	T749	A750	Y751	Y752	I753	P754	Y755	L756	P757	R758	M759	I760	F761	T762	F763	G764	S765	F766	A767	W768	L769	M770	A771	I772	W773	E774	A775	M776	W777	A778	A779	P780	I781	W782	A783	L784	G785	V786																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
H607	Q608	D609	F610	D611	G612	G613	R614	V615	R616	I617	L618	F619	F620	S621	F622	C623	L624	G625	R626	W627	H628	G629	D630	L631	F632	Y633	M634	G635	V636	F637	R638	Y639	V640	Y641	N642	F643	F644	L645	A646	I647	F648	G649	E650	M651	I652	M653	S654	L655	V656	M657	A658	L659	R660	R661	I662	F663	L664	G665	G666																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
M667	K668	D669	I670	F671	I672	M673	G674	V675	D676	T677	L678	T679	Q680	P681	G682	I683	M684	P685	I686	W687	A688	L689	M689	Y691	M692	G693	S813	T694	M695	Y696	P757	R758	M759	S700	G701	T702	W703	L704	L705	T706	L707	W708	W709	M710	A711	VAL	W713	S714	S715	L716	I717	F718	L719	F720	G721	I722	F723	I724	F725	A726																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
L727	I728	M729	K730	A731	M732	P733	L734	L735	M736	A737	W738	I739	G740	T741	W742	V743	S744	I745	G746	F747	W748	T749	A750	Y751	Y752	I753	P754	Y755	L756	P757	R758	M759	I760	F761	T762	F763	G764	S765	F766	A767	W768	L769	M770	A771	I772	W773	E774	A775	M776	W777	A778	A779	P780	I781	W782	A783	L784	G785	V786																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
T787	H788	P789	E790	G791	N792	E793	A794	F795	G796	K797	G798	E799	F800	A801	I802	M803	M804	L805	V806	M807	V808	F809	L810	R811	S812	S813	L814	M815	L816	I817	G818	Y819	I820	F821	T822	F823	G824	L825	S826	Y827	W828	G829	W830	W831	L832	L833	M834	A835	G836	F837	D838	H839	A840	I841	S842	Y843	L784	G785	V786	SER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Y121	C122	M123	M124	Q125	V126	F127	Q128	F128	M129	W130	V131	I132	V133	Q134	G135	V136	G137	A138	A139	D140	K141	I142	W143	A144	A145	A146	L147	S148	Y149	L150	N151	R152	Q153	G154	VAL	ILE	ILE	GLN	Q160	A161	D162	P163	T164	K165	S166	L167	Q168	A169	A170	G171	S172	S173	S174	S175	G176	V177	A178	K179	G180																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
A181	L182	M183	I184	L185	G186	G187	Q188	Q188	I189	G190	G190	M191	L192	G193	S317	A194	Q195	K196		Q199																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	37503	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TECNAI 12	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	73	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.434	Depositor
Minimum map value	-0.283	Depositor
Average map value	0.002	Depositor
Map value standard deviation	0.022	Depositor
Recommended contour level	0.16	Depositor
Map size ($\text{\AA}$)	640.8192, 640.8192, 640.8192	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.2516, 1.2516, 1.2516	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Aa	0.11	0/118	0.44	0/158
1	Ag	0.18	0/118	0.64	0/158
1	Am	0.14	0/118	0.40	0/158
1	As	0.15	0/118	0.38	0/158
1	Ay	0.12	0/118	0.44	0/158
1	Be	0.14	0/118	0.43	0/158
1	Bk	0.13	0/118	0.52	0/158
1	Bq	0.11	0/118	0.42	0/158
1	Bw	0.16	0/118	0.45	0/158
1	Cc	0.13	0/118	0.40	0/158
1	Ci	0.13	0/118	0.47	0/158
1	Co	0.16	0/118	0.69	0/158
1	Cu	0.09	0/118	0.37	0/158
1	Da	0.16	0/118	0.63	0/158
1	Dg	0.16	0/118	0.68	0/158
1	Dm	0.13	0/118	0.49	0/158
1	Ds	0.13	0/118	0.50	0/158
1	Dy	0.13	0/118	0.50	0/158
2	Ab	0.34	0/60	0.53	0/76
2	Ah	0.27	0/60	0.60	0/76
2	An	0.59	0/60	1.04	0/76
2	At	0.20	0/60	0.56	0/76
2	Az	0.23	0/60	0.56	0/76
2	Bf	0.21	0/60	0.44	0/76
2	Bl	0.31	0/60	0.81	0/76
2	Br	0.40	0/60	0.89	0/76
2	Bx	0.21	0/60	0.71	0/76
2	Cd	0.28	0/60	0.61	0/76
2	Cj	0.28	0/60	0.62	0/76
2	Cp	0.24	0/60	0.45	0/76
2	Cv	0.19	0/60	0.43	0/76
2	Db	0.24	0/60	0.63	0/76
2	Dh	0.45	0/60	0.69	0/76
2	Dn	0.30	0/60	0.61	0/76

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	Dt	0.28	0/60	0.67	0/76
2	Dz	0.21	0/60	0.40	0/76
3	Ac	0.10	0/126	0.29	0/167
3	Ai	0.17	0/126	0.44	0/167
3	Ao	0.18	0/126	0.43	0/167
3	Au	0.13	0/126	0.36	0/167
3	Ba	0.13	0/126	0.37	0/167
3	Bg	0.13	0/126	0.33	0/167
3	Bm	0.17	0/126	0.49	0/167
3	Bs	0.15	0/126	0.34	0/167
3	By	0.12	0/126	0.36	0/167
3	Ce	0.13	0/126	0.39	0/167
3	Ck	0.13	0/126	0.38	0/167
3	Cq	0.15	0/126	0.47	0/167
3	Cw	0.13	0/126	0.39	0/167
3	Dc	0.13	0/126	0.40	0/167
3	Di	0.14	0/126	0.48	0/167
3	Do	0.12	0/126	0.33	0/167
3	Du	0.17	0/126	0.52	0/167
3	Ea	0.11	0/126	0.50	0/167
4	Ad	0.12	0/37	0.22	0/47
4	Aj	0.11	0/37	0.26	0/47
4	Ap	0.14	0/37	0.34	0/47
4	Av	0.09	0/37	0.19	0/47
4	Bb	0.20	0/37	0.39	0/47
4	Bh	0.11	0/37	0.23	0/47
4	Bn	0.11	0/37	0.25	0/47
4	Bt	0.12	0/37	0.31	0/47
4	Bz	0.14	0/37	0.27	0/47
4	Cf	0.17	0/37	0.40	0/47
4	Cl	0.09	0/37	0.20	0/47
4	Cr	0.08	0/37	0.18	0/47
4	Cx	0.12	0/37	0.22	0/47
4	Dd	0.20	0/37	0.45	0/47
4	Dj	0.09	0/37	0.22	0/47
4	Dp	0.08	0/37	0.23	0/47
4	Dv	0.12	0/37	0.18	0/47
4	Eb	0.13	0/37	0.30	0/47
5	Ae	0.20	0/491	0.58	0/660
5	Ak	0.21	0/491	0.59	0/660
5	Aq	0.17	0/491	0.46	0/660
5	Aw	0.20	0/491	0.54	0/660
5	Bc	0.23	0/491	0.61	0/660

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
5	Bi	0.18	0/491	0.57	0/660
5	Bo	0.24	0/491	0.63	0/660
5	Bu	0.18	0/491	0.52	0/660
5	Ca	0.18	0/491	0.53	0/660
5	Cg	0.20	0/491	0.45	0/660
5	Cm	0.23	0/491	0.67	0/660
5	Cs	0.25	0/491	0.68	0/660
5	Cy	0.19	0/491	0.48	0/660
5	De	0.22	0/491	0.62	0/660
5	Dk	0.21	0/491	0.60	0/660
5	Dq	0.19	0/491	0.61	0/660
5	Dw	0.18	0/491	0.47	0/660
5	Ec	0.16	0/491	0.46	0/660
6	Af	0.27	0/1269	0.74	7/1734 (0.4%)
6	Al	0.26	0/1269	0.63	0/1734
6	Ar	0.26	0/1269	0.67	0/1734
6	Ax	0.27	0/1269	0.64	3/1734 (0.2%)
6	Bd	0.23	0/1269	0.59	0/1734
6	Bj	0.24	0/1269	0.65	0/1734
6	Bp	0.27	0/1269	0.76	0/1734
6	Bv	0.28	0/1269	0.68	1/1734 (0.1%)
6	Cb	0.23	0/1269	0.64	1/1734 (0.1%)
6	Ch	0.25	0/1269	0.65	2/1734 (0.1%)
6	Cn	0.28	0/1269	0.71	4/1734 (0.2%)
6	Ct	0.25	0/1269	0.64	2/1734 (0.1%)
6	Cz	0.26	0/1269	0.68	1/1734 (0.1%)
6	Df	0.30	0/1269	0.75	4/1734 (0.2%)
6	Dl	0.27	0/1269	0.69	0/1734
6	Dr	0.30	0/1269	0.80	2/1734 (0.1%)
6	Dx	0.26	0/1269	0.82	6/1734 (0.3%)
6	Ed	0.26	0/1269	0.63	0/1734
7	Ee	0.25	0/278	0.71	0/377
7	Ef	0.25	0/475	0.83	0/642
7	Eg	0.32	0/278	0.98	0/377
7	Eh	0.26	0/400	0.75	0/540
7	Ei	0.29	0/405	0.97	1/547 (0.2%)
7	Ej	0.35	0/467	1.14	4/631 (0.6%)
7	Ek	0.26	0/278	0.75	0/377
7	El	0.28	0/278	0.86	0/377
7	Em	0.35	0/384	0.99	1/518 (0.2%)
7	En	0.29	0/278	0.96	2/377 (0.5%)
7	Eo	0.27	0/278	0.83	1/377 (0.3%)
7	Ep	0.31	0/278	0.79	0/377

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	Eq	0.30	0/462	1.04	3/624 (0.5%)
7	Er	0.36	0/278	1.07	3/377 (0.8%)
7	Es	0.28	0/457	0.88	0/617
7	Et	0.26	0/400	0.85	1/540 (0.2%)
7	Eu	0.28	0/475	0.90	2/642 (0.3%)
7	Ev	0.33	0/278	1.07	2/377 (0.5%)
7	Fg	0.25	0/337	0.74	0/451
7	Fh	0.19	0/337	0.72	1/451 (0.2%)
7	Fi	0.20	0/337	0.68	1/451 (0.2%)
7	Fj	0.19	0/337	0.68	0/451
7	Fk	0.17	0/337	0.49	0/451
8	Ew	0.25	0/3277	0.65	1/4473 (0.0%)
8	Ex	0.24	0/3277	0.64	1/4473 (0.0%)
8	Ey	0.26	0/3277	0.64	0/4473
8	Ez	0.25	0/3277	0.66	6/4473 (0.1%)
8	Fa	0.28	0/3277	0.70	3/4473 (0.1%)
9	Fb	0.23	0/6715	0.65	2/9115 (0.0%)
9	Fc	0.23	0/6715	0.61	4/9115 (0.0%)
9	Fd	0.23	0/6715	0.66	3/9115 (0.0%)
9	Fe	0.23	0/6715	0.65	5/9115 (0.1%)
9	Ff	0.23	0/6715	0.63	1/9115 (0.0%)
All	All	0.24	0/95890	0.66	81/130045 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
6	Al	0	1
6	Ar	0	1
6	Bp	0	1
6	Bv	0	1
6	Ch	0	1
6	Ct	0	1
6	Df	0	1
6	Dl	0	1
6	Dx	0	1
7	Ej	0	1
7	En	0	1
7	Eq	0	1
7	Er	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
8	Fa	0	1
9	Fb	0	1
9	Fe	0	1
All	All	0	16

There are no bond length outliers.

All (81) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Ej	802	LEU	CA-CB-CG	9.24	148.64	116.30
7	Et	801	MET	CB-CG-SD	8.93	139.50	112.70
6	Af	110	LYS	CA-CB-CG	8.64	131.37	114.10
6	Df	146	GLY	CA-C-N	-8.61	104.57	120.94
6	Df	146	GLY	C-N-CA	-8.61	104.57	120.94
7	Eq	783	GLU	CA-CB-CG	7.80	129.70	114.10
6	Af	115	MET	CB-CG-SD	-7.73	89.50	112.70
9	Ff	77	MET	CA-CB-CG	7.23	128.56	114.10
7	Ei	802	LEU	CA-CB-CG	7.21	141.55	116.30
9	Fb	521	GLN	CA-CB-CG	7.07	128.23	114.10
6	Af	110	LYS	CB-CG-CD	6.71	126.74	111.30
8	Ez	354	ARG	CA-C-N	-6.55	108.11	121.48
8	Ez	354	ARG	C-N-CA	-6.55	108.11	121.48
8	Ew	383	LEU	CA-CB-CG	6.47	138.96	116.30
6	Dr	146	GLY	CA-C-N	-6.39	112.11	120.67
6	Dr	146	GLY	C-N-CA	-6.39	112.11	120.67
7	Eq	802	LEU	CA-CB-CG	6.20	138.00	116.30
6	Ch	146	GLY	CA-C-N	-6.16	111.74	120.49
6	Ch	146	GLY	C-N-CA	-6.16	111.74	120.49
7	Em	802	LEU	CA-CB-CG	6.15	137.83	116.30
7	Eu	802	LEU	CA-CB-CG	6.14	137.80	116.30
6	Df	115	MET	CG-SD-CE	-6.08	87.53	100.90
7	Fh	38	LYS	CA-CB-CG	6.02	126.14	114.10
8	Ez	421	GLU	CA-CB-CG	5.90	125.91	114.10
7	Ej	801	MET	CA-CB-CG	5.90	125.90	114.10
6	Cn	146	GLY	CA-C-N	-5.80	104.49	120.97
6	Cn	146	GLY	C-N-CA	-5.80	104.49	120.97
7	Eq	773	GLN	CA-CB-CG	5.79	125.67	114.10
6	Dx	114	ASP	CA-C-N	-5.77	110.90	121.52
6	Dx	114	ASP	C-N-CA	-5.77	110.90	121.52
6	Ax	115	MET	CG-SD-CE	-5.72	88.33	100.90
6	Dx	139	TYR	CA-CB-CG	5.71	124.18	113.90
6	Af	110	LYS	N-CA-CB	5.66	118.22	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	Dx	146	GLY	CA-C-N	-5.66	110.19	120.94
6	Dx	146	GLY	C-N-CA	-5.66	110.19	120.94
7	Ej	780	LYS	CA-CB-CG	5.58	125.25	114.10
6	Af	110	LYS	CG-CD-CE	-5.54	98.55	111.30
9	Fe	916	LEU	CA-CB-CG	5.53	135.67	116.30
6	Bv	139	TYR	CA-CB-CG	5.53	123.86	113.90
6	Cb	119	LEU	CA-CB-CG	5.51	135.58	116.30
9	Fd	928	LYS	CA-CB-CG	5.47	125.04	114.10
8	Ez	430	ARG	N-CA-CB	5.47	118.76	110.28
6	Cn	115	MET	CG-SD-CE	-5.46	88.88	100.90
8	Fa	39	LEU	CA-CB-CG	5.46	135.43	116.30
9	Fe	728	ILE	CA-C-N	-5.46	112.54	120.29
9	Fe	728	ILE	C-N-CA	-5.46	112.54	120.29
8	Ex	215	ILE	CB-CA-C	-5.45	104.88	112.02
6	Cn	115	MET	CA-CB-CG	-5.43	103.24	114.10
6	Ct	146	GLY	CA-C-N	-5.39	113.45	120.67
6	Ct	146	GLY	C-N-CA	-5.39	113.45	120.67
9	Fc	708	LEU	CA-CB-CG	5.34	135.00	116.30
9	Fb	661	MET	CA-CB-CG	5.32	124.73	114.10
8	Fa	430	ARG	CB-CG-CD	-5.29	99.13	111.30
8	Ez	429	ASP	CA-C-N	-5.28	112.28	120.31
8	Ez	429	ASP	C-N-CA	-5.28	112.28	120.31
7	Ev	795	GLN	CA-C-N	-5.28	112.28	120.31
7	Ev	795	GLN	C-N-CA	-5.28	112.28	120.31
7	Eo	802	LEU	CA-CB-CG	5.26	134.70	116.30
6	Df	125	GLU	CA-CB-CG	5.25	124.61	114.10
7	Ej	801	MET	CB-CA-C	5.20	119.51	110.72
9	Fe	77	MET	CA-CB-CG	5.19	124.48	114.10
7	Fi	27	LEU	CA-CB-CG	5.17	134.39	116.30
7	Eu	789	LYS	CA-CB-CG	5.15	124.40	114.10
9	Fe	191	MET	CA-CB-CG	5.15	124.41	114.10
6	Ax	146	GLY	CA-C-N	-5.13	111.19	120.94
6	Ax	146	GLY	C-N-CA	-5.13	111.19	120.94
9	Fc	742	MET	CB-CG-SD	5.12	128.07	112.70
7	En	800	ASP	CA-C-N	-5.11	113.77	122.56
7	En	800	ASP	C-N-CA	-5.11	113.77	122.56
9	Fc	628	MET	CB-CG-SD	5.11	128.03	112.70
6	Af	146	GLY	CA-C-N	5.10	133.34	122.17
6	Af	146	GLY	C-N-CA	5.10	133.34	122.17
9	Fd	742	MET	CB-CG-SD	5.09	127.97	112.70
9	Fc	719	LEU	N-CA-CB	-5.08	108.38	114.17
6	Dx	251	ARG	CA-CB-CG	5.07	124.25	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Er	809	VAL	CA-C-N	-5.07	113.83	122.56
7	Er	809	VAL	C-N-CA	-5.07	113.83	122.56
8	Fa	212	GLN	CA-CB-CG	5.05	124.20	114.10
7	Er	802	LEU	CA-CB-CG	5.04	133.93	116.30
9	Fd	916	LEU	CA-CB-CG	5.04	133.92	116.30
6	Cz	105	GLU	CA-CB-CG	5.01	124.12	114.10

There are no chirality outliers.

All (16) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
6	Al	219	LYS	Peptide
6	Ar	219	LYS	Peptide
6	Bp	238	MET	Peptide
6	Bv	214	MET	Peptide
6	Ch	219	LYS	Peptide
6	Ct	219	LYS	Peptide
6	Df	117	ARG	Sidechain
6	Dl	219	LYS	Peptide
6	Dx	117	ARG	Sidechain
7	Ej	801	MET	Peptide
7	En	797	ARG	Sidechain
7	Eq	801	MET	Peptide
7	Er	810	GLN	Peptide
8	Fa	377	ASN	Peptide
9	Fb	661	MET	Peptide
9	Fe	730	MET	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Aa	117	0	111	7	0
1	Ag	117	0	111	10	0
1	Am	117	0	111	16	0
1	As	117	0	111	6	0
1	Ay	117	0	111	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Be	117	0	111	6	0
1	Bk	117	0	111	11	0
1	Bq	117	0	111	9	0
1	Bw	117	0	111	6	0
1	Cc	117	0	111	10	0
1	Ci	117	0	111	12	0
1	Co	117	0	111	8	0
1	Cu	117	0	111	6	0
1	Da	117	0	111	7	0
1	Dg	117	0	111	9	0
1	Dm	117	0	111	10	0
1	Ds	117	0	111	8	0
1	Dy	117	0	111	5	0
2	Ab	61	0	65	9	0
2	Ah	61	0	65	8	0
2	An	61	0	65	12	0
2	At	61	0	65	7	0
2	Az	61	0	65	10	0
2	Bf	61	0	65	12	0
2	Bl	61	0	65	9	0
2	Br	61	0	65	11	0
2	Bx	61	0	65	6	0
2	Cd	61	0	65	9	0
2	Cj	61	0	65	4	0
2	Cp	61	0	65	7	0
2	Cv	61	0	65	10	0
2	Db	61	0	65	9	0
2	Dh	61	0	65	10	0
2	Dn	61	0	65	10	0
2	Dt	61	0	65	7	0
2	Dz	61	0	65	7	0
3	Ac	125	0	126	9	0
3	Ai	125	0	126	11	0
3	Ao	125	0	126	17	0
3	Au	125	0	126	9	0
3	Ba	125	0	126	9	0
3	Bg	125	0	126	9	0
3	Bm	125	0	126	14	0
3	Bs	125	0	126	15	0
3	By	125	0	126	6	0
3	Ce	125	0	126	9	0
3	Ck	125	0	126	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	Cq	125	0	126	10	0
3	Cw	125	0	126	9	0
3	Dc	125	0	126	5	0
3	Di	125	0	126	8	0
3	Do	125	0	126	15	0
3	Du	125	0	126	13	0
3	Ea	125	0	126	9	0
4	Ad	36	0	30	2	0
4	Aj	36	0	30	4	0
4	Ap	36	0	30	5	0
4	Av	36	0	30	2	0
4	Bb	36	0	30	2	0
4	Bh	36	0	30	5	0
4	Bn	36	0	30	3	0
4	Bt	36	0	30	4	0
4	Bz	36	0	30	2	0
4	Cf	36	0	30	3	0
4	Cl	36	0	30	3	0
4	Cr	36	0	30	2	0
4	Cx	36	0	30	1	0
4	Dd	36	0	30	5	0
4	Dj	36	0	30	2	0
4	Dp	36	0	30	3	0
4	Dv	36	0	30	2	0
4	Eb	36	0	30	1	0
5	Ae	484	0	502	41	0
5	Ak	484	0	502	31	0
5	Aq	484	0	502	33	0
5	Aw	484	0	502	22	0
5	Bc	484	0	502	41	0
5	Bi	484	0	502	37	0
5	Bo	484	0	502	42	0
5	Bu	484	0	502	31	0
5	Ca	484	0	502	37	0
5	Cg	484	0	502	33	0
5	Cm	484	0	502	29	0
5	Cs	484	0	502	25	0
5	Cy	484	0	502	29	0
5	De	484	0	502	35	0
5	Dk	484	0	502	48	0
5	Dq	484	0	502	32	0
5	Dw	484	0	502	25	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Ec	484	0	502	23	0
6	Af	1238	0	1252	108	0
6	Al	1238	0	1252	113	0
6	Ar	1238	0	1252	143	0
6	Ax	1238	0	1252	110	0
6	Bd	1238	0	1252	120	0
6	Bj	1238	0	1252	125	0
6	Bp	1238	0	1252	133	0
6	Bv	1238	0	1252	120	0
6	Cb	1238	0	1252	113	0
6	Ch	1238	0	1252	109	0
6	Cn	1238	0	1252	119	0
6	Ct	1238	0	1252	117	0
6	Cz	1238	0	1252	129	0
6	Df	1238	0	1252	126	0
6	Dl	1238	0	1252	129	0
6	Dr	1238	0	1252	134	0
6	Dx	1238	0	1252	121	0
6	Ed	1238	0	1252	121	0
7	Ee	276	0	263	24	0
7	Ef	472	0	453	48	0
7	Eg	276	0	263	30	0
7	Eh	397	0	386	36	0
7	Ei	402	0	391	45	0
7	Ej	464	0	449	53	0
7	Ek	276	0	263	30	0
7	El	276	0	263	36	0
7	Em	381	0	364	56	0
7	En	276	0	263	42	0
7	Eo	276	0	263	40	0
7	Ep	276	0	263	32	0
7	Eq	459	0	444	54	0
7	Er	276	0	263	33	0
7	Es	454	0	439	53	0
7	Et	397	0	386	51	0
7	Eu	472	0	453	37	0
7	Ev	276	0	263	43	0
7	Fg	334	0	378	24	0
7	Fh	334	0	378	26	0
7	Fi	334	0	378	21	0
7	Fj	334	0	378	19	0
7	Fk	334	0	378	17	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	Ew	3213	0	3131	301	0
8	Ex	3213	0	3131	272	0
8	Ey	3213	0	3131	328	0
8	Ez	3213	0	3131	296	0
8	Fa	3213	0	3131	291	0
9	Fb	6560	0	6545	450	0
9	Fc	6560	0	6545	458	0
9	Fd	6560	0	6545	450	0
9	Fe	6560	0	6545	420	0
9	Ff	6560	0	6545	422	0
All	All	94015	0	93950	6392	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 34.

All (6392) 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)
8:Ew:428:LEU:HB2	8:Fa:430:ARG:HH22	1.06	1.15
9:Fc:929:ALA:O	9:Fc:932:LEU:HB3	1.47	1.14
9:Ff:936:LEU:HA	9:Ff:939:LYS:HE3	1.32	1.12
8:Ey:254:MET:HE3	8:Ey:354:ARG:HB3	1.37	1.03
6:Df:115:MET:HE1	7:Ep:798:THR:HA	1.40	1.01
9:Fe:663:PRO:O	9:Fe:667:MET:HB3	1.59	1.00
8:Ew:418:LEU:HD11	8:Fa:419:LEU:HD13	1.43	0.99
6:Cz:150:LYS:H	6:Cz:247:ALA:HA	1.27	0.99
6:Bd:208:LYS:HD2	7:Ej:823:GLY:HA2	1.43	0.99
8:Fa:209:LEU:HA	8:Fa:212:GLN:HE21	1.27	0.98
6:Cb:111:ALA:HB2	7:Ek:797:ARG:HE	1.29	0.97
8:Fa:419:LEU:HA	8:Fa:422:ILE:HG12	1.46	0.97
6:Bj:126:GLN:HA	6:Bj:129:LYS:HE2	1.47	0.97
8:Ez:433:GLN:HA	8:Ez:436:ILE:HG12	1.45	0.96
8:Ew:425:GLN:HG2	8:Fa:426:MET:HE1	1.45	0.96
2:An:4:MET:HE1	5:Aq:249:SER:H	1.30	0.96
5:Dk:254:ILE:HB	5:Dk:262:ILE:HB	1.46	0.96
6:Df:204:ILE:HD13	6:Df:215:ILE:HG13	1.48	0.95
8:Ew:78:GLN:HG2	8:Ex:383:LEU:HD12	1.48	0.95
9:Fb:918:TYR:O	9:Fb:921:MET:HB2	1.66	0.95
8:Ey:413:LYS:HZ3	8:Ez:404:ASN:HA	1.30	0.94
8:Ez:254:MET:HE3	8:Ez:354:ARG:HB3	1.50	0.93
8:Ew:432:ILE:HG22	8:Fa:437:LEU:HD21	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ct:169:ILE:HG12	6:Ct:239:LEU:HD11	1.49	0.93
9:Fd:756:LEU:HA	9:Fd:759:MET:HG2	1.52	0.92
8:Ew:425:GLN:HG3	8:Fa:430:ARG:HE	1.36	0.91
8:Ew:428:LEU:HB2	8:Fa:430:ARG:NH2	1.85	0.91
5:Dk:213:GLN:HE21	5:Dk:221:TRP:HB2	1.34	0.91
8:Fa:206:TYR:HE2	8:Fa:208:ASN:HB2	1.35	0.91
8:Ew:383:LEU:HD12	8:Fa:78:GLN:HG2	1.53	0.90
8:Ew:334:ARG:HG3	8:Ex:282:TYR:HE1	1.35	0.90
6:Bv:145:PRO:HD3	6:Cb:131:LYS:HE2	1.54	0.90
9:Fe:37:PHE:HZ	9:Ff:831:TRP:HB2	1.37	0.90
8:Ew:330:PHE:HB3	8:Ew:334:ARG:HH21	1.34	0.89
6:Bv:202:PHE:HB3	6:Bv:215:ILE:HD11	1.54	0.89
6:Cb:208:LYS:HD2	7:En:823:GLY:HA2	1.54	0.89
7:Es:788:GLN:HB3	7:Es:792:GLN:HE22	1.35	0.89
6:Ax:111:ALA:HB3	7:Ef:797:ARG:HH11	1.38	0.89
9:Fb:103:ILE:HD12	9:Fb:104:PRO:HD3	1.55	0.89
8:Ey:437:LEU:HD21	8:Ez:432:ILE:HG22	1.54	0.88
8:Fa:412:GLN:HA	8:Fa:415:ILE:HD12	1.54	0.88
9:Fc:766:PHE:HA	9:Fc:769:LEU:HG	1.54	0.88
6:Ax:229:ARG:HH12	6:Ax:236:PRO:HA	1.35	0.88
8:Ey:434:GLU:HA	8:Ey:437:LEU:HD23	1.55	0.88
6:Dr:202:PHE:HB3	6:Dr:215:ILE:HD11	1.53	0.88
8:Ex:301:LEU:HG	8:Ex:326:LEU:HD21	1.55	0.88
3:Bs:4:ILE:HA	6:Ch:132:GLN:HE21	1.37	0.88
9:Fd:213:PRO:HB2	9:Fd:222:MET:HE2	1.54	0.88
6:Dx:108:ASP:HA	7:Es:797:ARG:HH22	1.38	0.88
8:Ex:254:MET:HE3	8:Ex:354:ARG:HB3	1.53	0.88
6:Cn:230:LEU:HD12	6:Cn:231:ARG:H	1.38	0.87
6:Bv:173:GLN:HE21	7:El:815:VAL:HG11	1.37	0.87
9:Fc:336:ILE:HA	9:Fc:339:MET:HG2	1.55	0.86
2:Bl:4:MET:HE1	5:Bo:249:SER:H	1.39	0.86
9:Fd:745:ILE:HG23	9:Fd:919:THR:HG21	1.57	0.86
6:Dr:149:PRO:HB2	6:Dr:248:VAL:HG13	1.57	0.86
8:Ex:188:SER:HA	8:Ex:191:MET:HG2	1.55	0.86
6:Bp:169:ILE:HG12	6:Bp:239:LEU:HD21	1.57	0.86
6:Cb:189:TRP:HE1	6:Cb:232:GLY:H	1.19	0.86
8:Ew:412:GLN:HA	8:Ew:415:ILE:HD12	1.56	0.86
8:Ew:317:VAL:HA	8:Ex:198:TRP:HE1	1.38	0.86
9:Fb:295:GLN:HE22	9:Fb:303:THR:H	1.19	0.86
9:Fb:697:ILE:HD11	9:Fc:906:ALA:HA	1.57	0.86
6:Dx:199:PRO:HD2	7:Ev:816:GLU:HG3	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bs:2:VAL:HG21	6:Ch:129:LYS:HG2	1.58	0.85
8:Ew:433:GLN:HA	8:Ew:436:ILE:HG12	1.57	0.85
9:Fd:759:MET:HE1	9:Fe:917:ILE:HD11	1.58	0.85
8:Ez:381:ARG:HE	8:Ez:382:ARG:HG3	1.41	0.85
6:Dr:219:LYS:HZ2	6:Dr:221:TYR:H	1.24	0.85
6:Ed:111:ALA:O	6:Ed:115:MET:HB2	1.77	0.85
9:Ff:824:ALA:O	9:Ff:827:TYR:HB3	1.76	0.85
6:Dr:208:LYS:HD2	7:Eu:823:GLY:HA2	1.57	0.85
7:Es:807:GLN:HE21	7:Es:808:LEU:HD23	1.41	0.85
8:Ew:430:ARG:NH2	8:Ex:428:LEU:HB2	1.92	0.85
9:Fb:598:VAL:HG12	9:Ff:714:SER:HB3	1.59	0.85
9:Fb:624:LEU:O	9:Fb:628:MET:HB2	1.76	0.85
6:Bd:201:SER:HA	6:Bd:219:LYS:HG3	1.59	0.85
6:Bv:108:ASP:HA	7:Ej:797:ARG:HH22	1.39	0.85
2:Bf:5:ILE:HG21	6:Bp:140:ALA:HB2	1.59	0.84
5:Bc:264:PHE:HZ	6:Bd:170:ARG:HH12	1.25	0.84
6:Bd:202:PHE:HB2	6:Bd:215:ILE:HD11	1.59	0.84
5:Dq:246:LEU:HB2	5:Dq:255:LEU:HD13	1.59	0.84
1:Am:12:HIS:HD2	3:Ao:9:TYR:HB2	1.41	0.84
8:Ey:277:LEU:HB2	8:Ey:281:ARG:HH21	1.41	0.84
6:Al:202:PHE:HB3	6:Al:215:ILE:HD11	1.60	0.83
9:Fb:929:ALA:O	9:Fb:932:LEU:HB3	1.77	0.83
6:Ct:149:PRO:HB2	6:Ct:248:VAL:HG13	1.61	0.83
8:Ez:426:MET:HE1	8:Fa:425:GLN:HG2	1.58	0.83
8:Fa:382:ARG:HB3	8:Fa:399:TRP:CE3	2.14	0.83
5:Cm:207:ARG:HD2	5:Cm:208:ILE:H	1.43	0.83
6:Ch:202:PHE:HB3	6:Ch:215:ILE:HD11	1.60	0.83
6:Ed:199:PRO:HD2	7:Ee:816:GLU:HG3	1.58	0.83
7:Em:793:GLU:HA	7:Em:796:GLN:HE21	1.43	0.83
9:Fd:663:PRO:O	9:Fd:667:MET:HB3	1.78	0.83
5:Ak:219:ARG:HA	5:Ak:232:VAL:O	1.78	0.83
5:Bu:213:GLN:HG3	6:Bv:168:VAL:HG11	1.61	0.83
8:Fa:400:ILE:HA	8:Fa:403:ILE:HD12	1.59	0.83
8:Fa:421:GLU:O	8:Fa:425:GLN:HB3	1.77	0.83
6:Bd:157:PHE:HD1	6:Bd:255:ARG:HG3	1.43	0.82
7:Ep:809:VAL:HG22	7:Ep:813:LYS:HE3	1.62	0.82
5:Dk:248:ASP:HB3	5:Dk:253:ARG:HG2	1.62	0.82
6:Dr:173:GLN:HE21	7:Et:815:VAL:HG21	1.43	0.82
8:Ex:412:GLN:HA	8:Ex:415:ILE:HD12	1.61	0.82
7:Er:807:GLN:HA	7:Er:810:GLN:NE2	1.93	0.82
8:Ez:359:MET:HE1	8:Ez:369:THR:HG22	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bv:138:GLU:HA	6:Bv:141:LYS:HB3	1.61	0.82
6:Ch:131:LYS:HG2	7:Em:812:TRP:CH2	2.15	0.82
6:Bj:138:GLU:HA	6:Bj:141:LYS:HB3	1.62	0.82
2:Cp:2:VAL:HG22	3:Cq:1:ARG:HE	1.45	0.82
6:Ct:204:ILE:HG12	6:Ct:215:ILE:HG12	1.61	0.82
6:Dx:208:LYS:HD2	7:Ev:823:GLY:HA2	1.60	0.82
8:Ew:327:SER:HB2	8:Ex:211:MET:HE1	1.61	0.82
6:Bj:193:ALA:HB3	6:Bj:229:ARG:HB3	1.61	0.81
3:Cw:2:VAL:HG11	6:Dl:129:LYS:HB3	1.62	0.81
2:Dn:4:MET:HE3	5:Dq:250:LEU:HG	1.61	0.81
6:Dx:216:GLN:HE22	7:Eu:817:THR:HA	1.45	0.81
8:Ey:274:GLN:HA	8:Ey:277:LEU:HG	1.61	0.81
8:Ez:398:GLN:HB2	8:Ez:401:LYS:HD3	1.60	0.81
9:Ff:741:THR:HG23	9:Ff:916:LEU:HD21	1.60	0.81
3:Dc:2:VAL:HG21	6:Dr:129:LYS:HE3	1.63	0.81
9:Fb:745:ILE:HG23	9:Fb:919:THR:HG21	1.62	0.81
9:Fc:86:ASN:HA	9:Fc:89:HIS:HD2	1.44	0.81
9:Fd:528:ILE:HD11	9:Fd:538:PRO:HD3	1.63	0.81
9:Fd:709:ASN:HD21	9:Fe:597:LYS:H	1.23	0.81
5:Bo:219:ARG:HH21	5:Bo:231:THR:HG23	1.46	0.81
8:Ey:419:LEU:HD13	8:Ez:418:LEU:HD13	1.63	0.80
6:Af:131:LYS:HE2	6:Ed:145:PRO:HD3	1.62	0.80
6:Bv:117:ARG:HH12	6:Bv:118:ASN:HB3	1.45	0.80
6:Bd:234:ASN:HD22	6:Bj:188:PRO:HG2	1.44	0.80
9:Fc:760:ILE:HD12	9:Fc:930:PHE:HB3	1.63	0.80
6:Bp:229:ARG:HA	6:Bp:236:PRO:HB3	1.63	0.80
6:Dx:126:GLN:HB3	6:Ed:112:PHE:CZ	2.16	0.80
5:Ae:238:ILE:HD12	5:Ae:239:PRO:HD2	1.64	0.80
9:Fe:771:ALA:HA	9:Fe:774:GLU:HG3	1.63	0.80
8:Ew:398:GLN:HB2	8:Ew:401:LYS:HD3	1.62	0.80
9:Fc:124:MET:HG3	9:Fc:128:PHE:HE1	1.46	0.80
9:Fd:696:TYR:HE1	9:Fd:745:ILE:HB	1.45	0.80
9:Ff:745:ILE:HG23	9:Ff:919:THR:HG21	1.62	0.80
6:Al:219:LYS:HD2	6:Al:222:ASN:HD21	1.46	0.80
7:Em:807:GLN:HA	7:Em:810:GLN:HE21	1.46	0.80
8:Ey:75:GLN:HE21	8:Ey:79:ASN:HD21	1.30	0.80
6:Al:208:LYS:HD2	7:Eg:823:GLY:HA2	1.62	0.80
8:Ex:82:TYR:HB2	8:Ey:383:LEU:HD21	1.64	0.80
8:Ex:437:LEU:HD13	8:Ey:436:ILE:HD13	1.63	0.80
8:Fa:426:MET:HA	8:Fa:429:ASP:OD2	1.82	0.80
6:Af:230:LEU:HD12	6:Af:231:ARG:H	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Al:115:MET:HE3	7:Ev:801:MET:HB2	1.61	0.79
6:Dx:189:TRP:HE1	6:Dx:232:GLY:H	1.30	0.79
7:Ev:809:VAL:HA	7:Ev:812:TRP:CD1	2.17	0.79
7:Ep:807:GLN:HA	7:Ep:810:GLN:NE2	1.98	0.79
8:Ey:339:GLN:HE22	8:Ez:283:ALA:HA	1.46	0.79
6:Bd:189:TRP:HE1	6:Bd:232:GLY:H	1.31	0.79
6:Af:121:PRO:HB2	7:Ev:801:MET:HG3	1.63	0.79
9:Ff:188:GLN:HE22	9:Ff:343:LEU:HB2	1.48	0.79
6:Cz:107:ILE:HA	6:Cz:110:LYS:HZ3	1.47	0.79
6:Al:171:LEU:HD12	6:Al:172:SER:H	1.48	0.79
6:Ax:204:ILE:HD11	6:Ax:213:LEU:HD22	1.64	0.79
8:Ew:427:TYR:HD1	8:Ew:428:LEU:HD13	1.48	0.79
8:Ey:412:GLN:HA	8:Ey:415:ILE:HD12	1.64	0.79
8:Ey:419:LEU:HD11	8:Ez:418:LEU:HD22	1.65	0.79
9:Fb:566:THR:HG23	9:Fb:569:GLY:H	1.47	0.79
9:Fb:697:ILE:HD12	9:Fc:909:TYR:HD2	1.47	0.79
9:Ff:537:VAL:HG13	9:Ff:542:GLN:HA	1.64	0.79
6:Ar:219:LYS:HE3	6:Ar:222:ASN:HD21	1.47	0.79
8:Fa:277:LEU:HD23	8:Fa:281:ARG:HH12	1.47	0.79
9:Ff:500:GLN:HA	9:Ff:503:LYS:HG3	1.64	0.79
6:Ax:134:TYR:HE1	7:Eg:809:VAL:HG23	1.48	0.79
6:Ed:169:ILE:HD11	6:Ed:239:LEU:HB3	1.64	0.79
6:Dx:126:GLN:HA	6:Dx:129:LYS:HG2	1.65	0.78
7:Ei:777:ILE:HA	7:Ei:780:LYS:HG2	1.65	0.78
9:Fe:661:MET:HE1	9:Fe:703:LEU:HD21	1.65	0.78
5:Ae:241:TYR:HB3	5:Ae:256:THR:HG21	1.63	0.78
2:An:2:VAL:HA	3:Ao:1:ARG:HE	1.45	0.78
8:Ey:208:ASN:O	8:Ey:212:GLN:HG2	1.84	0.78
5:Bo:210:TYR:HB3	5:Bo:222:LEU:HD13	1.65	0.78
9:Fb:528:ILE:HD11	9:Fb:538:PRO:HD3	1.64	0.78
6:Dl:229:ARG:HH12	6:Dl:233:LEU:HB2	1.48	0.78
8:Ez:430:ARG:HH12	8:Fa:425:GLN:HG3	1.49	0.78
6:Ar:149:PRO:HB2	6:Ar:248:VAL:HG13	1.63	0.78
6:Ed:117:ARG:HH21	7:Eu:797:ARG:HG3	1.48	0.78
7:Em:793:GLU:HA	7:Em:796:GLN:NE2	1.98	0.78
8:Ey:234:LYS:HA	8:Ey:237:GLN:HE21	1.48	0.78
8:Ey:330:PHE:HB2	8:Ey:334:ARG:HH22	1.48	0.78
9:Fe:261:LEU:HD11	9:Fe:265:ASN:HD21	1.49	0.78
8:Ey:207:GLN:HB2	8:Ey:289:PRO:HG2	1.66	0.78
8:Ey:423:ASN:HD22	8:Ez:382:ARG:HH22	1.32	0.78
6:Ed:144:THR:HG21	6:Ed:148:PRO:HG3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ey:382:ARG:HE	8:Ey:418:LEU:HD23	1.49	0.78
3:Ac:2:VAL:HG21	6:Ar:129:LYS:HD3	1.65	0.77
6:Ar:181:PHE:HD1	6:Ar:254:LEU:HD11	1.49	0.77
9:Fd:697:ILE:HD12	9:Fe:909:TYR:HD1	1.49	0.77
8:Ey:189:PHE:CD1	8:Ey:295:LEU:HD23	2.20	0.77
9:Fb:828:VAL:HG21	9:Ff:41:LEU:HD12	1.64	0.77
9:Fd:573:ASN:HA	9:Fd:576:MET:HE1	1.66	0.77
6:Af:126:GLN:HA	6:Af:129:LYS:HE2	1.65	0.77
9:Fb:721:GLY:HA2	9:Fb:724:ILE:HG12	1.66	0.77
6:Df:121:PRO:HB2	7:Eq:797:ARG:HH12	1.49	0.77
7:Ep:807:GLN:HA	7:Ep:810:GLN:HE21	1.49	0.77
9:Fe:704:TRP:HE1	9:Ff:734:LEU:HB2	1.50	0.77
5:Ec:254:ILE:HB	5:Ec:262:ILE:HB	1.66	0.77
7:Ev:809:VAL:HA	7:Ev:812:TRP:HD1	1.46	0.77
8:Ex:142:ILE:HA	8:Ex:210:VAL:HG23	1.66	0.77
8:Ez:214:VAL:HG22	8:Ez:267:LEU:HD11	1.66	0.77
6:Bp:171:LEU:HD11	6:Bp:241:LEU:HB2	1.67	0.77
5:Aw:264:PHE:HB3	5:Aw:269:SER:HB3	1.67	0.77
6:Bj:129:LYS:HE3	6:Bp:112:PHE:CE2	2.20	0.77
6:Cb:112:PHE:O	6:Cb:116:THR:HG23	1.85	0.77
8:Fa:254:MET:HE3	8:Fa:354:ARG:HB2	1.67	0.77
6:Cn:214:MET:HE1	7:Eo:818:GLN:HE21	1.50	0.77
9:Fe:336:ILE:HA	9:Fe:339:MET:HG2	1.65	0.77
6:Bd:150:LYS:H	6:Bd:247:ALA:HA	1.50	0.76
6:Bv:130:LEU:HA	6:Bv:133:ILE:HD12	1.67	0.76
6:Df:229:ARG:HD2	6:Df:236:PRO:HB3	1.68	0.76
9:Fe:528:ILE:HD11	9:Fe:538:PRO:HD3	1.66	0.76
6:Ct:121:PRO:HB2	7:Eo:801:MET:HE1	1.65	0.76
5:De:245:LYS:HB2	5:De:246:LEU:HD22	1.68	0.76
8:Ex:280:ILE:HB	8:Ex:347:LEU:HD13	1.65	0.76
9:Fb:905:TRP:HE1	9:Ff:702:THR:HG22	1.50	0.76
5:Ca:238:ILE:HD11	5:Ca:244:VAL:HG23	1.67	0.76
7: Ei:799:SER:HA	7: Ei:802:LEU:HD23	1.66	0.76
5:Dq:238:ILE:HD12	5:Dq:239:PRO:HD2	1.67	0.76
8:Ex:55:THR:HA	8:Ey:42:TYR:HE1	1.51	0.76
6:Ar:126:GLN:HA	6:Ar:129:LYS:HZ2	1.49	0.76
5:Bc:246:LEU:HB3	5:Bc:255:LEU:HD23	1.68	0.76
6:Cb:141:LYS:HZ2	6:Ch:127:VAL:HG13	1.50	0.76
6:Cz:169:ILE:HD11	6:Cz:239:LEU:HD23	1.67	0.76
8:Ew:418:LEU:CD1	8:Fa:419:LEU:HD13	2.16	0.76
8:Ey:111:LEU:HD11	8:Ez:386:PRO:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fd:766:PHE:HA	9:Fd:769:LEU:HG	1.67	0.76
7:Ek:814:GLN:HE22	7:Ek:816:GLU:HB2	1.48	0.76
8:Ey:188:SER:HA	8:Ey:191:MET:HG2	1.67	0.76
7:Em:788:GLN:HG3	9:Fc:235:SER:HB2	1.67	0.76
8:Ez:448:LEU:HD13	8:Fa:340:THR:HG22	1.67	0.76
9:Fc:759:MET:HA	9:Fd:921:MET:HE3	1.67	0.76
1:Ay:2:THR:HG21	5:Bc:253:ARG:HH12	1.50	0.76
6:Dx:117:ARG:NH1	6:Dx:118:ASN:HA	2.01	0.76
7:Eu:786:ALA:HA	7:Eu:789:LYS:HZ3	1.49	0.76
1:As:15:ASN:HB3	2:Az:9:ARG:HH22	1.50	0.76
6:Dx:196:LEU:HD11	6:Dx:202:PHE:HB2	1.67	0.76
9:Fb:123:MET:HA	9:Fb:126:VAL:HG22	1.66	0.76
9:Fe:391:GLU:HG3	9:Fe:393:GLN:H	1.49	0.76
6:Ct:242:ILE:HG13	6:Ct:245:GLN:NE2	2.01	0.75
9:Fd:728:ILE:HD13	9:Fe:729:MET:SD	2.25	0.75
6:Ct:128:VAL:HG23	6:Ct:132:GLN:HE21	1.49	0.75
7:Ev:797:ARG:HG3	7:Ev:801:MET:HE1	1.68	0.75
8:Ex:277:LEU:HD13	8:Ex:281:ARG:HH22	1.51	0.75
8:Ez:301:LEU:HD13	8:Ez:326:LEU:HD21	1.67	0.75
8:Fa:206:TYR:H	8:Fa:209:LEU:HD12	1.51	0.75
9:Fe:37:PHE:CZ	9:Ff:831:TRP:HB2	2.21	0.75
9:Fe:692:MET:HA	9:Fe:695:MET:HG2	1.68	0.75
8:Ew:430:ARG:HH22	8:Ex:428:LEU:HD13	1.51	0.75
9:Fc:57:MET:HB3	9:Fc:61:PHE:HE1	1.51	0.75
9:Fe:37:PHE:HE2	9:Ff:832:ILE:HD13	1.49	0.75
6:Df:126:GLN:HA	6:Df:129:LYS:HG2	1.67	0.75
9:Fc:778:ALA:HA	9:Fc:781:ILE:HD12	1.68	0.75
6:Al:144:THR:HG21	6:Al:148:PRO:HG3	1.69	0.75
6:Ar:115:MET:HE1	7:Ee:801:MET:HB2	1.67	0.75
6:Bv:114:ASP:HB2	6:Bv:117:ARG:HH21	1.50	0.75
8:Ez:437:LEU:HD11	8:Fa:346:ASN:HB3	1.69	0.75
9:Fc:251:LEU:HD11	9:Fc:326:GLN:HE22	1.52	0.75
2:Ab:5:ILE:HD12	6:Al:139:TYR:HD2	1.50	0.75
6:Bv:204:ILE:HB	6:Bv:215:ILE:HD13	1.68	0.75
6:Cz:106:VAL:HA	6:Cz:109:LYS:HG2	1.69	0.75
8:Ex:280:ILE:HG21	8:Ex:351:LEU:HD23	1.67	0.75
9:Fd:251:LEU:HD21	9:Fd:297:ASP:HA	1.68	0.75
6:Cz:171:LEU:HD11	6:Cz:241:LEU:HB3	1.67	0.75
7:Eg:807:GLN:HA	7:Eg:810:GLN:HG3	1.67	0.75
9:Ff:905:TRP:HE3	9:Ff:909:TYR:CE1	2.05	0.75
5:Dq:254:ILE:HB	5:Dq:262:ILE:HB	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ez:427:TYR:HD1	8:Ez:430:ARG:HE	1.33	0.75
9:Fc:825:LEU:HD12	9:Fc:929:ALA:HB2	1.67	0.74
6:Af:149:PRO:HB2	6:Af:248:VAL:HG13	1.69	0.74
6:Bd:106:VAL:HA	6:Bd:109:LYS:HG2	1.69	0.74
5:Ak:238:ILE:HB	5:Ak:241:TYR:HB2	1.69	0.74
6:Ar:131:LYS:HZ2	7:Ef:812:TRP:HZ3	1.33	0.74
6:Ct:106:VAL:HA	6:Ct:109:LYS:HG2	1.69	0.74
6:Ed:201:SER:HB2	6:Ed:219:LYS:HD2	1.67	0.74
8:Ew:245:SER:HA	8:Ew:279:PHE:CE1	2.23	0.74
9:Fc:648:PHE:O	9:Fc:652:ILE:HG13	1.86	0.74
9:Ff:420:LEU:HD21	9:Ff:575:MET:HA	1.70	0.74
6:Ar:208:LYS:HE3	7:Eh:823:GLY:HA2	1.69	0.74
7:Eq:799:SER:HA	7:Eq:802:LEU:HD23	1.69	0.74
8:Ey:423:ASN:HD21	8:Ez:379:ALA:HA	1.52	0.74
8:Ey:424:TYR:HE1	8:Ez:380:THR:HA	1.50	0.74
6:Ch:115:MET:HE1	7:El:801:MET:HG2	1.70	0.74
5:Cs:230:LEU:HD12	5:Cs:231:THR:H	1.51	0.74
8:Ex:428:LEU:HA	8:Ex:431:GLN:HG2	1.67	0.74
9:Fd:239:PHE:HD1	9:Fd:261:LEU:HD13	1.52	0.74
6:Bp:112:PHE:HA	6:Bp:115:MET:HG2	1.70	0.74
6:Df:117:ARG:NH2	7:Eq:797:ARG:HD3	2.03	0.74
9:Ff:540:LEU:HD11	9:Ff:562:PRO:HB2	1.68	0.74
3:Ba:2:VAL:HG21	6:Bp:129:LYS:HG2	1.69	0.74
9:Fb:202:ARG:HG3	9:Fb:230:ILE:HD11	1.68	0.74
6:Cb:214:MET:HE1	7:Em:818:GLN:HG3	1.69	0.74
9:Fb:634:ASN:HA	9:Fb:638:ARG:HG3	1.68	0.74
9:Fc:103:ILE:HG22	9:Fc:106:ARG:HH21	1.53	0.74
9:Fc:110:GLY:HA3	9:Fc:787:THR:HG23	1.68	0.74
9:Fc:540:LEU:HD21	9:Fc:563:LEU:HA	1.68	0.74
9:Fe:694:THR:O	9:Fe:698:ASN:HB2	1.87	0.73
9:Ff:707:LEU:HA	9:Ff:710:MET:SD	2.28	0.73
8:Fa:253:LEU:HD13	8:Fa:373:LEU:HD22	1.70	0.73
5:Cm:216:ILE:HD11	6:Ct:148:PRO:HG2	1.70	0.73
5:Dw:219:ARG:HH21	5:Dw:231:THR:HG23	1.52	0.73
7:Eq:809:VAL:HA	7:Eq:812:TRP:HD1	1.52	0.73
9:Fd:202:ARG:HG3	9:Fd:230:ILE:HD11	1.69	0.73
9:Fc:732:MET:HA	9:Fc:735:LEU:HD12	1.70	0.73
2:An:4:MET:CE	5:Aq:249:SER:H	2.01	0.73
2:Bx:6:GLY:HA2	6:Cn:125:GLU:HG3	1.70	0.73
6:Df:169:ILE:HD11	6:Df:239:LEU:HB3	1.70	0.73
8:Ew:324:ALA:HB2	8:Ex:208:ASN:HD21	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fc:511:ASP:OD2	9:Fc:512:PRO:HA	1.87	0.73
6:Bp:126:GLN:HA	6:Bp:129:LYS:HG3	1.68	0.73
5:Cy:219:ARG:HA	5:Cy:232:VAL:O	1.87	0.73
8:Ey:317:VAL:HA	8:Ez:198:TRP:HZ3	1.52	0.73
8:Fa:427:TYR:O	8:Fa:430:ARG:HB2	1.88	0.73
9:Fb:766:PHE:HB3	9:Fc:928:LYS:NZ	2.04	0.73
6:Af:126:GLN:HA	6:Af:129:LYS:HG3	1.70	0.73
8:Ew:430:ARG:HG2	8:Ex:429:ASP:OD2	1.89	0.73
9:Fb:812:PRO:HA	9:Fb:815:MET:HE3	1.70	0.73
9:Fc:527:LEU:HA	9:Fc:530:ILE:HG12	1.71	0.73
9:Ff:674:GLY:HA2	9:Ff:692:MET:HE1	1.71	0.73
9:Fc:769:LEU:O	9:Fc:773:ILE:HD12	1.89	0.73
6:Bp:238:MET:HE1	6:Bv:178:SER:HB3	1.70	0.73
8:Ey:419:LEU:CD1	8:Ez:418:LEU:HD13	2.19	0.73
6:Al:106:VAL:HA	6:Al:109:LYS:HD3	1.71	0.72
6:Cb:111:ALA:HB2	7:Ek:797:ARG:NE	2.03	0.72
6:Cb:115:MET:HG3	6:Cb:118:ASN:HB2	1.71	0.72
6:Ct:229:ARG:HH11	6:Ct:236:PRO:HA	1.52	0.72
5:Dw:210:TYR:HB3	5:Dw:222:LEU:HD13	1.71	0.72
6:Dx:214:MET:HE1	7:Eu:818:GLN:HE21	1.53	0.72
9:Fc:692:MET:HA	9:Fc:695:MET:HG2	1.71	0.72
9:Fd:212:PRO:HA	9:Fd:215:GLY:H	1.52	0.72
9:Fd:397:GLN:HE21	9:Fd:578:GLN:HB2	1.54	0.72
9:Fb:383:LYS:HA	9:Fb:396:CYS:HA	1.71	0.72
1:Bk:3:ASP:HB2	2:Bl:9:ARG:HH22	1.52	0.72
2:Dt:5:ILE:HD12	6:Ed:139:TYR:HD2	1.55	0.72
8:Ez:302:TRP:HD1	8:Ez:303:ASN:HD22	1.37	0.72
9:Fe:326:GLN:HA	9:Fe:329:ARG:HG2	1.71	0.72
6:Ax:212:THR:HG22	6:Ax:214:MET:HE1	1.72	0.72
5:Dk:238:ILE:HD12	5:Dk:239:PRO:HD2	1.71	0.72
8:Ew:380:THR:HA	8:Fa:424:TYR:CE2	2.24	0.72
9:Fc:42:PHE:HA	9:Fc:57:MET:HG3	1.72	0.72
6:Al:230:LEU:HD12	6:Al:231:ARG:H	1.54	0.72
6:Dl:208:LYS:HD2	7:Et:823:GLY:HA2	1.71	0.72
8:Ez:457:PHE:HZ	8:Fa:293:PRO:HB3	1.54	0.72
9:Fc:500:GLN:HA	9:Fc:503:LYS:HG3	1.68	0.72
6:Cb:144:THR:HG21	6:Cb:148:PRO:HG3	1.72	0.72
8:Ew:330:PHE:HB3	8:Ew:334:ARG:NH2	2.05	0.72
9:Fb:732:MET:HB2	9:Fb:736:MET:HE1	1.71	0.72
6:Ar:221:TYR:CE1	6:Ax:139:TYR:HA	2.23	0.72
6:Bj:225:ASN:HD21	6:Bp:176:VAL:H	1.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ed:208:LYS:HG3	7:Ee:824:THR:HB	1.70	0.72
8:Ey:421:GLU:O	8:Ey:425:GLN:HG2	1.89	0.72
9:Fd:41:LEU:O	9:Fd:57:MET:HE3	1.89	0.72
9:Fe:662:ILE:HG23	9:Fe:663:PRO:HD3	1.72	0.72
6:Bv:206:TRP:HB2	6:Bv:213:LEU:HD23	1.71	0.72
6:Ed:156:GLN:HE22	6:Ed:158:VAL:HG22	1.55	0.72
8:Ex:189:PHE:HA	8:Ex:295:LEU:HD12	1.72	0.72
6:Bp:168:VAL:HA	6:Bp:240:THR:O	1.90	0.72
2:Cj:2:VAL:HG22	3:Ck:1:ARG:HE	1.54	0.72
5:Cy:230:LEU:HD12	5:Cy:231:THR:H	1.52	0.72
8:Ey:422:ILE:HA	8:Ey:425:GLN:HE21	1.55	0.72
8:Fa:170:LEU:HD13	8:Fa:176:GLN:HA	1.72	0.72
5:Cg:238:ILE:HD11	5:Cg:244:VAL:HG23	1.69	0.72
7:Eg:798:THR:HA	7:Eg:801:MET:HG2	1.72	0.72
8:Ew:350:ILE:HA	8:Ew:353:LYS:HE3	1.72	0.72
8:Ey:277:LEU:HB2	8:Ey:281:ARG:NH2	2.05	0.72
6:Bv:111:ALA:HB3	7:Ej:797:ARG:HH21	1.53	0.71
9:Fc:56:ILE:HA	9:Fd:149:TYR:HE2	1.55	0.71
9:Fc:339:MET:HE1	9:Fc:426:TYR:HB2	1.72	0.71
9:Fd:41:LEU:HB2	9:Fe:828:VAL:HG11	1.70	0.71
9:Ff:527:LEU:HA	9:Ff:530:ILE:HG12	1.72	0.71
6:Bj:202:PHE:HB3	6:Bj:215:ILE:HD11	1.72	0.71
8:Ex:191:MET:HE1	8:Ex:198:TRP:CD2	2.25	0.71
9:Fe:920:SER:O	9:Fe:924:ILE:HD12	1.90	0.71
5:Ae:219:ARG:HA	5:Ae:232:VAL:O	1.89	0.71
2:At:2:VAL:HG22	3:Au:1:ARG:HE	1.54	0.71
6:Bd:115:MET:SD	6:Bd:119:LEU:HD23	2.29	0.71
5:Cm:233:ARG:NH1	5:Cm:236:SER:HB3	2.05	0.71
5:Cs:219:ARG:NH1	5:Cs:233:ARG:HB3	2.04	0.71
8:Ex:330:PHE:O	8:Ex:334:ARG:HG2	1.89	0.71
9:Fd:140:ASP:O	9:Fd:144:GLU:HG3	1.91	0.71
9:Fd:196:LYS:HG2	9:Fd:357:PHE:HB3	1.72	0.71
6:Cb:202:PHE:HB3	6:Cb:215:ILE:HD11	1.72	0.71
8:Ey:424:TYR:CE1	8:Ez:380:THR:HA	2.25	0.71
9:Fd:272:PHE:HB3	9:Fd:275:LEU:HD22	1.71	0.71
9:Ff:335:ALA:O	9:Ff:338:GLN:HG2	1.90	0.71
6:Al:130:LEU:HG	7:Ee:812:TRP:HH2	1.54	0.71
6:Bp:141:LYS:HD3	7:Ek:808:LEU:HD12	1.72	0.71
6:Cz:225:ASN:HB2	6:Cz:238:MET:HE1	1.72	0.71
6:Df:145:PRO:HD2	6:Di:131:LYS:NZ	2.06	0.71
6:Df:145:PRO:HD2	6:Di:131:LYS:HZ2	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bp:173:GLN:HE21	7:Ek:815:VAL:HG22	1.55	0.71
6:Cb:138:GLU:HA	6:Cb:141:LYS:HG2	1.70	0.71
6:Cb:204:ILE:HD11	6:Cb:213:LEU:HD22	1.73	0.71
7:Ef:810:GLN:HA	7:Ef:813:LYS:HG2	1.73	0.71
8:Fa:228:PRO:HB3	8:Fa:234:LYS:HE3	1.72	0.71
9:Fb:704:TRP:HH2	9:Fc:731:ALA:HA	1.55	0.71
3:Ao:2:VAL:HG11	6:Bd:129:LYS:HG2	1.73	0.71
9:Fb:469:PHE:CE2	9:Fc:843:TYR:HB2	2.26	0.71
9:Fc:239:PHE:CD2	9:Fc:336:ILE:HG13	2.26	0.71
9:Fd:907:GLY:O	9:Fd:910:ALA:HB3	1.90	0.71
9:Fd:932:LEU:HA	9:Fd:935:HIS:CD2	2.26	0.71
6:Af:132:GLN:HE21	6:Af:136:THR:HG23	1.56	0.71
6:Ct:115:MET:HE1	7:En:801:MET:HB2	1.73	0.71
6:Ed:111:ALA:HB1	7:Et:797:ARG:HH21	1.56	0.71
8:Ew:403:ILE:HG22	8:Fa:413:LYS:HG2	1.72	0.71
6:Ax:134:TYR:CE1	7:Eg:809:VAL:HG23	2.25	0.70
8:Fa:211:MET:HA	8:Fa:214:VAL:HG23	1.73	0.70
9:Fb:103:ILE:HD11	7:Fh:20:ILE:HD12	1.73	0.70
1:Am:15:ASN:HB3	2:At:9:ARG:HH22	1.56	0.70
2:Dh:4:MET:SD	5:Dk:248:ASP:HA	2.32	0.70
7:Ek:793:GLU:HA	7:Ek:796:GLN:HG3	1.72	0.70
8:Ew:383:LEU:HD12	8:Fa:78:GLN:CG	2.20	0.70
8:Ez:182:LEU:HD11	8:Fa:243:LEU:HD12	1.73	0.70
9:Fd:593:LEU:HD11	9:Fd:905:TRP:HB3	1.73	0.70
9:Fe:812:PRO:HA	9:Fe:815:MET:HG2	1.73	0.70
5:Bo:241:TYR:HB3	5:Bo:256:THR:HG21	1.73	0.70
8:Ez:207:GLN:HB2	8:Ez:289:PRO:HG2	1.73	0.70
9:Fb:745:ILE:O	9:Fb:749:THR:HG22	1.90	0.70
9:Fe:111:LEU:HD13	7:Fj:31:ALA:HB2	1.72	0.70
9:Fe:500:GLN:HA	9:Fe:503:LYS:HG2	1.73	0.70
2:Bx:4:MET:HE1	5:Ca:249:SER:H	1.56	0.70
9:Fb:259:PHE:HE2	9:Fb:286:ASN:HB2	1.54	0.70
9:Fc:240:VAL:HG23	9:Fc:241:LYS:HD3	1.73	0.70
9:Ff:177:VAL:HG12	9:Ff:491:LEU:HD23	1.72	0.70
5:Aq:247:ILE:HG23	5:Aq:254:ILE:HD12	1.73	0.70
8:Ew:208:ASN:HD21	8:Fa:324:ALA:HB2	1.55	0.70
8:Ey:189:PHE:HD1	8:Ey:295:LEU:HD23	1.56	0.70
9:Fd:339:MET:SD	9:Fd:426:TYR:HB2	2.31	0.70
9:Ff:655:ILE:HG23	9:Ff:659:PHE:HE1	1.54	0.70
2:At:4:MET:HE2	5:Aw:249:SER:H	1.56	0.70
7:Ef:801:MET:HA	7:Ef:801:MET:HE3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ew:254:MET:HE3	8:Ew:354:ARG:HB2	1.73	0.70
8:Ey:174:VAL:HG11	8:Ey:345:SER:HA	1.72	0.70
9:Fd:732:MET:O	9:Fd:736:MET:HB2	1.91	0.70
6:Ar:238:MET:HG3	6:Ax:251:ARG:HG3	1.74	0.70
5:Cy:264:PHE:HB3	5:Cy:269:SER:HB3	1.73	0.70
8:Ey:249:ILE:HD12	8:Ey:354:ARG:HH12	1.56	0.70
9:Ff:239:PHE:HD2	9:Ff:261:LEU:HD23	1.55	0.70
6:Al:189:TRP:CG	6:Al:230:LEU:HD11	2.27	0.70
6:Ar:205:GLN:HB2	7:Eg:820:TYR:CZ	2.27	0.70
6:Dl:115:MET:HE1	7:Eq:802:LEU:HD13	1.74	0.70
6:Dr:238:MET:HE1	6:Dx:251:ARG:HB3	1.71	0.70
8:Ex:334:ARG:HD3	8:Ey:282:TYR:CE1	2.27	0.70
8:Ey:186:ASP:H	8:Ey:189:PHE:HE2	1.39	0.70
6:Bj:115:MET:HE1	7:Eh:802:LEU:HD13	1.74	0.70
8:Ew:277:LEU:O	8:Ew:281:ARG:HG3	1.91	0.70
8:Ey:178:VAL:HG23	8:Ey:337:ALA:HB1	1.72	0.70
9:Fd:743:VAL:HG23	9:Fd:747:PHE:HE1	1.57	0.70
7:Fj:17:THR:O	7:Fj:21:ILE:HG12	1.92	0.70
6:Ar:107:ILE:HA	6:Ar:110:LYS:HZ3	1.57	0.70
5:Bo:253:ARG:HA	5:Bo:263:LYS:HZ1	1.57	0.70
6:Dr:219:LYS:HD2	6:Dr:220:LEU:H	1.56	0.70
6:Dx:110:LYS:HZ1	7:Es:794:ILE:HG12	1.56	0.70
6:Bv:246:LYS:HE2	6:Bv:246:LYS:HA	1.73	0.69
7:Eh:799:SER:HA	7:Eh:802:LEU:HD23	1.74	0.69
7:Ei:785:LEU:HD23	9:Fd:241:LYS:HD3	1.73	0.69
8:Ew:178:VAL:HG22	8:Ew:341:SER:HB3	1.74	0.69
9:Fc:590:PHE:HA	9:Fc:593:LEU:HD13	1.74	0.69
9:Fd:921:MET:O	9:Fd:925:ILE:HD12	1.92	0.69
6:Cb:141:LYS:NZ	7:Em:808:LEU:HD13	2.07	0.69
7:Ej:777:ILE:HA	7:Ej:780:LYS:HG2	1.74	0.69
9:Fe:648:PHE:O	9:Fe:652:ILE:HG13	1.91	0.69
2:Ah:2:VAL:HA	3:Ai:1:ARG:HE	1.56	0.69
5:Aq:219:ARG:HH22	6:Ax:150:LYS:HE2	1.56	0.69
1:Da:6:LEU:O	1:Da:10:GLU:HG2	1.92	0.69
6:Dx:225:ASN:HD21	6:Ed:176:VAL:H	1.41	0.69
7:Em:808:LEU:O	7:Em:812:TRP:CD1	2.45	0.69
8:Ew:385:ASP:H	8:Ew:398:GLN:HE22	1.41	0.69
8:Ey:381:ARG:HH22	8:Ey:382:ARG:HD2	1.57	0.69
8:Ew:353:LYS:HG3	8:Ew:354:ARG:HE	1.56	0.69
9:Fc:701:GLY:O	9:Fc:705:LEU:HD22	1.92	0.69
6:Al:149:PRO:HB2	6:Al:248:VAL:HG13	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bd:153:ALA:HB1	6:Bd:251:ARG:HH21	1.58	0.69
6:Ch:166:PRO:HB3	6:Cn:250:TYR:CE2	2.27	0.69
7:Er:807:GLN:HA	7:Er:810:GLN:HE21	1.56	0.69
9:Fe:472:VAL:HG12	9:Fe:684:ASN:HD21	1.58	0.69
6:Ar:158:VAL:HG22	6:Ar:167:PRO:HG2	1.73	0.69
5:Aw:219:ARG:CZ	5:Aw:233:ARG:HB3	2.22	0.69
8:Ey:302:TRP:CZ3	8:Ez:218:LEU:HG	2.28	0.69
8:Ez:429:ASP:HA	8:Ez:432:ILE:HG12	1.72	0.69
9:Fc:653:ASN:HB3	9:Fc:657:MET:HE1	1.75	0.69
9:Fe:596:PHE:CD2	9:Fe:656:VAL:HG11	2.27	0.69
9:Ff:739:ILE:O	9:Ff:743:VAL:HG12	1.92	0.69
3:Bg:2:VAL:HG21	6:Bv:129:LYS:HG2	1.74	0.69
2:Cd:2:VAL:HG22	3:Ce:1:ARG:HE	1.57	0.69
5:Cy:219:ARG:HH21	5:Cy:231:THR:HG23	1.57	0.69
6:Cz:121:PRO:HB2	7:Ep:801:MET:SD	2.33	0.69
6:Dr:202:PHE:HZ	6:Dr:243:PRO:HD3	1.57	0.69
8:Ey:86:LEU:HD12	8:Ey:115:LEU:HD12	1.75	0.69
8:Fa:438:LEU:O	8:Fa:442:ILE:HG12	1.92	0.69
9:Fb:71:LEU:O	9:Fb:75:ILE:HG12	1.92	0.69
9:Fe:332:ARG:HH21	9:Fe:489:THR:HA	1.56	0.69
7:Fh:12:PHE:HA	7:Fh:18:ARG:HE	1.58	0.69
6:Bv:144:THR:HG21	6:Bv:148:PRO:HG3	1.75	0.69
7:Et:796:GLN:HE22	9:Ff:228:THR:HA	1.57	0.69
8:Ez:252:LEU:HD12	8:Ez:373:LEU:HA	1.74	0.69
9:Fc:520:PHE:HE2	9:Fc:526:LYS:HB2	1.58	0.69
6:Cz:219:LYS:HZ2	6:Cz:221:TYR:H	1.41	0.69
6:Dr:111:ALA:HB1	6:Dr:115:MET:CE	2.23	0.69
7:Eq:780:LYS:HA	7:Eq:783:GLU:OE1	1.93	0.69
8:Ey:430:ARG:HH12	8:Ez:428:LEU:HB2	1.58	0.69
9:Ff:793:GLU:HG3	9:Ff:795:PHE:H	1.57	0.69
1:Am:12:HIS:CD2	3:Ao:9:TYR:HB2	2.27	0.68
8:Ex:205:MET:HA	8:Ex:209:LEU:HD23	1.75	0.68
9:Fd:180:GLY:O	9:Fd:184:ILE:HD12	1.93	0.68
9:Fd:932:LEU:O	9:Fd:936:LEU:HD12	1.93	0.68
6:Bd:112:PHE:O	6:Bd:116:THR:HG22	1.93	0.68
2:Br:2:VAL:HG22	3:Bs:1:ARG:HE	1.57	0.68
8:Ey:438:LEU:O	8:Ey:442:ILE:HG12	1.93	0.68
9:Fb:618:LEU:HB2	9:Ff:618:LEU:HD11	1.74	0.68
9:Fe:527:LEU:HA	9:Fe:530:ILE:HG12	1.75	0.68
9:Fe:502:THR:HG23	9:Fe:531:GLN:HE21	1.58	0.68
5:Aw:219:ARG:CZ	6:Bd:150:LYS:HD3	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dw:253:ARG:HH11	5:Dw:255:LEU:HD11	1.58	0.68
9:Fc:104:PRO:O	9:Fc:108:THR:HG23	1.93	0.68
9:Fd:334:ILE:HD12	9:Fd:429:ILE:HD11	1.73	0.68
6:Df:225:ASN:HB2	6:Dl:250:TYR:OH	1.94	0.68
9:Fd:928:LYS:HA	9:Fd:931:THR:HG23	1.75	0.68
5:Aw:222:LEU:HD11	5:Aw:262:ILE:HG21	1.76	0.68
6:Bj:110:LYS:HG3	7:Eh:794:ILE:HG21	1.75	0.68
6:Bp:122:LEU:HD11	6:Bp:130:LEU:HD11	1.76	0.68
6:Ct:126:GLN:HA	6:Ct:129:LYS:HG3	1.74	0.68
2:Dt:2:VAL:HG22	3:Du:1:ARG:HE	1.57	0.68
6:Dx:228:VAL:HG13	6:Dx:237:VAL:HB	1.76	0.68
8:Ew:418:LEU:O	8:Ew:422:ILE:HG13	1.93	0.68
9:Fc:102:TRP:HD1	9:Fc:792:ASN:HB2	1.59	0.68
9:Fd:61:PHE:HA	9:Fd:64:PHE:HB3	1.75	0.68
9:Fe:323:SER:HA	9:Fe:326:GLN:HE21	1.58	0.68
6:Ch:131:LYS:HA	7:Em:812:TRP:HZ3	1.58	0.68
6:Ch:196:LEU:HB2	6:Ch:226:LEU:HD13	1.74	0.68
9:Fc:129:MET:HE1	9:Fc:776:MET:HB3	1.76	0.68
9:Fc:760:ILE:HD12	9:Fc:930:PHE:CB	2.24	0.68
9:Fd:666:GLY:O	9:Fd:670:ILE:HG12	1.93	0.68
6:Cz:170:ARG:HD2	6:Cz:247:ALA:HB3	1.74	0.68
6:Dr:130:LEU:HD23	7:Es:808:LEU:HD12	1.76	0.68
9:Fc:702:THR:O	9:Fc:706:THR:HG23	1.94	0.68
9:Fe:605:MET:HE1	9:Fe:641:TYR:CD2	2.29	0.68
6:Ax:126:GLN:HA	6:Ax:129:LYS:HE2	1.75	0.68
8:Ey:427:TYR:O	8:Ey:430:ARG:HB2	1.94	0.68
9:Fc:698:ASN:HA	9:Fd:905:TRP:CH2	2.29	0.68
9:Fd:227:ARG:NH1	9:Fd:228:THR:HA	2.09	0.68
7:Fi:30:ILE:O	7:Fi:34:ILE:HG12	1.94	0.68
1:Dg:9:LEU:HD12	1:Dg:13:LYS:HE2	1.74	0.68
8:Ez:228:PRO:HG3	8:Ez:234:LYS:HG3	1.76	0.68
9:Fd:192:LEU:HB2	9:Fd:351:VAL:HG21	1.76	0.68
7:Fk:32:VAL:HG13	7:Fk:36:PHE:CE1	2.28	0.68
1:Da:16:ALA:HB3	2:Dh:9:ARG:HG3	1.76	0.67
6:Dr:236:PRO:HG2	6:Dr:238:MET:HE3	1.76	0.67
5:Dw:269:SER:HA	6:Dx:246:LYS:HE3	1.76	0.67
7:Ef:799:SER:O	7:Ef:803:THR:HG23	1.94	0.67
7:Es:808:LEU:HB3	7:Es:812:TRP:CZ2	2.29	0.67
9:Fc:648:PHE:CE2	9:Fc:720:PHE:HB3	2.29	0.67
9:Fd:78:TYR:HA	9:Fd:81:MET:HE2	1.74	0.67
7:Fg:30:ILE:O	7:Fg:34:ILE:HG13	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Af:138:GLU:CD	6:Ed:220:LEU:HD21	2.20	0.67
5:Ca:246:LEU:HG	5:Ca:255:LEU:HB2	1.76	0.67
8:Ey:444:LEU:HD11	8:Ez:439:THR:HB	1.75	0.67
9:Fc:745:ILE:HG23	9:Fc:919:THR:HG21	1.74	0.67
6:Ar:234:ASN:HD22	6:Ax:188:PRO:HG3	1.59	0.67
6:Cn:128:VAL:HG23	6:Cn:132:GLN:HE21	1.60	0.67
9:Fe:124:MET:HE3	9:Fe:124:MET:O	1.93	0.67
6:Ax:169:ILE:HD13	6:Ax:241:LEU:HD23	1.76	0.67
6:Dl:125:GLU:HG2	6:Dl:126:GLN:OE1	1.94	0.67
6:Ed:117:ARG:HE	7:Eu:797:ARG:HE	1.42	0.67
7:Ek:793:GLU:O	7:Ek:797:ARG:HG2	1.94	0.67
8:Ew:444:LEU:HD22	8:Ex:443:MET:HB3	1.76	0.67
8:Fa:434:GLU:HA	8:Fa:437:LEU:HG	1.76	0.67
7:Fj:25:ALA:O	7:Fj:29:ILE:HG12	1.95	0.67
6:Af:106:VAL:HA	6:Af:109:LYS:HG2	1.76	0.67
6:Bj:189:TRP:HE1	6:Bj:232:GLY:H	1.39	0.67
7:Et:814:GLN:HE22	7:Et:816:GLU:HB3	1.58	0.67
8:Ew:399:TRP:NE1	8:Ew:403:ILE:HD11	2.09	0.67
9:Fd:395:VAL:HB	9:Fd:397:GLN:HE22	1.59	0.67
5:De:264:PHE:HD1	5:De:269:SER:HB3	1.59	0.67
9:Fb:657:MET:HA	9:Fb:660:LEU:HD22	1.75	0.67
9:Fb:808:VAL:HG12	9:Fb:811:ARG:HH22	1.58	0.67
6:Ax:198:ASP:HA	7:Ei:816:GLU:HG3	1.76	0.67
2:Bl:4:MET:HE1	5:Bo:249:SER:N	2.09	0.67
1:Dm:12:HIS:CD2	3:Do:9:TYR:HB2	2.30	0.67
8:Ew:78:GLN:HE22	8:Ex:384:PHE:HB2	1.59	0.67
8:Ew:327:SER:CB	8:Ex:211:MET:HE1	2.24	0.67
8:Ey:352:SER:HA	8:Ey:355:LEU:HG	1.75	0.67
8:Ez:105:LYS:HE2	8:Fa:368:ILE:H	1.60	0.67
9:Fc:192:LEU:HB2	9:Fc:351:VAL:HG21	1.75	0.67
9:Ff:662:ILE:HG12	9:Ff:703:LEU:HB3	1.77	0.67
7:Eo:794:ILE:HD12	7:Eo:794:ILE:H	1.59	0.67
8:Fa:189:PHE:HA	8:Fa:295:LEU:HD21	1.76	0.67
8:Fa:441:SER:O	8:Fa:445:LEU:HD22	1.94	0.67
9:Fb:57:MET:O	9:Fb:60:MET:HG2	1.95	0.67
9:Fb:766:PHE:HA	9:Fb:769:LEU:HG	1.75	0.67
9:Fd:468:PHE:CG	9:Fd:757:PRO:HG2	2.30	0.67
9:Fd:819:TYR:CE1	9:Fd:823:ILE:HD11	2.30	0.67
9:Ff:815:MET:HB3	9:Ff:933:ILE:HG13	1.76	0.67
9:Ff:940:VAL:O	9:Ff:944:ILE:HG12	1.95	0.67
6:Ar:132:GLN:O	6:Ar:136:THR:HG23	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ar:219:LYS:HE3	6:Ar:222:ASN:ND2	2.09	0.67
3:Au:2:VAL:HG21	6:Bj:129:LYS:HD3	1.76	0.67
6:Ax:131:LYS:HE3	7:Eg:812:TRP:CH2	2.29	0.67
8:Ew:419:LEU:HD11	8:Ex:415:ILE:HG23	1.76	0.67
8:Ex:77:VAL:HG12	8:Ex:378:MET:HE1	1.76	0.67
8:Ex:245:SER:HA	8:Ex:279:PHE:CE2	2.30	0.67
8:Fa:206:TYR:CE2	8:Fa:208:ASN:HB2	2.26	0.67
9:Fc:604:TYR:HA	9:Fc:641:TYR:OH	1.95	0.67
9:Fd:714:SER:HB3	9:Fe:598:VAL:HG12	1.77	0.67
9:Fe:432:PRO:O	9:Fe:436:LEU:HD22	1.94	0.67
6:Bd:117:ARG:HE	7:Eh:797:ARG:HD2	1.59	0.67
7:En:794:ILE:H	7:En:794:ILE:HD12	1.60	0.67
8:Ex:91:VAL:HA	8:Ey:246:ASN:ND2	2.09	0.67
9:Fc:106:ARG:HG2	9:Fc:106:ARG:HH11	1.60	0.67
9:Fc:136:VAL:HG13	9:Fc:461:TRP:HE1	1.59	0.67
9:Fc:272:PHE:HB3	9:Fc:275:LEU:HD12	1.77	0.67
7:Fi:17:THR:O	7:Fi:21:ILE:HG12	1.95	0.67
6:Ax:115:MET:CE	7:Ef:801:MET:HB2	2.25	0.66
6:Ct:238:MET:HE1	6:Cz:251:ARG:HG3	1.76	0.66
8:Ew:111:LEU:HD23	8:Ex:386:PRO:HB3	1.75	0.66
9:Fb:651:MET:O	9:Fb:655:ILE:HG12	1.95	0.66
7:Fg:18:ARG:O	7:Fg:22:ILE:HG12	1.95	0.66
2:An:4:MET:HE1	5:Aq:249:SER:N	2.06	0.66
6:Ar:176:VAL:HA	6:Ar:216:GLN:OE1	1.95	0.66
8:Ex:56:GLN:HB2	8:Ex:59:LYS:HE3	1.77	0.66
8:Ex:144:GLN:HB2	8:Ex:179:PHE:CZ	2.30	0.66
9:Fb:205:TYR:HA	9:Fb:208:GLN:HE21	1.60	0.66
9:Fc:657:MET:O	9:Fc:661:MET:HB2	1.95	0.66
9:Fd:837:PHE:O	9:Fd:841:ILE:HG12	1.96	0.66
9:Fe:909:TYR:HD2	9:Fe:912:PHE:HE2	1.42	0.66
9:Ff:653:ASN:O	9:Ff:657:MET:HG2	1.96	0.66
9:Ff:770:ILE:HA	9:Ff:773:ILE:HD12	1.77	0.66
7:Fi:19:VAL:HA	7:Fi:22:ILE:HG12	1.77	0.66
5:Bi:216:ILE:HG12	5:Bi:221:TRP:HH2	1.60	0.66
6:Bv:108:ASP:HA	7:Ej:797:ARG:NH2	2.10	0.66
2:Cv:5:ILE:HD12	6:Df:139:TYR:HD2	1.59	0.66
6:Bd:219:LYS:HD2	6:Bd:222:ASN:HD22	1.60	0.66
4:Eb:2:PHE:HB3	5:Ec:251:GLN:HE21	1.60	0.66
8:Ex:418:LEU:O	8:Ex:421:GLU:HG2	1.95	0.66
9:Fb:132:ILE:O	9:Fb:136:VAL:HG23	1.96	0.66
9:Fc:928:LYS:HG3	9:Fc:929:ALA:N	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ff:685:PRO:HD2	9:Ff:827:TYR:HE1	1.60	0.66
6:Cb:110:LYS:HG3	7:Ek:797:ARG:NH2	2.11	0.66
6:Ct:205:GLN:HB3	7:Ep:820:TYR:CZ	2.30	0.66
6:Dr:194:TYR:HE2	6:Dr:196:LEU:HB2	1.59	0.66
7:Ej:806:THR:O	7:Ej:810:GLN:HG2	1.95	0.66
8:Ew:234:LYS:HA	8:Ew:237:GLN:HE21	1.60	0.66
8:Ey:433:GLN:HA	8:Ey:436:ILE:HG12	1.77	0.66
9:Fd:326:GLN:HA	9:Fd:329:ARG:HE	1.60	0.66
9:Fd:652:ILE:HA	9:Fd:655:ILE:HD12	1.77	0.66
9:Fc:693:GLY:HA2	9:Fc:696:TYR:CD2	2.30	0.66
1:Ag:12:HIS:CD2	3:Ai:9:TYR:HB2	2.30	0.66
6:Ar:169:ILE:HD11	6:Ar:239:LEU:HB3	1.77	0.66
6:Cn:208:LYS:HD2	7:Ep:823:GLY:HA2	1.78	0.66
6:Cz:145:PRO:HD3	6:Df:131:LYS:HE2	1.77	0.66
8:Ew:419:LEU:HB2	8:Ex:418:LEU:HD23	1.78	0.66
9:Fb:630:ASP:HA	9:Fb:634:ASN:HB2	1.76	0.66
9:Fc:572:ASN:HA	9:Fc:575:MET:HE3	1.77	0.66
9:Fc:753:ILE:HG23	9:Fc:926:VAL:HG21	1.76	0.66
6:Bp:115:MET:HE1	7:Ei:798:THR:HG23	1.78	0.66
6:Ct:171:LEU:HD12	6:Ct:172:SER:H	1.60	0.66
8:Fa:208:ASN:HA	8:Fa:211:MET:SD	2.35	0.66
9:Fb:188:GLN:HA	9:Fb:191:MET:HG2	1.78	0.66
9:Fb:818:GLY:HA3	9:Fb:936:LEU:HD11	1.78	0.66
9:Fc:180:GLY:HA3	9:Fc:491:LEU:HB3	1.78	0.66
9:Fd:103:ILE:HG13	9:Fd:104:PRO:HD3	1.78	0.66
9:Fe:266:PHE:H	9:Fe:276:ASN:HD21	1.43	0.66
9:Ff:566:THR:HG23	9:Ff:569:GLY:H	1.61	0.66
6:Bp:236:PRO:HG2	6:Bv:251:ARG:HH21	1.61	0.66
6:Bv:233:LEU:HD12	6:Bv:234:ASN:H	1.60	0.66
6:Ct:128:VAL:HG23	6:Ct:132:GLN:NE2	2.11	0.66
8:Ey:419:LEU:C	8:Ey:419:LEU:HD12	2.21	0.66
9:Fb:594:ILE:HG23	9:Ff:705:LEU:HD12	1.78	0.66
9:Fc:268:LYS:HZ3	9:Fd:404:SER:H	1.44	0.66
9:Ff:685:PRO:HG3	9:Ff:831:TRP:HE1	1.59	0.66
6:Bv:136:THR:HA	6:Bv:139:TYR:CD2	2.31	0.66
8:Ey:431:GLN:HE21	8:Ey:435:ARG:HD2	1.61	0.66
8:Ez:418:LEU:HD12	8:Ez:419:LEU:N	2.10	0.66
8:Fa:207:GLN:HB2	8:Fa:289:PRO:HG2	1.78	0.66
5:Dk:269:SER:HA	6:Dl:246:LYS:HZ2	1.60	0.65
7:Ei:805:ALA:O	7:Ei:809:VAL:HG23	1.95	0.65
8:Ez:430:ARG:HH22	8:Fa:425:GLN:HG3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fb:242:LYS:HD2	9:Fb:261:LEU:HD23	1.79	0.65
9:Fd:917:ILE:HD12	9:Fd:920:SER:HB2	1.78	0.65
1:Co:6:LEU:HA	1:Co:9:LEU:HG	1.77	0.65
3:Cq:2:VAL:HG22	3:Cq:8:VAL:HG13	1.77	0.65
6:Ed:132:GLN:O	6:Ed:136:THR:HG23	1.95	0.65
7:Em:799:SER:O	7:Em:803:THR:HG23	1.97	0.65
7:Ev:792:GLN:HA	7:Ev:795:GLN:NE2	2.11	0.65
8:Ez:430:ARG:HH12	8:Fa:425:GLN:CG	2.08	0.65
9:Fc:814:LEU:HA	9:Fc:817:ILE:HD12	1.76	0.65
9:Fc:825:LEU:HD11	9:Fc:928:LYS:HE3	1.78	0.65
6:Cz:169:ILE:HG12	6:Cz:179:LEU:HD11	1.77	0.65
6:Df:121:PRO:HB2	7:Eq:797:ARG:NH1	2.11	0.65
8:Ex:419:LEU:HA	8:Ex:422:ILE:HG12	1.78	0.65
8:Ey:430:ARG:HH22	8:Ez:428:LEU:HB2	1.60	0.65
8:Ez:102:VAL:HG21	8:Ez:106:VAL:HG12	1.77	0.65
9:Fb:103:ILE:HD12	9:Fb:104:PRO:CD	2.25	0.65
9:Fb:828:VAL:HA	9:Fb:831:TRP:CE3	2.31	0.65
9:Fc:243:GLN:HE22	9:Fc:330:LEU:HD22	1.61	0.65
9:Fe:146:ALA:O	9:Fe:150:LEU:HD22	1.95	0.65
9:Fe:266:PHE:HE2	9:Fe:275:LEU:HB2	1.60	0.65
9:Ff:942:ARG:C	9:Ff:942:ARG:HE	2.03	0.65
6:Bd:181:PHE:HZ	6:Bd:213:LEU:HB2	1.62	0.65
2:Bf:4:MET:HE1	5:Bi:250:LEU:HG	1.78	0.65
6:Bv:219:LYS:HG3	6:Bv:222:ASN:HB2	1.79	0.65
6:Cb:208:LYS:HG3	7:En:824:THR:HG22	1.78	0.65
6:Cz:179:LEU:HD13	6:Cz:254:LEU:HD21	1.79	0.65
7:Ei:782:ASN:HA	9:Fd:241:LYS:HD2	1.78	0.65
8:Ez:334:ARG:HH22	8:Fa:215:ILE:HD13	1.61	0.65
9:Fd:723:PHE:HD1	9:Fd:726:ALA:HB3	1.62	0.65
9:Fe:837:PHE:CG	9:Fe:918:TYR:HE1	2.14	0.65
6:Bd:129:LYS:O	6:Bd:133:ILE:HG12	1.96	0.65
6:Bp:204:ILE:HG13	6:Bp:215:ILE:HD13	1.78	0.65
9:Fb:261:LEU:HD21	9:Fb:265:ASN:HD21	1.62	0.65
9:Fc:107:SER:HA	9:Fc:787:THR:HG22	1.78	0.65
9:Fc:756:LEU:HA	9:Fc:759:MET:HG2	1.79	0.65
5:Bo:250:LEU:HD12	5:Bo:251:GLN:HG3	1.79	0.65
6:Bp:206:TRP:HB2	6:Bp:213:LEU:HD23	1.79	0.65
6:Df:182:LEU:HD13	6:Df:186:GLY:HA2	1.78	0.65
2:Dh:4:MET:HE1	5:Dk:249:SER:H	1.60	0.65
8:Ey:136:ILE:HD13	8:Ey:277:LEU:HD23	1.79	0.65
8:Fa:68:LEU:HA	8:Fa:410:THR:HG23	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fb:537:VAL:HG13	9:Fb:542:GLN:HA	1.79	0.65
7:Fj:36:PHE:HA	7:Fj:39:ILE:HD12	1.79	0.65
5:Ae:213:GLN:HG3	6:Af:168:VAL:HG21	1.79	0.65
5:Ae:246:LEU:HD12	5:Ae:255:LEU:HB2	1.77	0.65
6:Ar:216:GLN:HE21	7:Eg:818:GLN:NE2	1.94	0.65
3:Ba:2:VAL:HG22	3:Ba:8:VAL:HG23	1.78	0.65
6:Bp:112:PHE:O	6:Bp:116:THR:HG23	1.95	0.65
6:Bv:111:ALA:HB3	7:Ej:797:ARG:NH2	2.11	0.65
7:Eg:807:GLN:HB3	7:Eg:810:GLN:HE21	1.61	0.65
8:Ew:420:ALA:O	8:Ew:424:TYR:HD1	1.79	0.65
8:Ey:178:VAL:HG13	8:Ez:240:ILE:HD11	1.79	0.65
9:Fd:260:GLU:HG2	9:Fd:283:LYS:HD2	1.79	0.65
9:Fe:758:TYR:O	9:Fe:762:THR:HG23	1.96	0.65
5:Ak:234:GLU:HA	5:Ak:247:ILE:HD11	1.79	0.65
6:Bd:208:LYS:NZ	7:Ej:821:THR:HG22	2.10	0.65
6:Ch:166:PRO:HB3	6:Cn:250:TYR:HE2	1.60	0.65
6:Cz:112:PHE:HA	6:Cz:115:MET:HE3	1.78	0.65
8:Ew:83:ASN:HA	8:Ew:115:LEU:HD21	1.79	0.65
5:Aq:216:ILE:HD11	6:Ax:148:PRO:HG2	1.77	0.65
6:Bv:126:GLN:HB3	6:Cb:112:PHE:CE2	2.31	0.65
6:Ed:203:ASN:ND2	7:Ev:818:GLN:HE22	1.95	0.65
8:Ew:331:ASN:O	8:Ew:335:VAL:HG22	1.96	0.65
8:Ey:253:LEU:HD22	8:Ey:373:LEU:HD22	1.79	0.65
9:Fb:939:LYS:HG3	9:Fb:940:VAL:N	2.11	0.65
9:Fc:741:THR:O	9:Fc:745:ILE:HG12	1.97	0.65
9:Fc:828:VAL:O	9:Fc:832:ILE:HG12	1.97	0.65
9:Fd:608:GLN:H	9:Fd:634:ASN:HD21	1.43	0.65
6:Bj:182:LEU:HG	6:Bj:255:ARG:HE	1.62	0.65
1:Cc:15:ASN:HB3	2:Cj:9:ARG:HH12	1.61	0.65
6:Dx:111:ALA:HB3	7:Es:797:ARG:NH2	2.12	0.65
8:Ey:36:THR:HA	8:Ey:39:LEU:HD23	1.79	0.65
8:Ey:422:ILE:HD13	8:Ey:425:GLN:HE21	1.61	0.65
8:Ez:206:TYR:CE1	8:Ez:208:ASN:HB2	2.32	0.65
8:Ez:424:TYR:CE2	8:Fa:383:LEU:HB2	2.32	0.65
8:Fa:381:ARG:HG3	8:Fa:382:ARG:HE	1.61	0.65
9:Fc:57:MET:HB3	9:Fc:61:PHE:CE1	2.31	0.65
9:Fc:461:TRP:CD1	9:Fc:461:TRP:H	2.15	0.65
9:Fc:670:ILE:HD12	9:Fc:696:TYR:HD1	1.61	0.65
9:Fe:612:CYS:HB2	9:Fe:626:ARG:HE	1.61	0.65
4:Ad:3:GLY:HA3	1:Dy:16:ALA:HA	1.78	0.64
6:Bv:121:PRO:HB2	7:Ek:801:MET:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Dr:204:ILE:HG13	6:Dr:215:ILE:HD13	1.77	0.64
9:Fc:745:ILE:O	9:Fc:749:THR:HG22	1.97	0.64
9:Fd:905:TRP:CE3	9:Fd:909:TYR:HE1	2.16	0.64
3:Bm:11:ALA:HB1	3:Bm:14:TYR:HE2	1.61	0.64
6:Ct:206:TRP:HB2	6:Ct:213:LEU:HD23	1.80	0.64
7:Ej:771:ALA:O	7:Ej:775:GLN:HG2	1.97	0.64
8:Ex:352:SER:HA	8:Ex:355:LEU:HG	1.79	0.64
8:Ex:424:TYR:O	8:Ex:428:LEU:HD12	1.97	0.64
8:Fa:248:LEU:HD23	8:Fa:279:PHE:HD2	1.61	0.64
9:Fc:673:VAL:O	9:Fc:677:THR:HG23	1.97	0.64
9:Ff:57:MET:HB3	9:Ff:61:PHE:HE1	1.61	0.64
7:Fj:33:VAL:HA	7:Fj:36:PHE:CD1	2.32	0.64
5:Bi:218:GLY:HA3	6:Bp:148:PRO:HD3	1.80	0.64
5:Bo:219:ARG:HG2	6:Bv:148:PRO:HD2	1.77	0.64
6:Cn:189:TRP:CD1	6:Cn:230:LEU:HD11	2.32	0.64
6:Ct:111:ALA:HB3	7:En:797:ARG:CZ	2.27	0.64
2:Dn:2:VAL:HA	3:Do:1:ARG:HE	1.61	0.64
8:Ey:211:MET:HA	8:Ey:214:VAL:HG23	1.80	0.64
5:Ae:219:ARG:HG2	6:Al:148:PRO:HD2	1.78	0.64
6:Af:106:VAL:HG23	6:Af:110:LYS:NZ	2.12	0.64
5:Bi:219:ARG:HH21	5:Bi:231:THR:HG23	1.62	0.64
6:Ch:205:GLN:HB2	6:Ch:214:MET:SD	2.36	0.64
6:Cz:105:GLU:OE2	6:Cz:109:LYS:HD3	1.96	0.64
8:Ew:427:TYR:CD1	8:Ew:428:LEU:HD13	2.32	0.64
8:Ez:428:LEU:HA	8:Ez:431:GLN:HG2	1.79	0.64
9:Fb:33:LEU:HB2	9:Fb:462:ILE:HD11	1.80	0.64
6:Bd:206:TRP:HB2	6:Bd:213:LEU:HD23	1.79	0.64
6:Bj:179:LEU:HB3	6:Bj:254:LEU:HD11	1.80	0.64
5:Bu:216:ILE:HD11	6:Cb:148:PRO:HG2	1.78	0.64
8:Ew:43:LEU:HD11	8:Ex:42:TYR:CD2	2.32	0.64
8:Ew:211:MET:HA	8:Ew:214:VAL:HG23	1.78	0.64
8:Fa:352:SER:HA	8:Fa:355:LEU:HG	1.79	0.64
9:Fd:696:TYR:CZ	9:Fd:742:MET:HA	2.33	0.64
6:Bv:123:ASN:H	6:Bv:126:GLN:NE2	1.96	0.64
1:Cu:16:ALA:HA	4:Dd:3:GLY:HA3	1.80	0.64
6:Dr:107:ILE:O	6:Dr:111:ALA:HB2	1.97	0.64
7:Ef:794:ILE:O	7:Ef:798:THR:HG23	1.97	0.64
8:Ew:380:THR:HA	8:Fa:424:TYR:HE2	1.60	0.64
8:Ex:331:ASN:HD21	8:Ey:211:MET:HB2	1.63	0.64
8:Ey:330:PHE:HB2	8:Ey:334:ARG:NH2	2.13	0.64
8:Ey:336:TYR:O	8:Ey:340:THR:HG23	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ey:423:ASN:HD22	8:Ez:382:ARG:NH2	1.94	0.64
8:Ez:417:ILE:O	8:Ez:420:ALA:HB3	1.98	0.64
9:Fc:136:VAL:HG22	9:Fc:461:TRP:HZ2	1.62	0.64
9:Fc:930:PHE:HA	9:Fc:933:ILE:HD12	1.78	0.64
9:Ff:820:ILE:HA	9:Ff:823:ILE:HD12	1.80	0.64
6:Af:190:PRO:O	6:Af:231:ARG:HG2	1.98	0.64
6:Bp:126:GLN:HA	6:Bp:129:LYS:HE2	1.79	0.64
3:Cq:2:VAL:HG11	6:Df:129:LYS:HE3	1.78	0.64
6:Ct:117:ARG:NH1	6:Ct:121:PRO:HB3	2.13	0.64
8:Ex:136:ILE:HD11	8:Ex:273:ALA:HB1	1.80	0.64
8:Ex:141:LEU:HB3	8:Ex:213:ASN:HB3	1.79	0.64
8:Ey:330:PHE:HA	8:Ey:333:LEU:HG	1.78	0.64
9:Ff:140:ASP:O	9:Ff:144:GLU:HG2	1.97	0.64
9:Ff:330:LEU:O	9:Ff:334:ILE:HG12	1.97	0.64
9:Ff:921:MET:O	9:Ff:925:ILE:HB	1.98	0.64
6:Bv:150:LYS:HG2	6:Bv:152:THR:HG23	1.80	0.64
6:Df:249:ASP:HB3	6:Df:252:VAL:HG23	1.79	0.64
5:Dq:214:ALA:HB3	5:Dq:221:TRP:CD1	2.32	0.64
6:Dx:112:PHE:HA	6:Dx:115:MET:SD	2.38	0.64
8:Ey:437:LEU:HD11	8:Ez:435:ARG:HB3	1.78	0.64
9:Fb:773:ILE:O	9:Fb:777:VAL:HG23	1.97	0.64
9:Fd:124:MET:HE1	9:Fd:780:PRO:HA	1.79	0.64
9:Fd:690:ALA:O	9:Fd:694:THR:HG23	1.97	0.64
9:Ff:259:PHE:HE2	9:Ff:286:ASN:HB2	1.61	0.64
6:Al:114:ASP:HA	6:Al:117:ARG:HG2	1.80	0.64
6:Al:203:ASN:HD21	7:Ef:817:THR:HG23	1.63	0.64
6:Dl:173:GLN:HB2	6:Dl:220:LEU:HA	1.78	0.64
6:Dr:201:SER:C	6:Dr:202:PHE:HD2	2.06	0.64
9:Fb:266:PHE:HE2	9:Fb:275:LEU:HB2	1.62	0.64
9:Fe:49:LEU:HD13	9:Fe:51:GLY:H	1.63	0.64
9:Fe:605:MET:HE3	9:Fe:605:MET:H	1.63	0.64
6:Bv:204:ILE:HD11	6:Bv:213:LEU:HD22	1.80	0.64
6:Ch:131:LYS:HA	7:Em:812:TRP:CZ3	2.32	0.64
6:Cn:129:LYS:HE2	6:Ct:112:PHE:CE2	2.33	0.64
6:Dl:109:LYS:HB2	6:Dl:113:LYS:HZ3	1.63	0.64
6:Dl:205:GLN:HB2	6:Dl:214:MET:HE3	1.79	0.64
8:Ez:208:ASN:HA	8:Ez:211:MET:SD	2.38	0.64
8:Fa:77:VAL:HG12	8:Fa:378:MET:HE1	1.80	0.64
8:Fa:399:TRP:HH2	8:Fa:418:LEU:HD22	1.63	0.64
9:Fb:520:PHE:HE2	9:Fb:526:LYS:HB2	1.63	0.64
9:Fc:841:ILE:HD12	9:Fc:844:ILE:HB	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Cz:106:VAL:HG23	6:Cz:110:LYS:NZ	2.14	0.63
2:Dt:5:ILE:HD12	6:Ed:139:TYR:CD2	2.33	0.63
6:Ed:168:VAL:HG13	6:Ed:242:ILE:HD13	1.80	0.63
7:Em:808:LEU:O	7:Em:812:TRP:HD1	1.81	0.63
7:Er:809:VAL:HA	7:Er:812:TRP:CD1	2.32	0.63
8:Ez:174:VAL:O	8:Ez:178:VAL:HG23	1.98	0.63
8:Ez:317:VAL:HG13	8:Fa:198:TRP:HE1	1.63	0.63
8:Ez:418:LEU:HA	8:Ez:421:GLU:OE2	1.97	0.63
9:Fd:664:LEU:O	9:Fd:668:LYS:HB3	1.98	0.63
9:Fe:655:ILE:HG23	9:Fe:659:PHE:CE2	2.33	0.63
9:Fe:663:PRO:O	9:Fe:667:MET:CB	2.41	0.63
9:Ff:665:GLN:HA	9:Ff:668:LYS:HG2	1.80	0.63
7:Fi:16:ARG:O	7:Fi:20:ILE:HG12	1.97	0.63
2:Db:4:MET:HE1	5:De:249:SER:N	2.13	0.63
6:Df:107:ILE:HG23	7:Ep:794:ILE:HG22	1.80	0.63
6:Dx:202:PHE:HB3	6:Dx:215:ILE:HD11	1.80	0.63
8:Ex:441:SER:O	8:Ex:445:LEU:HD22	1.97	0.63
8:Ey:142:ILE:HA	8:Ey:210:VAL:HG23	1.80	0.63
8:Ez:435:ARG:O	8:Ez:439:THR:HG23	1.98	0.63
9:Ff:905:TRP:HB2	9:Ff:909:TYR:HE1	1.62	0.63
6:Ar:169:ILE:HD13	6:Ar:241:LEU:HD13	1.80	0.63
5:Bi:243:MET:HE2	5:Bi:243:MET:HA	1.79	0.63
6:Bp:115:MET:HG3	7:Ei:801:MET:SD	2.38	0.63
6:Cn:234:ASN:HD21	6:Ct:182:LEU:HD21	1.64	0.63
6:Df:225:ASN:HD21	6:Dl:176:VAL:N	1.96	0.63
5:Dq:245:LYS:HB2	5:Dq:246:LEU:HD12	1.79	0.63
6:Dr:122:LEU:HB3	6:Dr:127:VAL:HG12	1.79	0.63
7:El:814:GLN:HE22	7:El:816:GLU:HB3	1.63	0.63
8:Ew:427:TYR:HA	8:Ew:430:ARG:HG3	1.80	0.63
8:Ey:347:LEU:HA	8:Ey:350:ILE:HD12	1.80	0.63
9:Fb:196:LYS:HG2	9:Fb:357:PHE:HB3	1.80	0.63
9:Fb:723:PHE:HZ	9:Ff:724:ILE:HD11	1.63	0.63
9:Fb:768:TRP:HA	9:Fb:811:ARG:HE	1.63	0.63
9:Fc:767:ALA:HA	9:Fc:770:ILE:HD12	1.80	0.63
9:Fd:616:LYS:HD2	9:Fd:621:SER:HB3	1.80	0.63
9:Fe:37:PHE:CE2	9:Ff:832:ILE:HD13	2.33	0.63
9:Ff:663:PRO:O	9:Ff:667:MET:HG3	1.98	0.63
5:Aw:219:ARG:NH1	5:Aw:233:ARG:HB3	2.13	0.63
2:Az:5:ILE:HD11	6:Bj:139:TYR:HE2	1.63	0.63
6:Bd:221:TYR:CE1	6:Bj:139:TYR:HB2	2.33	0.63
6:Bv:173:GLN:HE22	6:Bv:218:THR:C	2.06	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Cb:115:MET:HE1	7:Ek:798:THR:O	1.99	0.63
8:Ew:340:THR:HG22	8:Fa:448:LEU:HD13	1.79	0.63
8:Ew:444:LEU:O	8:Ew:448:LEU:HG	1.99	0.63
8:Ez:427:TYR:O	8:Ez:430:ARG:HG2	1.98	0.63
9:Fd:752:TYR:HE1	9:Fd:927:GLN:HE22	1.47	0.63
9:Fe:180:GLY:HA3	9:Fe:491:LEU:HB3	1.81	0.63
9:Fe:548:PRO:HD3	9:Fe:568:TYR:HD2	1.63	0.63
9:Ff:756:LEU:O	9:Ff:759:MET:HB3	1.97	0.63
7:Fh:29:ILE:O	7:Fh:33:VAL:HG13	1.97	0.63
7:Fk:23:PHE:O	7:Fk:27:LEU:HD22	1.98	0.63
6:Af:181:PHE:HZ	6:Af:213:LEU:HD12	1.63	0.63
6:Bj:225:ASN:HD21	6:Bp:176:VAL:N	1.97	0.63
6:Bj:228:VAL:HG13	6:Bj:237:VAL:HB	1.79	0.63
6:Df:129:LYS:HE2	6:Df:132:GLN:HE21	1.64	0.63
6:Dl:181:PHE:HE2	6:Dl:191:ILE:HD11	1.64	0.63
6:Dr:121:PRO:HB2	7:Es:801:MET:HB3	1.81	0.63
8:Ez:129:SER:HB2	8:Ez:137:THR:HG21	1.80	0.63
8:Ez:430:ARG:HB3	8:Fa:429:ASP:OD1	1.99	0.63
9:Fb:644:PHE:HB3	9:Fb:720:PHE:CE2	2.34	0.63
9:Fd:624:LEU:HD23	9:Fd:628:MET:HE3	1.80	0.63
9:Fd:636:VAL:O	9:Fd:640:VAL:HG12	1.99	0.63
9:Fe:652:ILE:O	9:Fe:656:VAL:HG22	1.98	0.63
9:Ff:104:PRO:O	9:Ff:108:THR:HG23	1.98	0.63
9:Ff:110:GLY:O	9:Ff:114:LEU:HD12	1.98	0.63
9:Ff:420:LEU:HD11	9:Ff:577:VAL:HG23	1.81	0.63
9:Ff:773:ILE:O	9:Ff:777:VAL:HG23	1.99	0.63
7:Fg:34:ILE:HA	7:Fg:38:LYS:NZ	2.13	0.63
5:Bo:219:ARG:HA	5:Bo:232:VAL:O	1.97	0.63
6:Ch:131:LYS:HG2	7:Em:812:TRP:HH2	1.63	0.63
5:De:213:GLN:HG3	6:Df:168:VAL:HG21	1.81	0.63
8:Ex:75:GLN:HE21	8:Ex:79:ASN:HD21	1.46	0.63
8:Ez:298:TYR:HA	8:Ez:301:LEU:HD11	1.81	0.63
9:Fd:640:VAL:HG22	9:Fd:644:PHE:CZ	2.33	0.63
6:Al:196:LEU:HD13	6:Al:199:PRO:HB3	1.81	0.63
6:Bp:126:GLN:O	6:Bp:130:LEU:HD12	1.98	0.63
5:Cm:213:GLN:HB2	5:Cm:223:ILE:HG22	1.81	0.63
6:Cn:189:TRP:CG	6:Cn:230:LEU:HD11	2.34	0.63
6:Ct:111:ALA:HB2	7:En:794:ILE:HG23	1.80	0.63
7:Eh:794:ILE:H	7:Eh:794:ILE:HD12	1.64	0.63
7:Et:796:GLN:NE2	9:Ff:228:THR:HA	2.14	0.63
8:Ew:78:GLN:HE21	8:Ex:383:LEU:HG	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ey:271:SER:HB2	8:Ey:274:GLN:HG2	1.80	0.63
8:Ey:435:ARG:O	8:Ey:439:THR:HG23	1.99	0.63
5:Bo:216:ILE:HD11	6:Bv:148:PRO:HG2	1.80	0.63
6:Bp:144:THR:OG1	6:Bp:148:PRO:HG3	1.99	0.63
6:Bv:137:SER:HB3	6:Cb:120:TYR:CZ	2.34	0.63
6:Cz:225:ASN:ND2	6:Df:176:VAL:H	1.97	0.63
7: Ei:778:LEU:HD21	9:Fd:240:VAL:HB	1.81	0.63
8:Ex:302:TRP:CZ3	8:Ey:218:LEU:HG	2.34	0.63
8:Ey:343:GLY:HA2	8:Ey:346:ASN:HD21	1.63	0.63
8:Fa:209:LEU:CA	8:Fa:212:GLN:HE21	2.08	0.63
9:Fb:636:VAL:O	9:Fb:640:VAL:HG12	1.97	0.63
9:Fb:699:PHE:CD2	9:Fb:742:MET:HE2	2.33	0.63
9:Fc:554:PRO:HG2	9:Fc:588:LEU:HD21	1.79	0.63
6:Bv:147:THR:HG23	6:Bv:246:LYS:NZ	2.14	0.63
6:Ct:169:ILE:HD12	6:Ct:252:VAL:HG21	1.79	0.63
6:Dl:169:ILE:HG23	6:Dl:241:LEU:HA	1.81	0.63
6:Ed:115:MET:HE2	7:Et:801:MET:HE3	1.81	0.63
7:Et:781:GLN:NE2	9:Ff:241:LYS:HB2	2.14	0.63
8:Ex:78:GLN:OE1	8:Ey:383:LEU:HG	1.99	0.63
8:Fa:381:ARG:HG3	8:Fa:382:ARG:NE	2.14	0.63
8:Fa:435:ARG:O	8:Fa:439:THR:HG23	1.99	0.63
9:Fb:673:VAL:O	9:Fb:677:THR:HG23	1.98	0.63
9:Fb:813:SER:O	9:Fb:817:ILE:HG12	1.99	0.63
9:Fd:648:PHE:O	9:Fd:652:ILE:HG22	1.99	0.63
6:Ax:149:PRO:HB2	6:Ax:248:VAL:HG12	1.81	0.62
6:Bv:114:ASP:HB2	6:Bv:117:ARG:NH2	2.14	0.62
5:Dk:237:LYS:H	5:Dq:266:GLN:HE22	1.46	0.62
6:Dl:170:ARG:HE	6:Dl:249:ASP:HB2	1.63	0.62
8:Ez:277:LEU:HD21	8:Ez:281:ARG:HH21	1.64	0.62
9:Fb:295:GLN:NE2	9:Fb:303:THR:H	1.95	0.62
9:Fb:548:PRO:HD3	9:Fb:568:TYR:CE1	2.34	0.62
9:Fc:125:GLN:O	9:Fc:129:MET:HG2	1.99	0.62
9:Fe:566:THR:HG23	9:Fe:569:GLY:H	1.64	0.62
9:Fe:651:MET:O	9:Fe:655:ILE:HD13	1.99	0.62
9:Ff:773:ILE:HA	9:Ff:776:MET:HG3	1.81	0.62
7:Fj:30:ILE:O	7:Fj:34:ILE:HG12	1.98	0.62
6:Al:150:LYS:HG2	6:Al:152:THR:HG23	1.80	0.62
6:Bd:204:ILE:HD11	6:Bd:213:LEU:HD22	1.81	0.62
2:Bl:2:VAL:HA	3:Bm:1:ARG:HE	1.63	0.62
6:Ch:206:TRP:HB2	6:Ch:213:LEU:HD23	1.81	0.62
8:Ey:448:LEU:HB2	8:Ez:336:TYR:HE1	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Fa:214:VAL:HA	8:Fa:267:LEU:HD23	1.80	0.62
9:Fb:190:CYS:O	9:Fb:194:LEU:HB3	1.99	0.62
9:Fb:507:LYS:HE2	9:Fc:630:ASP:HB2	1.80	0.62
9:Fc:612:CYS:HB3	9:Fc:626:ARG:H	1.64	0.62
9:Fd:920:SER:O	9:Fd:924:ILE:HD12	1.99	0.62
5:Ak:248:ASP:HB3	5:Ak:253:ARG:HB3	1.81	0.62
6:Ar:179:LEU:HD22	6:Ar:252:VAL:HG12	1.81	0.62
6:Bv:145:PRO:HG3	6:Cb:131:LYS:HG2	1.81	0.62
6:Bv:228:VAL:HG13	6:Bv:237:VAL:HB	1.80	0.62
3:Cw:2:VAL:HG22	3:Cw:8:VAL:HG12	1.82	0.62
5:Dk:246:LEU:HD22	5:Dk:255:LEU:HD23	1.81	0.62
6:Dr:219:LYS:HD2	6:Dr:220:LEU:N	2.14	0.62
8:Fa:74:VAL:O	8:Fa:78:GLN:HB3	1.99	0.62
9:Fb:647:ILE:HG13	9:Fb:717:ILE:HD12	1.81	0.62
9:Fc:56:ILE:O	9:Fc:60:MET:HG2	2.00	0.62
9:Fc:643:PHE:CE1	9:Fc:647:ILE:HD11	2.35	0.62
9:Fc:716:LEU:HB3	9:Fd:723:PHE:HD2	1.64	0.62
9:Ff:693:GLY:HA3	9:Ff:750:ALA:HB2	1.80	0.62
6:Al:206:TRP:HB2	6:Al:213:LEU:HD23	1.80	0.62
6:Bp:107:ILE:HD11	7:Ei:794:ILE:HG13	1.81	0.62
5:Cs:210:TYR:HA	5:Cs:224:GLY:HA2	1.79	0.62
8:Ew:435:ARG:O	8:Ew:439:THR:HG23	2.00	0.62
9:Fb:527:LEU:HA	9:Fb:530:ILE:HD13	1.81	0.62
9:Fb:663:PRO:HA	9:Fb:699:PHE:HZ	1.65	0.62
9:Fd:501:LEU:H	9:Fd:501:LEU:HD12	1.64	0.62
9:Fd:598:VAL:HG21	9:Fd:652:ILE:HD13	1.82	0.62
9:Fd:806:VAL:O	9:Fd:810:LEU:HG	2.00	0.62
6:Al:169:ILE:HD11	6:Al:239:LEU:HD12	1.81	0.62
8:Ey:178:VAL:HA	8:Ey:181:ILE:HG12	1.82	0.62
9:Fe:323:SER:HA	9:Fe:326:GLN:NE2	2.14	0.62
9:Fe:704:TRP:HA	9:Fe:707:LEU:HD12	1.81	0.62
9:Ff:643:PHE:O	9:Ff:647:ILE:HG12	1.99	0.62
6:Cn:141:LYS:HE3	7:Eo:812:TRP:CE2	2.35	0.62
6:Dx:115:MET:HA	6:Dx:118:ASN:OD1	2.00	0.62
8:Ew:241:SER:HB2	8:Fa:94:MET:HE1	1.81	0.62
8:Ez:89:ILE:HG22	8:Ez:349:TYR:HE1	1.63	0.62
9:Fb:434:LEU:HA	9:Fb:437:ILE:HG22	1.81	0.62
9:Fd:139:ALA:HB2	9:Fd:812:PRO:HB2	1.81	0.62
9:Fd:909:TYR:HA	9:Fd:912:PHE:CD2	2.35	0.62
9:Fe:674:GLY:HA2	9:Fe:692:MET:HE2	1.81	0.62
6:Al:218:THR:HA	7:Ef:815:VAL:HG11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ar:121:PRO:HB2	7:Ef:801:MET:HE1	1.82	0.62
6:Ar:134:TYR:O	6:Ar:138:GLU:HG3	2.00	0.62
6:Cn:150:LYS:HG2	6:Cn:152:THR:HG23	1.81	0.62
5:De:238:ILE:HD12	5:De:239:PRO:HD2	1.82	0.62
6:Dx:136:THR:HA	6:Dx:139:TYR:CD1	2.34	0.62
8:Ew:283:ALA:HA	8:Fa:339:GLN:HE22	1.63	0.62
8:Ex:428:LEU:O	8:Ex:432:ILE:HG13	1.99	0.62
8:Ez:382:ARG:O	8:Ez:399:TRP:HB3	1.99	0.62
9:Fb:57:MET:HA	9:Fb:60:MET:SD	2.39	0.62
9:Fb:770:ILE:HA	9:Fb:773:ILE:HD12	1.82	0.62
9:Fe:383:LYS:HD2	9:Fe:387:GLU:HB2	1.80	0.62
9:Ff:612:CYS:HB2	9:Ff:626:ARG:HE	1.64	0.62
5:Cm:210:TYR:CG	5:Cm:222:LEU:HD21	2.35	0.62
7:Ee:804:ALA:O	7:Ee:808:LEU:HD22	1.99	0.62
7:En:799:SER:O	7:En:803:THR:HG23	2.00	0.62
7:Es:799:SER:O	7:Es:803:THR:HG23	2.00	0.62
8:Ez:412:GLN:HA	8:Ez:415:ILE:HG12	1.79	0.62
9:Fb:180:GLY:HA3	9:Fb:491:LEU:HB3	1.80	0.62
9:Fd:69:LEU:HD11	7:Fk:31:ALA:HB1	1.82	0.62
7:Fh:17:THR:HG22	7:Fh:21:ILE:HD11	1.82	0.62
7:Fk:34:ILE:O	7:Fk:38:LYS:HG2	1.99	0.62
6:Al:129:LYS:HG3	6:Ar:112:PHE:CZ	2.35	0.62
7:Ei:799:SER:O	7:Ei:803:THR:HG23	2.00	0.62
7:Ej:799:SER:HA	7:Ej:802:LEU:HD23	1.81	0.62
8:Ew:281:ARG:HB3	8:Ew:286:GLN:NE2	2.14	0.62
8:Ex:432:ILE:O	8:Ex:436:ILE:HD12	1.99	0.62
9:Fc:656:VAL:HG12	9:Fc:660:LEU:HD23	1.81	0.62
9:Fc:758:TYR:O	9:Fc:762:THR:HG23	1.99	0.62
9:Ff:402:VAL:HG12	9:Ff:404:SER:H	1.64	0.62
3:Au:2:VAL:HG22	3:Au:8:VAL:HG12	1.81	0.62
1:Ay:9:LEU:O	1:Ay:13:LYS:HG2	2.00	0.62
6:Bp:219:LYS:HE3	6:Bp:222:ASN:H	1.65	0.62
1:Bq:16:ALA:HA	4:Bz:3:GLY:HA3	1.82	0.62
6:Cz:112:PHE:O	6:Cz:116:THR:HG23	2.00	0.62
6:Cz:138:GLU:HA	6:Cz:141:LYS:HG2	1.82	0.62
6:Cz:150:LYS:N	6:Cz:247:ALA:HA	2.08	0.62
6:Dr:229:ARG:HH12	6:Dr:233:LEU:HB2	1.64	0.62
5:Ec:253:ARG:HE	5:Ec:263:LYS:HG3	1.65	0.62
6:Ed:153:ALA:HB1	6:Ed:251:ARG:HH21	1.65	0.62
7:Em:798:THR:O	7:Em:802:LEU:HD22	1.99	0.62
8:Ey:254:MET:HE2	8:Ey:254:MET:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Fa:84:THR:HB	8:Fa:371:GLN:HA	1.82	0.62
9:Fd:188:GLN:HA	9:Fd:191:MET:HG2	1.82	0.62
9:Fd:493:LYS:HA	9:Fd:493:LYS:HE3	1.81	0.62
9:Ff:124:MET:HA	9:Ff:127:PHE:HD2	1.65	0.62
9:Ff:425:ASP:O	9:Ff:429:ILE:HG13	1.99	0.62
7:Fg:38:LYS:HD3	7:Fg:38:LYS:N	2.15	0.62
6:Bj:128:VAL:HA	6:Bj:131:LYS:HG2	1.82	0.61
6:Ct:195:ASP:OD2	7:Eq:820:TYR:HA	2.00	0.61
6:Cz:205:GLN:HB2	6:Cz:214:MET:SD	2.39	0.61
6:Dx:108:ASP:HA	7:Es:797:ARG:NH2	2.11	0.61
7:Ej:770:SER:HA	7:Ej:773:GLN:HE22	1.65	0.61
8:Ex:196:LYS:HZ2	9:Fc:219:THR:HB	1.65	0.61
8:Ez:430:ARG:NH1	8:Fa:425:GLN:HG3	2.14	0.61
9:Fc:56:ILE:HA	9:Fd:149:TYR:CE2	2.34	0.61
9:Fe:143:TRP:CZ3	9:Fe:147:LEU:HD21	2.35	0.61
9:Fe:673:VAL:O	9:Fe:677:THR:HG23	2.00	0.61
9:Ff:194:LEU:HA	9:Ff:197:GLN:HE21	1.65	0.61
5:Ca:241:TYR:HB3	5:Ca:256:THR:HG21	1.80	0.61
5:Dk:264:PHE:HD2	5:Dk:265:SER:H	1.47	0.61
8:Ew:104:ASP:HA	8:Ew:109:ASN:HD22	1.65	0.61
8:Ez:208:ASN:O	8:Ez:212:GLN:HG2	2.00	0.61
9:Fb:534:ILE:O	9:Fb:568:TYR:HB2	2.00	0.61
9:Fe:745:ILE:O	9:Fe:749:THR:HG22	2.01	0.61
9:Ff:294:ASN:HB2	9:Ff:313:MET:HE2	1.81	0.61
6:Ar:107:ILE:H	6:Ar:107:ILE:HD12	1.64	0.61
5:Bu:219:ARG:HG2	6:Cb:148:PRO:HD2	1.83	0.61
6:Bv:205:GLN:HB2	7:El:820:TYR:CZ	2.35	0.61
6:Cb:132:GLN:HE22	6:Cb:135:GLU:HG3	1.65	0.61
6:Ed:173:GLN:HB2	6:Ed:220:LEU:HB2	1.82	0.61
8:Ew:334:ARG:HG3	8:Ex:282:TYR:CE1	2.26	0.61
8:Ew:457:PHE:HZ	8:Ex:329:TYR:HB2	1.64	0.61
8:Ez:454:THR:HG23	8:Ez:456:ASP:H	1.65	0.61
9:Fb:136:VAL:HG13	9:Fb:461:TRP:HE1	1.65	0.61
9:Fd:122:CYS:HB2	9:Fd:124:MET:HG2	1.81	0.61
9:Fd:702:THR:O	9:Fd:706:THR:HG23	2.00	0.61
9:Ff:242:LYS:HE3	9:Ff:265:ASN:ND2	2.16	0.61
9:Ff:684:ASN:HB3	9:Ff:687:VAL:HG22	1.82	0.61
6:Af:138:GLU:HA	6:Af:141:LYS:HG2	1.83	0.61
6:Bv:151:PRO:HA	6:Bv:248:VAL:HG13	1.82	0.61
6:Cn:206:TRP:HB2	6:Cn:213:LEU:HD23	1.83	0.61
5:De:221:TRP:CD1	5:De:231:THR:HG1	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:De:247:ILE:HG12	5:De:254:ILE:HD12	1.82	0.61
6:Df:157:PHE:HD1	6:Df:255:ARG:HG3	1.64	0.61
6:Dx:204:ILE:HD13	6:Dx:215:ILE:HD13	1.83	0.61
6:Ed:189:TRP:CD1	6:Ed:230:LEU:HB3	2.35	0.61
8:Ew:96:GLN:HA	8:Ew:99:MET:HE1	1.82	0.61
8:Ex:276:ALA:O	8:Ex:280:ILE:HG23	2.00	0.61
8:Ez:191:MET:HE2	8:Ez:191:MET:HA	1.81	0.61
9:Fb:367:LYS:O	9:Fb:367:LYS:HD2	2.00	0.61
9:Fd:651:MET:O	9:Fd:655:ILE:HG13	2.00	0.61
7:Fi:19:VAL:HB	7:Fi:23:PHE:CZ	2.35	0.61
6:Bj:170:ARG:HB2	6:Bj:249:ASP:H	1.65	0.61
6:Cb:150:LYS:HG2	6:Cb:152:THR:HG23	1.83	0.61
5:Cg:226:ASN:HD21	5:Cg:228:SER:HB3	1.64	0.61
6:Cz:220:LEU:H	6:Cz:220:LEU:HD12	1.66	0.61
5:De:246:LEU:HB2	5:De:255:LEU:HD23	1.81	0.61
7:Es:780:LYS:HZ3	7:Es:783:GLU:HB2	1.65	0.61
8:Ey:75:GLN:O	8:Ey:78:GLN:HG3	2.00	0.61
8:Ez:123:GLN:HE22	8:Ez:256:THR:HG21	1.66	0.61
8:Fa:374:ASN:OD1	8:Fa:378:MET:HE2	2.01	0.61
9:Fb:909:TYR:HA	9:Fb:912:PHE:CD2	2.36	0.61
9:Fd:931:THR:O	9:Fd:934:ALA:HB3	2.00	0.61
9:Ff:325:LEU:O	9:Ff:329:ARG:HG2	2.01	0.61
6:Af:191:ILE:HD13	6:Af:213:LEU:HG	1.82	0.61
6:Cb:201:SER:HB2	6:Cb:219:LYS:HD2	1.82	0.61
6:Cn:106:VAL:HA	6:Cn:109:LYS:HZ2	1.65	0.61
6:Cn:115:MET:CE	7:Em:801:MET:HB2	2.30	0.61
2:Cp:4:MET:H	2:Cp:4:MET:HE3	1.66	0.61
7:Es:777:ILE:O	7:Es:781:GLN:HG3	2.01	0.61
8:Ex:253:LEU:HD13	8:Ex:370:SER:HB2	1.81	0.61
9:Fb:101:ILE:HA	7:Fh:16:ARG:HH22	1.65	0.61
9:Fe:455:GLU:O	9:Fe:459:LYS:HB2	1.99	0.61
6:Bd:126:GLN:HA	6:Bd:129:LYS:HE2	1.83	0.61
5:Cg:215:VAL:HG13	5:Cg:247:ILE:HD11	1.81	0.61
6:Ct:256:VAL:HG12	6:Ct:258:GLY:H	1.64	0.61
6:Dr:111:ALA:HB1	6:Dr:115:MET:HE3	1.82	0.61
7:Ei:794:ILE:H	7:Ei:794:ILE:HD12	1.64	0.61
7:En:797:ARG:HA	7:En:800:ASP:OD1	1.99	0.61
8:Ew:85:PHE:CD2	8:Ew:86:LEU:HD12	2.35	0.61
8:Ey:381:ARG:NH1	8:Ey:382:ARG:HH11	1.98	0.61
8:Fa:336:TYR:O	8:Fa:340:THR:HG23	2.00	0.61
9:Fb:605:MET:HB3	9:Fb:641:TYR:CE2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fb:729:MET:HA	9:Fb:732:MET:HG3	1.82	0.61
9:Fc:756:LEU:O	9:Fc:760:ILE:HG12	1.99	0.61
5:Aq:245:LYS:HE2	5:Aq:257:SER:HA	1.83	0.61
2:Bl:2:VAL:HG23	3:Bm:1:ARG:HD2	1.82	0.61
6:Cn:117:ARG:HD2	6:Cn:117:ARG:C	2.26	0.61
5:Cy:222:LEU:HD11	5:Cy:262:ILE:HG21	1.82	0.61
6:Df:236:PRO:HG2	6:Dl:251:ARG:HH21	1.66	0.61
6:Dx:115:MET:HG2	7:Es:801:MET:SD	2.41	0.61
6:Ed:117:ARG:NH1	6:Ed:118:ASN:HA	2.16	0.61
7:Ei:802:LEU:O	7:Ei:806:THR:HG23	2.01	0.61
7:En:792:GLN:HA	7:En:795:GLN:NE2	2.16	0.61
8:Fa:444:LEU:HA	8:Fa:447:ASN:HD21	1.66	0.61
7:Fi:33:VAL:HA	7:Fi:36:PHE:CD2	2.35	0.61
5:Ak:254:ILE:HB	5:Ak:262:ILE:HB	1.81	0.61
6:Ax:115:MET:HA	6:Ax:118:ASN:OD1	2.00	0.61
6:Bp:134:TYR:O	6:Bp:138:GLU:HG3	2.01	0.61
3:Ce:2:VAL:HG21	6:Ct:129:LYS:HG2	1.83	0.61
6:Ed:106:VAL:HG13	6:Ed:110:LYS:NZ	2.16	0.61
8:Ew:430:ARG:HH21	8:Ex:428:LEU:HB2	1.64	0.61
9:Fb:726:ALA:HB2	9:Ff:725:PHE:CZ	2.36	0.61
9:Fc:504:PRO:O	9:Fc:509:CYS:HB2	2.01	0.61
9:Fc:924:ILE:HD12	9:Fc:925:ILE:HD13	1.82	0.61
9:Fe:666:GLY:O	9:Fe:670:ILE:HG12	2.01	0.61
5:Ae:219:ARG:H	6:Al:148:PRO:HD2	1.65	0.61
6:Bp:150:LYS:HG2	6:Bp:152:THR:HG23	1.83	0.61
5:Cg:219:ARG:HH21	5:Cg:231:THR:HG23	1.66	0.61
6:Cn:115:MET:HE1	7:Em:798:THR:O	2.01	0.61
2:Db:2:VAL:HA	3:Dc:1:ARG:HE	1.66	0.61
7:El:818:GLN:HG3	7:El:820:TYR:HE1	1.66	0.61
8:Ey:422:ILE:HD13	8:Ey:425:GLN:NE2	2.16	0.61
8:Ez:302:TRP:CZ3	8:Fa:218:LEU:HG	2.36	0.61
8:Fa:374:ASN:HA	8:Fa:377:ASN:OD1	2.00	0.61
9:Fb:741:THR:O	9:Fb:745:ILE:HG13	2.01	0.61
9:Fe:819:TYR:O	9:Fe:823:ILE:HD12	2.01	0.61
9:Ff:579:LEU:HD22	9:Ff:580:PRO:HD2	1.82	0.61
9:Ff:927:GLN:HG3	9:Ff:928:LYS:HD2	1.83	0.61
6:Ar:221:TYR:CZ	6:Ax:142:ALA:HB3	2.36	0.60
6:Dl:219:LYS:HE2	6:Dl:222:ASN:HD21	1.65	0.60
7:Ef:808:LEU:HB3	7:Ef:812:TRP:HE1	1.66	0.60
7:Ep:802:LEU:O	7:Ep:806:THR:HG23	2.01	0.60
8:Ew:425:GLN:HA	8:Fa:430:ARG:HH21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Fa:126:SER:HB2	8:Fa:171:ASN:HA	1.82	0.60
9:Fc:915:ILE:H	9:Fc:915:ILE:HD12	1.65	0.60
9:Fe:197:GLN:HG3	9:Fe:530:ILE:HD11	1.81	0.60
6:Ax:221:TYR:HD2	6:Ax:244:GLY:HA3	1.66	0.60
6:Ed:204:ILE:HD13	6:Ed:215:ILE:HG12	1.82	0.60
7:Eu:794:ILE:HD12	7:Eu:794:ILE:H	1.66	0.60
7:Ev:808:LEU:HA	7:Ev:811:ASP:OD2	2.00	0.60
8:Ew:346:ASN:HD22	8:Ew:435:ARG:HH21	1.48	0.60
9:Fc:811:ARG:O	9:Fc:815:MET:HG3	2.01	0.60
9:Ff:657:MET:O	9:Ff:661:MET:HB2	2.00	0.60
9:Ff:741:THR:O	9:Ff:745:ILE:HG12	2.01	0.60
6:Ar:121:PRO:C	7:Ef:801:MET:HE1	2.26	0.60
6:Dx:230:LEU:HB2	6:Dx:233:LEU:HD13	1.83	0.60
7:Ek:809:VAL:HG22	7:Ek:813:LYS:HE3	1.83	0.60
9:Fb:697:ILE:HD12	9:Fc:909:TYR:CD2	2.35	0.60
9:Fc:757:PRO:HA	9:Fc:760:ILE:HD11	1.82	0.60
6:Ax:170:ARG:NH1	6:Ax:247:ALA:HB1	2.16	0.60
6:Bj:170:ARG:HB2	6:Bj:249:ASP:N	2.16	0.60
6:Dl:113:LYS:HB3	6:Dl:117:ARG:HH22	1.66	0.60
7:Ep:804:ALA:O	7:Ep:808:LEU:HD22	2.01	0.60
7:Ev:805:ALA:O	7:Ev:809:VAL:HG12	2.01	0.60
8:Ey:360:SER:HB2	8:Ey:366:ALA:HA	1.82	0.60
8:Ey:399:TRP:HH2	8:Ey:414:GLU:HB3	1.65	0.60
8:Ey:453:PRO:HD2	8:Ez:290:PRO:HB3	1.83	0.60
9:Fd:739:ILE:O	9:Fd:743:VAL:HG12	2.01	0.60
9:Fd:834:ASN:HA	9:Fd:837:PHE:CE1	2.36	0.60
6:Af:139:TYR:HB3	2:Dz:5:ILE:HD12	1.82	0.60
1:Am:3:ASP:HB2	2:An:9:ARG:HH22	1.67	0.60
6:Ax:151:PRO:HA	6:Ax:248:VAL:HG13	1.82	0.60
5:De:268:ASP:HB2	6:Df:152:THR:HG21	1.83	0.60
5:Dk:210:TYR:HB3	5:Dk:222:LEU:HD11	1.83	0.60
8:Fa:304:GLN:OE1	8:Fa:319:GLN:HA	2.01	0.60
9:Fc:320:ILE:HD11	9:Fc:324:GLN:HB3	1.82	0.60
9:Fd:643:PHE:O	9:Fd:647:ILE:HG13	2.01	0.60
9:Fe:808:VAL:HA	9:Fe:811:ARG:HH12	1.67	0.60
6:Ar:168:VAL:HG13	6:Ar:170:ARG:HH12	1.66	0.60
2:Cv:2:VAL:HG22	3:Cw:1:ARG:HE	1.67	0.60
6:Dr:228:VAL:HG22	6:Dr:237:VAL:HB	1.84	0.60
5:Dw:219:ARG:NH1	5:Dw:233:ARG:HE	1.99	0.60
7:Er:806:THR:HA	7:Er:809:VAL:HG22	1.84	0.60
8:Ew:236:ASN:ND2	8:Fa:182:LEU:HD13	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fb:44:VAL:H	9:Fb:55:GLN:HE22	1.49	0.60
9:Fc:605:MET:HG2	9:Fc:641:TYR:CD2	2.37	0.60
9:Fc:651:MET:HA	9:Fc:651:MET:HE3	1.84	0.60
9:Fd:274:PHE:CZ	9:Fd:515:LEU:HB2	2.36	0.60
7:Fh:34:ILE:O	7:Fh:38:LYS:HD3	2.02	0.60
6:Ar:138:GLU:HA	6:Ar:141:LYS:HB3	1.84	0.60
6:Bd:150:LYS:N	6:Bd:247:ALA:HA	2.17	0.60
1:Be:4:ALA:HB3	2:Bf:9:ARG:HH12	1.67	0.60
5:Bi:210:TYR:HB3	5:Bi:222:LEU:HD12	1.84	0.60
6:Bj:173:GLN:HB2	6:Bj:220:LEU:HD23	1.84	0.60
6:Bj:206:TRP:HB2	6:Bj:213:LEU:HD23	1.84	0.60
6:Dl:238:MET:HE2	6:Dl:238:MET:HA	1.84	0.60
8:Ew:438:LEU:O	8:Ew:442:ILE:HG12	2.01	0.60
8:Ez:207:GLN:O	8:Ez:210:VAL:HG12	2.01	0.60
8:Ez:301:LEU:HD13	8:Ez:326:LEU:CD2	2.31	0.60
8:Fa:189:PHE:HE1	8:Fa:292:LEU:HD23	1.67	0.60
8:Fa:277:LEU:CD2	8:Fa:281:ARG:HH12	2.14	0.60
9:Fb:516:LEU:HA	9:Fb:519:TRP:CE3	2.36	0.60
9:Fe:729:MET:HA	9:Fe:732:MET:HG3	1.83	0.60
9:Fe:765:SER:O	9:Fe:768:TRP:HB3	2.02	0.60
9:Fe:827:TYR:HB3	9:Fe:831:TRP:CZ2	2.37	0.60
9:Ff:589:THR:HG22	9:Ff:665:GLN:HE22	1.67	0.60
1:Aa:16:ALA:HB3	2:Ah:9:ARG:HG3	1.83	0.60
6:Ar:107:ILE:HA	6:Ar:110:LYS:NZ	2.17	0.60
5:Bo:211:TYR:HB2	5:Bo:213:GLN:HE22	1.67	0.60
6:Cb:117:ARG:NH1	6:Cb:118:ASN:HA	2.16	0.60
6:Ct:112:PHE:N	7:En:797:ARG:HH22	2.00	0.60
5:Dk:263:LYS:HA	5:Dk:263:LYS:HE3	1.83	0.60
7:Et:799:SER:O	7:Et:803:THR:HG23	2.02	0.60
8:Ew:206:TYR:CZ	8:Ew:208:ASN:HB3	2.36	0.60
8:Ex:195:GLN:HE22	8:Ex:294:LYS:HD2	1.66	0.60
8:Ez:438:LEU:O	8:Ez:442:ILE:HG12	2.02	0.60
8:Fa:377:ASN:O	8:Fa:381:ARG:HD2	2.00	0.60
9:Fd:644:PHE:HA	9:Fd:647:ILE:HD12	1.84	0.60
9:Fd:709:ASN:ND2	9:Fe:597:LYS:H	1.98	0.60
9:Fe:140:ASP:O	9:Fe:144:GLU:HG2	2.02	0.60
9:Fe:164:THR:HA	9:Fe:579:LEU:HD13	1.83	0.60
9:Fe:461:TRP:CH2	9:Fe:812:PRO:HB3	2.37	0.60
9:Fe:926:VAL:HG13	9:Fe:930:PHE:HE2	1.65	0.60
7:Fk:32:VAL:O	7:Fk:36:PHE:HD1	1.84	0.60
6:Ar:128:VAL:HG23	6:Ar:132:GLN:HE21	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ar:181:PHE:HE2	6:Ar:191:ILE:HD11	1.66	0.60
6:Bj:125:GLU:O	6:Bj:129:LYS:HG3	2.01	0.60
6:Ch:131:LYS:O	6:Ch:135:GLU:HG3	2.02	0.60
5:Dq:232:VAL:HG23	5:Dq:236:SER:HB3	1.84	0.60
5:Dq:253:ARG:HB2	5:Dq:263:LYS:NZ	2.17	0.60
6:Dr:115:MET:HE2	7:Er:798:THR:HA	1.83	0.60
6:Dr:226:LEU:HB3	6:Dr:241:LEU:HD21	1.84	0.60
7:Ev:794:ILE:H	7:Ev:794:ILE:HD12	1.67	0.60
8:Ex:321:GLN:O	8:Ex:325:THR:HG23	2.02	0.60
8:Fa:429:ASP:O	8:Fa:433:GLN:HG2	2.01	0.60
6:Bd:117:ARG:HH21	7:Eh:797:ARG:HD2	1.66	0.60
5:Bu:264:PHE:HB3	5:Bu:269:SER:HB3	1.84	0.60
6:Dl:141:LYS:HE3	7:Es:812:TRP:CE3	2.37	0.60
8:Ew:84:THR:HB	8:Ew:371:GLN:HB2	1.83	0.60
8:Ey:238:PRO:O	8:Ey:242:GLN:HG2	2.01	0.60
8:Ez:272:GLN:HA	8:Ez:275:GLN:HG2	1.84	0.60
8:Fa:81:ALA:HB2	8:Fa:378:MET:CE	2.32	0.60
9:Fb:196:LYS:HE2	9:Fb:359:THR:HB	1.83	0.60
9:Fb:505:PHE:HA	9:Fb:509:CYS:HB3	1.83	0.60
9:Fd:342:THR:HG23	9:Fd:343:LEU:HD12	1.83	0.60
9:Fe:450:ARG:HD3	9:Fe:474:LEU:HD11	1.84	0.60
9:Fe:558:SER:HB3	9:Fe:576:MET:SD	2.42	0.60
9:Fe:741:THR:O	9:Fe:745:ILE:HG12	2.01	0.60
7:Fj:38:LYS:HZ1	7:Fj:42:ALA:HB2	1.66	0.60
6:Al:159:ASN:HD22	6:Al:257:GLN:NE2	2.00	0.59
6:Ar:235:THR:HG23	6:Ax:251:ARG:CZ	2.32	0.59
5:Bc:216:ILE:HD11	6:Bj:148:PRO:HG2	1.84	0.59
6:Cz:115:MET:HA	6:Cz:118:ASN:OD1	2.02	0.59
6:Cz:255:ARG:HH12	6:Cz:257:GLN:HA	1.65	0.59
7:Ef:804:ALA:O	7:Ef:808:LEU:HD22	2.01	0.59
7:Eo:798:THR:O	7:Eo:802:LEU:HD22	2.02	0.59
7:Et:779:GLN:HA	7:Et:782:ASN:HD21	1.67	0.59
8:Ew:170:LEU:HD12	8:Ew:171:ASN:H	1.67	0.59
8:Ew:437:LEU:HD21	8:Ex:432:ILE:HG22	1.83	0.59
8:Ey:419:LEU:HD12	8:Ey:420:ALA:N	2.17	0.59
8:Fa:144:GLN:HB2	8:Fa:179:PHE:CZ	2.36	0.59
9:Fc:103:ILE:HG13	9:Fc:104:PRO:HD3	1.84	0.59
9:Fc:670:ILE:HA	9:Fc:673:VAL:HG22	1.83	0.59
9:Fe:434:LEU:O	9:Fe:438:ARG:HG2	2.01	0.59
9:Ff:117:LYS:HG3	9:Ff:119:SER:H	1.65	0.59
9:Ff:616:LYS:HA	9:Ff:620:PHE:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Fh:18:ARG:O	7:Fh:22:ILE:HG12	2.02	0.59
6:Af:123:ASN:ND2	6:Af:124:PRO:HD2	2.17	0.59
6:Af:223:TYR:HB2	6:Af:242:ILE:HA	1.84	0.59
5:Bc:207:ARG:HG2	5:Bc:208:ILE:H	1.66	0.59
5:De:213:GLN:HG2	5:De:221:TRP:O	2.02	0.59
8:Ey:82:TYR:HE1	8:Ez:383:LEU:HD23	1.66	0.59
8:Ey:93:ALA:HA	8:Ey:99:MET:SD	2.42	0.59
8:Ey:144:GLN:HB2	8:Ey:179:PHE:CZ	2.37	0.59
8:Ey:419:LEU:O	8:Ey:422:ILE:HB	2.02	0.59
9:Fb:197:GLN:HG3	9:Fb:530:ILE:HD11	1.84	0.59
9:Fb:419:PHE:O	9:Fb:423:ILE:HG12	2.02	0.59
9:Fd:716:LEU:HD21	9:Fe:723:PHE:CD1	2.37	0.59
9:Ff:67:ALA:O	9:Ff:71:LEU:HG	2.01	0.59
9:Ff:631:LEU:O	9:Ff:636:VAL:HG23	2.02	0.59
6:Al:115:MET:CE	7:Ev:801:MET:HB2	2.31	0.59
6:Ax:203:ASN:HD21	6:Ax:205:GLN:HE22	1.49	0.59
6:Bd:202:PHE:HA	6:Bd:218:THR:H	1.67	0.59
6:Bv:229:ARG:CZ	6:Bv:230:LEU:H	2.15	0.59
5:Ca:210:TYR:HB3	5:Ca:222:LEU:HD12	1.82	0.59
6:Cb:126:GLN:HA	6:Cb:129:LYS:HE2	1.84	0.59
5:Cs:219:ARG:CZ	5:Cs:233:ARG:HB3	2.32	0.59
7:Eg:794:ILE:O	7:Eg:798:THR:HG23	2.02	0.59
8:Ew:382:ARG:O	8:Ew:399:TRP:HB3	2.02	0.59
8:Fa:109:ASN:HA	8:Fa:112:ILE:HD12	1.83	0.59
9:Fb:128:PHE:O	9:Fb:132:ILE:HD12	2.02	0.59
9:Fd:811:ARG:HH21	9:Fd:815:MET:HE2	1.66	0.59
6:Bd:119:LEU:HD12	6:Bd:120:TYR:CD2	2.37	0.59
3:Bs:2:VAL:HG22	3:Bs:8:VAL:HG22	1.83	0.59
6:Bv:229:ARG:HH11	6:Bv:236:PRO:HA	1.67	0.59
5:Dk:269:SER:O	6:Dl:150:LYS:HE3	2.02	0.59
6:Dx:129:LYS:O	6:Dx:133:ILE:HG12	2.02	0.59
7:Eq:803:THR:HA	7:Eq:807:GLN:HE22	1.67	0.59
7:Eu:798:THR:O	7:Eu:802:LEU:HD22	2.02	0.59
8:Ew:340:THR:O	8:Ew:344:VAL:HG23	2.03	0.59
9:Fb:131:VAL:HG21	9:Fb:805:LEU:HD11	1.84	0.59
9:Fb:593:LEU:H	9:Fb:593:LEU:HD23	1.67	0.59
9:Fc:816:ILE:O	9:Fc:820:ILE:HG22	2.03	0.59
9:Fe:261:LEU:HB3	9:Fe:282:VAL:HG12	1.84	0.59
6:Ax:219:LYS:HD2	6:Ax:222:ASN:HD21	1.67	0.59
5:Bc:253:ARG:HG2	5:Bc:261:VAL:HG13	1.85	0.59
6:Bp:225:ASN:HD21	6:Bv:176:VAL:N	1.99	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ca:222:LEU:HB2	5:Ca:230:LEU:HG	1.85	0.59
6:Cz:193:ALA:HB1	7:Er:820:TYR:HE2	1.67	0.59
6:Dl:214:MET:HE1	7:Es:818:GLN:HE21	1.67	0.59
7:Eo:799:SER:O	7:Eo:803:THR:HG23	2.02	0.59
7:Eq:771:ALA:O	7:Eq:775:GLN:HG3	2.01	0.59
8:Ew:208:ASN:HA	8:Ew:211:MET:SD	2.42	0.59
8:Ex:123:GLN:HE22	8:Ex:256:THR:HG21	1.68	0.59
8:Ex:301:LEU:HD12	8:Ex:322:ALA:HB1	1.83	0.59
8:Ex:382:ARG:HG2	8:Ex:399:TRP:CD1	2.37	0.59
8:Ex:453:PRO:HD3	8:Ey:336:TYR:CD1	2.36	0.59
8:Ey:217:THR:HG22	8:Ey:265:SER:HB3	1.85	0.59
8:Ey:375:GLU:HA	8:Ey:378:MET:HG2	1.83	0.59
9:Fd:339:MET:HE2	9:Fd:339:MET:N	2.17	0.59
9:Fd:735:LEU:HA	9:Fd:738:TRP:CE3	2.38	0.59
9:Fe:334:ILE:HA	9:Fe:337:GLN:HB3	1.83	0.59
9:Fe:760:ILE:HA	9:Fe:763:PHE:CD1	2.36	0.59
9:Ff:812:PRO:HA	9:Ff:815:MET:HE1	1.85	0.59
9:Ff:819:TYR:CE1	9:Ff:823:ILE:HD11	2.36	0.59
1:Aa:15:ASN:HB3	2:Ah:9:ARG:HH22	1.68	0.59
5:Ae:264:PHE:HE2	6:Af:170:ARG:HH12	1.50	0.59
6:Af:129:LYS:HE3	6:Al:112:PHE:CE1	2.37	0.59
5:Ak:219:ARG:H	6:Ar:148:PRO:HD2	1.66	0.59
6:Cb:238:MET:HG3	6:Ch:250:TYR:HB2	1.85	0.59
6:Dl:115:MET:HG3	7:Eq:801:MET:SD	2.42	0.59
8:Ex:252:LEU:HD11	8:Ex:373:LEU:HA	1.84	0.59
9:Fb:696:TYR:HA	9:Fb:742:MET:HE3	1.84	0.59
7:Fg:23:PHE:O	7:Fg:27:LEU:HD12	2.03	0.59
6:Ax:238:MET:HE2	6:Ax:238:MET:HA	1.85	0.59
6:Bp:194:TYR:HB2	6:Bp:228:VAL:HG12	1.85	0.59
6:Cb:141:LYS:HZ3	7:Em:808:LEU:HD13	1.65	0.59
6:Ch:219:LYS:HE2	6:Ch:222:ASN:HD21	1.68	0.59
6:Cn:115:MET:O	6:Cn:119:LEU:HD23	2.02	0.59
6:Dl:220:LEU:HD23	6:Dl:221:TYR:HB3	1.84	0.59
8:Ew:136:ILE:HD11	8:Ew:273:ALA:HB1	1.85	0.59
8:Ew:342:VAL:HG21	8:Ew:442:ILE:HG21	1.83	0.59
8:Ex:214:VAL:HA	8:Ex:267:LEU:HD23	1.85	0.59
8:Ey:430:ARG:HD3	8:Ez:429:ASP:HB3	1.85	0.59
9:Fd:844:ILE:HG22	9:Fd:910:ALA:HB1	1.83	0.59
6:Ar:145:PRO:HD3	6:Ax:131:LYS:NZ	2.17	0.59
5:Aw:212:ILE:HG23	5:Aw:222:LEU:HD22	1.85	0.59
5:Ca:264:PHE:HB3	5:Ca:269:SER:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ch:141:LYS:HZ3	7:En:808:LEU:HA	1.67	0.59
6:Df:151:PRO:HA	6:Df:248:VAL:HG22	1.83	0.59
6:Df:190:PRO:O	6:Df:231:ARG:HG2	2.03	0.59
7:Ee:794:ILE:H	7:Ee:794:ILE:HD12	1.66	0.59
7:Ei:791:GLN:HG3	7:Ei:794:ILE:HD13	1.85	0.59
8:Ew:431:GLN:O	8:Ew:435:ARG:HG2	2.02	0.59
8:Ey:444:LEU:HD22	8:Ez:443:MET:HB3	1.84	0.59
9:Fd:744:SER:O	9:Fd:748:VAL:HG23	2.02	0.59
9:Fe:640:VAL:HG12	9:Fe:644:PHE:CE2	2.38	0.59
9:Ff:940:VAL:HG12	9:Ff:943:TRP:CZ3	2.38	0.59
6:Ax:176:VAL:HG13	6:Ax:214:MET:HG3	1.84	0.59
6:Df:185:THR:HG21	6:Df:263:ALA:HA	1.85	0.59
5:Dk:214:ALA:HB3	5:Dk:221:TRP:HD1	1.67	0.59
6:Ed:107:ILE:HD11	7:Et:794:ILE:HA	1.84	0.59
8:Ew:334:ARG:HB2	8:Ex:243:LEU:HD11	1.85	0.59
8:Ex:298:TYR:HE2	8:Ey:221:ALA:HB2	1.68	0.59
9:Fc:121:TYR:HB3	9:Fc:125:GLN:NE2	2.18	0.59
9:Fc:124:MET:HA	9:Fc:127:PHE:CD1	2.38	0.59
9:Fd:469:PHE:HD2	9:Fe:843:TYR:CD2	2.21	0.59
9:Fe:129:MET:O	9:Fe:133:VAL:HG12	2.02	0.59
6:Dl:130:LEU:HD23	7:Er:808:LEU:HD12	1.85	0.59
7:Es:784:GLN:O	7:Es:788:GLN:HG2	2.02	0.59
8:Ey:123:GLN:HG2	8:Ey:136:ILE:HB	1.85	0.59
8:Fa:245:SER:HA	8:Fa:279:PHE:CE2	2.38	0.59
9:Fb:391:GLU:HG3	9:Fb:393:GLN:H	1.68	0.59
9:Fb:664:LEU:HD21	9:Fb:738:TRP:CZ2	2.38	0.59
9:Fb:927:GLN:O	9:Fb:931:THR:HG23	2.03	0.59
9:Fc:288:SER:HA	9:Fc:291:ASN:HB3	1.83	0.59
9:Fc:939:LYS:HA	9:Fc:942:ARG:HG2	1.84	0.59
9:Fd:716:LEU:HD21	9:Fe:723:PHE:HD1	1.66	0.59
9:Ff:663:PRO:HG2	9:Ff:738:TRP:CE3	2.37	0.59
6:Ar:204:ILE:HG12	6:Ar:215:ILE:HG23	1.85	0.58
6:Dr:219:LYS:HG2	6:Dr:222:ASN:ND2	2.18	0.58
6:Ed:202:PHE:CE1	6:Ed:241:LEU:HD13	2.37	0.58
7:En:799:SER:HA	7:En:802:LEU:HG	1.84	0.58
8:Ex:173:PRO:HB2	8:Ex:348:TYR:CZ	2.38	0.58
9:Fc:628:MET:HE3	9:Fc:629:GLY:HA2	1.85	0.58
9:Fd:335:ALA:HA	9:Fd:429:ILE:HD13	1.85	0.58
9:Fe:193:GLY:O	9:Fe:197:GLN:HG2	2.02	0.58
9:Fe:808:VAL:HA	9:Fe:811:ARG:NH1	2.18	0.58
7:Fh:35:GLY:O	7:Fh:39:ILE:HG12	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ae:245:LYS:HD3	5:Ae:257:SER:HA	1.85	0.58
1:As:16:ALA:HB3	2:Az:9:ARG:HG3	1.85	0.58
5:Bc:207:ARG:HD2	5:Bc:240:GLY:HA3	1.85	0.58
6:Bd:205:GLN:NE2	7:El:820:TYR:HB2	2.17	0.58
5:Bu:219:ARG:HA	5:Bu:232:VAL:O	2.03	0.58
5:Bu:243:MET:HG2	5:Bu:257:SER:HB3	1.85	0.58
6:Cz:115:MET:CE	7:Eo:801:MET:HG3	2.33	0.58
2:Dn:2:VAL:HA	3:Do:1:ARG:HH21	1.66	0.58
6:Dr:108:ASP:O	6:Dr:111:ALA:HB3	2.03	0.58
6:Ed:204:ILE:HD11	6:Ed:213:LEU:HD22	1.84	0.58
8:Ey:346:ASN:HA	8:Ey:435:ARG:HH12	1.67	0.58
9:Fb:113:LEU:HD13	9:Fb:123:MET:HE3	1.85	0.58
9:Fb:531:GLN:HA	9:Fb:534:ILE:HD12	1.86	0.58
9:Fb:571:VAL:HG12	9:Fb:575:MET:HE1	1.83	0.58
9:Fb:917:ILE:O	9:Fb:921:MET:HG2	2.03	0.58
9:Fb:939:LYS:HZ1	9:Ff:774:GLU:HA	1.69	0.58
9:Fd:668:LYS:O	9:Fd:672:ILE:HG12	2.01	0.58
9:Fe:800:PHE:O	9:Fe:804:ILE:HD12	2.03	0.58
5:Ak:219:ARG:HG2	6:Ar:148:PRO:HD2	1.83	0.58
6:Ax:108:ASP:HA	7:Ef:797:ARG:NH1	2.18	0.58
5:Dk:210:TYR:HB3	5:Dk:222:LEU:HD21	1.84	0.58
6:Dx:196:LEU:HD21	6:Dx:202:PHE:HD1	1.68	0.58
6:Ed:223:TYR:HB2	6:Ed:242:ILE:HG13	1.85	0.58
7:Ef:804:ALA:O	7:Ef:807:GLN:HG3	2.03	0.58
7:Eg:802:LEU:O	7:Eg:806:THR:HG23	2.03	0.58
7:El:780:LYS:O	7:El:784:GLN:HG2	2.02	0.58
7:El:797:ARG:HB2	7:El:801:MET:HE3	1.85	0.58
8:Ew:95:SER:HB3	8:Ew:98:LEU:HD23	1.86	0.58
8:Ew:443:MET:SD	8:Ew:444:LEU:HD23	2.43	0.58
8:Ex:277:LEU:O	8:Ex:280:ILE:HG12	2.03	0.58
8:Ey:123:GLN:NE2	8:Ey:136:ILE:H	2.01	0.58
8:Ey:242:GLN:HE22	8:Ey:269:ALA:H	1.52	0.58
9:Fb:907:GLY:O	9:Fb:910:ALA:HB3	2.03	0.58
9:Fe:667:MET:HE2	9:Fe:912:PHE:HD1	1.69	0.58
6:Df:117:ARG:O	6:Df:121:PRO:HA	2.03	0.58
8:Ew:178:VAL:HA	8:Ew:181:ILE:HD12	1.84	0.58
8:Ez:381:ARG:NE	8:Ez:382:ARG:HG3	2.13	0.58
8:Fa:125:PHE:HA	8:Fa:137:THR:HA	1.85	0.58
9:Fb:434:LEU:HG	9:Fb:438:ARG:HH21	1.67	0.58
9:Fb:613:GLY:HA3	9:Fb:625:GLY:H	1.68	0.58
9:Fd:60:MET:HE1	9:Fe:817:ILE:HD12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fd:647:ILE:O	9:Fd:651:MET:HG2	2.02	0.58
9:Fe:668:LYS:O	9:Fe:672:ILE:HG12	2.03	0.58
6:Bp:131:LYS:HD3	6:Bp:132:GLN:HE22	1.68	0.58
6:Bp:238:MET:HG3	6:Bv:250:TYR:CE1	2.38	0.58
6:Bv:113:LYS:HA	6:Bv:113:LYS:HE3	1.84	0.58
5:Dk:212:ILE:HG13	5:Dk:262:ILE:HG22	1.85	0.58
3:Do:2:VAL:HG22	3:Do:8:VAL:HB	1.85	0.58
6:Dx:149:PRO:HA	6:Dx:246:LYS:O	2.03	0.58
2:Dz:1:CYS:HA	3:Ea:4:ILE:HD13	1.86	0.58
7:Eq:779:GLN:HA	7:Eq:782:ASN:ND2	2.18	0.58
8:Ew:382:ARG:HB3	8:Ew:399:TRP:CD2	2.38	0.58
8:Ex:412:GLN:HG3	8:Ey:411:VAL:HG21	1.85	0.58
9:Fb:335:ALA:HA	9:Fb:429:ILE:HD11	1.86	0.58
9:Fc:78:TYR:O	9:Fc:81:MET:HG2	2.03	0.58
9:Fe:187:GLY:C	9:Fe:191:MET:HE2	2.29	0.58
9:Fe:769:LEU:HA	9:Fe:772:VAL:HG12	1.85	0.58
9:Ff:283:LYS:HE2	9:Ff:494:SER:HA	1.86	0.58
6:Bd:237:VAL:C	6:Bj:251:ARG:HH22	2.12	0.58
2:Bf:2:VAL:HG22	3:Bg:1:ARG:HE	1.68	0.58
6:Bv:187:ALA:HB1	6:Bv:262:ASN:HB2	1.86	0.58
5:Cm:219:ARG:NH1	5:Cm:233:ARG:HD3	2.19	0.58
6:Cn:144:THR:OG1	6:Cn:148:PRO:HG3	2.03	0.58
6:Cn:203:ASN:HB3	6:Cn:216:GLN:HE21	1.68	0.58
6:Cz:189:TRP:CD1	6:Cz:230:LEU:HD12	2.39	0.58
6:Cz:219:LYS:HD3	6:Cz:220:LEU:N	2.19	0.58
5:De:243:MET:HG3	5:De:245:LYS:HZ2	1.69	0.58
6:Dx:121:PRO:HB2	7:Et:801:MET:HB2	1.85	0.58
7:Eq:809:VAL:HG22	7:Eq:813:LYS:HE3	1.86	0.58
8:Ew:383:LEU:CD1	8:Fa:78:GLN:HG2	2.32	0.58
8:Ey:141:LEU:HG	8:Ey:213:ASN:HB3	1.85	0.58
8:Fa:294:LYS:HA	8:Fa:294:LYS:HE3	1.84	0.58
8:Fa:346:ASN:O	8:Fa:350:ILE:HG13	2.03	0.58
9:Fb:619:PHE:H	9:Fc:618:LEU:HD21	1.67	0.58
9:Fb:657:MET:HB2	9:Fb:661:MET:HE1	1.84	0.58
9:Fb:675:VAL:O	9:Fb:679:THR:HG23	2.04	0.58
9:Fb:781:ILE:H	9:Fb:781:ILE:HD12	1.68	0.58
9:Fb:939:LYS:NZ	9:Ff:774:GLU:HA	2.18	0.58
9:Fc:532:SER:HA	9:Fc:537:VAL:H	1.68	0.58
9:Fc:940:VAL:HG22	9:Fc:943:TRP:CZ3	2.39	0.58
9:Fd:596:PHE:C	9:Fd:597:LYS:HE2	2.28	0.58
9:Ff:304:VAL:HB	9:Ff:318:LEU:H	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Fh:25:ALA:O	7:Fh:29:ILE:HG22	2.04	0.58
6:Bd:208:LYS:HZ1	7:Ej:821:THR:HG22	1.68	0.58
6:Bj:208:LYS:HB2	7:Ek:824:THR:HG23	1.85	0.58
6:Ch:149:PRO:HB2	6:Ch:248:VAL:HG13	1.85	0.58
6:Ct:204:ILE:HA	6:Ct:214:MET:O	2.04	0.58
6:Dl:141:LYS:HE3	7:Es:812:TRP:CZ3	2.38	0.58
5:Dq:208:ILE:HG23	5:Dq:225:SER:HB2	1.84	0.58
5:Dq:210:TYR:CE1	5:Dq:238:ILE:HD11	2.39	0.58
6:Dr:125:GLU:C	6:Dr:129:LYS:HZ2	2.11	0.58
8:Ew:384:PHE:HB2	8:Fa:78:GLN:HE22	1.69	0.58
8:Fa:36:THR:HA	8:Fa:39:LEU:HD23	1.85	0.58
8:Fa:295:LEU:O	8:Fa:299:SER:HB2	2.04	0.58
8:Fa:420:ALA:O	8:Fa:424:TYR:HD1	1.87	0.58
9:Fb:699:PHE:HD2	9:Fb:742:MET:HE2	1.66	0.58
9:Fc:38:LEU:HD22	9:Fc:49:LEU:HD13	1.86	0.58
9:Fc:644:PHE:CE1	9:Fc:718:PRO:HD2	2.39	0.58
9:Fc:668:LYS:O	9:Fc:672:ILE:HG12	2.04	0.58
9:Fe:147:LEU:HB3	9:Fe:453:ILE:HG23	1.84	0.58
9:Fe:338:GLN:HA	9:Fe:341:VAL:HG22	1.86	0.58
3:Ao:2:VAL:HG22	3:Ao:8:VAL:HG12	1.85	0.58
6:Ax:144:THR:OG1	6:Ax:148:PRO:HG3	2.03	0.58
6:Dl:214:MET:HE1	7:Es:818:GLN:HG3	1.85	0.58
5:Ec:219:ARG:HH11	5:Ec:233:ARG:NH2	2.02	0.58
6:Ed:156:GLN:HE21	6:Ed:254:LEU:HA	1.68	0.58
6:Ed:199:PRO:HD3	7:Ee:818:GLN:OE1	2.03	0.58
8:Ex:295:LEU:O	8:Ex:299:SER:HB3	2.03	0.58
8:Ey:94:MET:HE1	8:Ez:237:GLN:O	2.04	0.58
8:Ey:346:ASN:O	8:Ey:350:ILE:HG13	2.03	0.58
8:Ey:363:GLN:HA	8:Ey:366:ALA:HB2	1.86	0.58
9:Fb:56:ILE:HG13	9:Fc:149:TYR:HE2	1.68	0.58
9:Fd:287:ILE:HG22	9:Fd:289:ALA:H	1.68	0.58
9:Fe:909:TYR:HA	9:Fe:912:PHE:CD2	2.38	0.58
9:Ff:512:PRO:HG2	9:Ff:513:TYR:CE1	2.38	0.58
5:Ae:245:LYS:HZ3	5:Ae:255:LEU:HB3	1.68	0.58
6:Ar:205:GLN:HG3	7:Eg:818:GLN:NE2	2.18	0.58
6:Bp:125:GLU:O	6:Bp:128:VAL:HG22	2.04	0.58
3:Bs:4:ILE:HG13	6:Ch:132:GLN:NE2	2.19	0.58
6:Cb:114:ASP:O	6:Cb:117:ARG:HB3	2.03	0.58
5:Cg:219:ARG:HG2	6:Cn:148:PRO:HD2	1.85	0.58
6:Ch:115:MET:HE2	7:El:802:LEU:HD22	1.86	0.58
6:Cz:111:ALA:O	6:Cz:115:MET:HG3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Db:7:GLY:H	4:Dd:1:PRO:HD2	1.69	0.58
5:Dk:213:GLN:HB3	5:Dk:223:ILE:HG22	1.85	0.58
1:Dm:3:ASP:OD1	3:Do:14:TYR:HB3	2.04	0.58
7:Eh:789:LYS:O	7:Eh:789:LYS:HD2	2.04	0.58
7:Ev:809:VAL:HG13	7:Ev:810:GLN:NE2	2.19	0.58
9:Fb:657:MET:HA	9:Fb:660:LEU:CD2	2.33	0.58
9:Fc:703:LEU:O	9:Fc:707:LEU:HG	2.04	0.58
9:Fc:819:TYR:O	9:Fc:823:ILE:HD12	2.04	0.58
9:Fe:287:ILE:H	9:Fe:287:ILE:HD12	1.69	0.58
5:Ae:210:TYR:CE2	5:Ae:238:ILE:HD11	2.38	0.58
5:Ak:216:ILE:HD11	6:Ar:148:PRO:HG2	1.86	0.58
6:Al:129:LYS:HB2	3:Ea:2:VAL:HG11	1.85	0.58
6:Al:199:PRO:HG3	7:Eg:819:VAL:HG22	1.85	0.58
6:Bj:205:GLN:HE22	7:Ej:820:TYR:HB2	1.68	0.58
6:Bv:128:VAL:O	6:Bv:132:GLN:HG2	2.04	0.58
5:Cy:211:TYR:CG	5:Cy:265:SER:HB2	2.38	0.58
6:Dr:145:PRO:HD3	6:Dx:131:LYS:HE2	1.86	0.58
6:Dx:132:GLN:O	6:Dx:136:THR:HG23	2.03	0.58
6:Ed:112:PHE:O	6:Ed:116:THR:HG23	2.04	0.58
6:Ed:189:TRP:NE1	6:Ed:230:LEU:HB3	2.19	0.58
7:Eh:802:LEU:O	7:Eh:806:THR:HG23	2.03	0.58
7:Eo:801:MET:HA	7:Eo:801:MET:HE3	1.85	0.58
7:Eq:774:LEU:HD21	9:Fb:432:PRO:HB2	1.85	0.58
7:Et:805:ALA:HA	7:Et:808:LEU:HG	1.85	0.58
8:Ex:420:ALA:HA	8:Ex:423:ASN:OD1	2.03	0.58
8:Ey:411:VAL:O	8:Ey:415:ILE:HG13	2.03	0.58
9:Fd:377:GLN:HE22	9:Fd:402:VAL:H	1.49	0.58
9:Fd:815:MET:HE1	9:Fd:937:PRO:HG3	1.85	0.58
9:Fd:912:PHE:O	9:Fd:916:LEU:HD22	2.04	0.58
9:Fe:426:TYR:O	9:Fe:430:MET:HG2	2.04	0.58
9:Ff:73:GLY:O	9:Ff:77:MET:HE2	2.04	0.58
3:Bs:3:SER:O	6:Ch:132:GLN:HG3	2.03	0.57
6:Bv:115:MET:CE	7:Ej:802:LEU:HD13	2.33	0.57
6:Ch:133:ILE:HD11	6:Cn:120:TYR:HB2	1.86	0.57
6:Ch:208:LYS:HE2	7:Eo:823:GLY:HA2	1.86	0.57
6:Cz:219:LYS:HD2	6:Cz:222:ASN:CG	2.29	0.57
5:Dw:247:ILE:HG12	5:Dw:254:ILE:HG23	1.85	0.57
6:Ed:141:LYS:HD2	7:Ev:812:TRP:CH2	2.39	0.57
7:Eu:778:LEU:HA	7:Eu:781:GLN:HG3	1.85	0.57
8:Ex:77:VAL:HG13	8:Ex:374:ASN:HD21	1.67	0.57
8:Ex:326:LEU:HD12	8:Ey:218:LEU:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ey:414:GLU:O	8:Ey:418:LEU:HG	2.04	0.57
8:Ez:342:VAL:HG21	8:Ez:442:ILE:HG13	1.86	0.57
9:Fc:801:ALA:O	9:Fc:805:LEU:HB3	2.04	0.57
9:Fc:814:LEU:CD2	9:Fc:940:VAL:HG21	2.34	0.57
9:Fd:732:MET:SD	9:Fd:733:PRO:HD3	2.43	0.57
9:Fe:326:GLN:O	9:Fe:330:LEU:HD22	2.02	0.57
9:Ff:240:VAL:HA	9:Ff:333:ALA:HB1	1.86	0.57
5:Cs:245:LYS:HD3	5:Cs:245:LYS:N	2.18	0.57
8:Ex:75:GLN:HB2	8:Ey:400:ILE:HD11	1.86	0.57
8:Fa:35:ASN:O	8:Fa:39:LEU:HD22	2.04	0.57
8:Fa:170:LEU:HD12	8:Fa:170:LEU:H	1.69	0.57
9:Fd:185:LEU:HB2	9:Fd:343:LEU:HD23	1.85	0.57
9:Fd:381:PRO:HD3	9:Fd:573:ASN:HB3	1.87	0.57
9:Fe:579:LEU:H	9:Fe:579:LEU:HD12	1.68	0.57
9:Ff:175:SER:HB2	9:Ff:488:GLY:H	1.68	0.57
9:Ff:698:ASN:O	9:Ff:702:THR:HG23	2.04	0.57
9:Ff:829:GLY:HA2	9:Ff:832:ILE:HG12	1.86	0.57
6:Af:201:SER:HB2	6:Af:219:LYS:HD2	1.86	0.57
6:Af:206:TRP:HB2	6:Af:213:LEU:HD23	1.85	0.57
6:Bd:220:LEU:HG	6:Bd:221:TYR:CE2	2.39	0.57
6:Cb:121:PRO:HB2	7:El:801:MET:SD	2.44	0.57
1:Ci:2:THR:O	1:Ci:6:LEU:HD22	2.04	0.57
1:Co:11:TYR:CE1	3:Cq:9:TYR:HB3	2.40	0.57
6:Df:112:PHE:HA	6:Df:115:MET:HG3	1.86	0.57
6:Ed:189:TRP:CZ3	6:Ed:260:GLY:HA2	2.39	0.57
7:Eg:799:SER:O	7:Eg:802:LEU:HD12	2.05	0.57
8:Ew:424:TYR:CE2	8:Ex:380:THR:HA	2.38	0.57
9:Fb:757:PRO:HA	9:Fb:760:ILE:HD12	1.85	0.57
9:Fd:141:LYS:HA	9:Fd:144:GLU:OE1	2.04	0.57
9:Fd:238:ASN:HD22	9:Fd:337:GLN:NE2	2.01	0.57
9:Fd:641:TYR:HA	9:Fd:644:PHE:CD2	2.39	0.57
9:Fe:516:LEU:HA	9:Fe:519:TRP:CE3	2.39	0.57
6:Af:151:PRO:HA	6:Af:248:VAL:HG22	1.87	0.57
6:Af:191:ILE:HG13	6:Af:211:ASN:HA	1.85	0.57
6:Al:115:MET:HE2	7:Ev:798:THR:HA	1.85	0.57
6:Bp:204:ILE:HA	6:Bp:214:MET:O	2.04	0.57
6:Ch:121:PRO:HB2	7:Em:801:MET:CE	2.34	0.57
6:Cz:158:VAL:HB	6:Cz:256:VAL:HA	1.85	0.57
6:Df:122:LEU:HD22	7:Eq:808:LEU:HD11	1.86	0.57
6:Dl:223:TYR:HB2	6:Dl:242:ILE:HA	1.85	0.57
6:Dl:228:VAL:HG13	6:Dl:237:VAL:HB	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ed:189:TRP:HE1	6:Ed:231:ARG:N	2.03	0.57
7:Ej:774:LEU:O	7:Ej:778:LEU:HG	2.04	0.57
8:Ew:377:ASN:O	8:Ew:381:ARG:HG2	2.04	0.57
8:Ex:105:LYS:HZ3	8:Ey:368:ILE:N	2.02	0.57
8:Ey:411:VAL:HA	8:Ey:414:GLU:OE2	2.04	0.57
9:Fb:905:TRP:HD1	9:Ff:698:ASN:HA	1.70	0.57
9:Fd:180:GLY:HA3	9:Fd:491:LEU:HB3	1.86	0.57
9:Fd:511:ASP:HB3	9:Fd:512:PRO:HA	1.85	0.57
9:Fe:781:ILE:H	9:Fe:781:ILE:HD12	1.69	0.57
1:Ag:12:HIS:HD2	3:Ai:9:TYR:HB2	1.69	0.57
6:Ar:221:TYR:HA	6:Ar:243:PRO:HG2	1.84	0.57
5:Bo:246:LEU:HG	5:Bo:253:ARG:NH2	2.19	0.57
6:Ch:113:LYS:HZ3	6:Ch:117:ARG:HB2	1.70	0.57
6:Ct:196:LEU:HD11	6:Ct:202:PHE:CD2	2.40	0.57
7:Ei:809:VAL:HA	7:Ei:812:TRP:CE3	2.39	0.57
7:Ej:774:LEU:HA	7:Ej:777:ILE:HG12	1.86	0.57
8:Ey:238:PRO:HG2	8:Ey:239:LEU:HD12	1.87	0.57
9:Fb:555:GLN:HB2	9:Fb:657:MET:HE1	1.87	0.57
9:Fb:648:PHE:HB2	9:Fb:717:ILE:HD13	1.86	0.57
9:Fe:219:THR:HG23	9:Fe:222:MET:H	1.69	0.57
6:Af:148:PRO:HB2	5:Ec:219:ARG:HG2	1.87	0.57
6:Af:218:THR:HA	7:Ee:815:VAL:HG11	1.87	0.57
6:Bv:128:VAL:HG23	6:Bv:132:GLN:HE21	1.69	0.57
6:Cn:191:ILE:HG12	6:Cn:211:ASN:HA	1.87	0.57
7:Ei:780:LYS:N	7:Ei:780:LYS:HD3	2.20	0.57
7:Ek:797:ARG:O	7:Ek:801:MET:HG3	2.04	0.57
7:Ev:794:ILE:O	7:Ev:798:THR:HG23	2.04	0.57
9:Fc:594:ILE:HG13	9:Fc:905:TRP:HH2	1.69	0.57
9:Fc:658:ALA:HA	9:Fc:662:ILE:HG12	1.87	0.57
9:Fe:73:GLY:O	9:Fe:77:MET:HE2	2.05	0.57
9:Fe:813:SER:O	9:Fe:817:ILE:HG12	2.05	0.57
9:Ff:391:GLU:HG3	9:Ff:393:GLN:H	1.69	0.57
6:Al:238:MET:HG2	6:Ar:251:ARG:CZ	2.33	0.57
6:Ar:199:PRO:HG3	7:Eh:819:VAL:HG22	1.86	0.57
6:Cn:170:ARG:HE	6:Cn:249:ASP:CG	2.13	0.57
6:Cn:219:LYS:HB2	6:Cn:222:ASN:OD1	2.05	0.57
6:Cz:221:TYR:CE1	6:Df:138:GLU:HG3	2.39	0.57
6:Df:180:VAL:HG23	6:Df:211:ASN:HD21	1.69	0.57
6:Dx:134:TYR:O	6:Dx:138:GLU:HG3	2.04	0.57
6:Dx:135:GLU:HA	6:Dx:138:GLU:OE2	2.03	0.57
6:Dx:199:PRO:HG3	7:Ev:817:THR:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Eo:805:ALA:O	7:Eo:809:VAL:HG12	2.05	0.57
8:Ex:399:TRP:O	8:Ex:403:ILE:HG12	2.05	0.57
9:Fb:45:VAL:HG12	9:Fb:126:VAL:HG12	1.86	0.57
9:Fb:122:CYS:HB2	9:Fb:124:MET:HG2	1.86	0.57
9:Fb:556:ARG:HB3	9:Fb:576:MET:HE1	1.87	0.57
9:Fb:609:ASP:HA	9:Fb:626:ARG:HH12	1.68	0.57
9:Fb:726:ALA:HA	9:Fb:729:MET:SD	2.44	0.57
9:Fc:103:ILE:HG22	9:Fc:106:ARG:NH2	2.20	0.57
9:Fd:769:LEU:O	9:Fd:773:ILE:HG12	2.05	0.57
9:Fe:339:MET:O	9:Fe:343:LEU:HG	2.04	0.57
7:Fk:35:GLY:HA2	7:Fk:38:LYS:HE2	1.85	0.57
6:Af:180:VAL:HG12	6:Af:212:THR:HG22	1.85	0.57
5:Ak:210:TYR:HA	5:Ak:224:GLY:HA2	1.85	0.57
6:Bd:112:PHE:HA	6:Bd:115:MET:HB3	1.87	0.57
1:Bk:16:ALA:HA	4:Bt:3:GLY:HA3	1.86	0.57
6:Bp:170:ARG:HG3	6:Bp:245:GLN:HB2	1.86	0.57
6:Bp:225:ASN:HB2	6:Bv:250:TYR:OH	2.04	0.57
1:Cc:10:GLU:HA	1:Cc:13:LYS:HG2	1.87	0.57
6:Cz:203:ASN:HB3	6:Cz:216:GLN:HG2	1.87	0.57
6:Dx:108:ASP:CA	7:Es:797:ARG:HH22	2.15	0.57
7:Ef:808:LEU:O	7:Ef:812:TRP:HD1	1.88	0.57
8:Ew:109:ASN:HA	8:Ew:112:ILE:HD12	1.86	0.57
8:Ew:205:MET:SD	8:Ew:210:VAL:HB	2.45	0.57
8:Ey:330:PHE:O	8:Ey:334:ARG:HG2	2.05	0.57
8:Ey:350:ILE:HA	8:Ey:353:LYS:HD2	1.87	0.57
9:Fb:148:SER:O	9:Fb:152:ARG:HG2	2.05	0.57
9:Fc:921:MET:O	9:Fc:925:ILE:HG12	2.05	0.57
9:Fd:657:MET:O	9:Fd:657:MET:HE3	2.05	0.57
6:Af:229:ARG:HA	6:Af:236:PRO:HB3	1.87	0.57
2:Ah:4:MET:HE2	4:Aj:2:PHE:HE2	1.68	0.57
1:Am:16:ALA:HB3	2:At:9:ARG:HG3	1.87	0.57
6:Bd:230:LEU:H	6:Bd:233:LEU:HD11	1.69	0.57
6:Bv:200:SER:HB3	7:Em:816:GLU:HG2	1.86	0.57
6:Cz:125:GLU:O	6:Cz:129:LYS:HG3	2.05	0.57
6:Df:125:GLU:O	6:Df:128:VAL:HG22	2.05	0.57
8:Fa:276:ALA:O	8:Fa:280:ILE:HG12	2.05	0.57
9:Fb:45:VAL:HG23	9:Fb:49:LEU:HD23	1.86	0.57
9:Fb:105:LEU:O	9:Fb:108:THR:HG22	2.04	0.57
9:Fd:500:GLN:HA	9:Fd:503:LYS:HG2	1.87	0.57
6:Ch:107:ILE:HG22	7:El:797:ARG:HD3	1.86	0.57
5:Dw:250:LEU:HD12	5:Dw:251:GLN:HG3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fb:695:MET:O	9:Fb:695:MET:HE3	2.05	0.57
9:Fb:929:ALA:O	9:Fb:932:LEU:CB	2.53	0.57
9:Fb:932:LEU:HD12	9:Ff:770:ILE:HD12	1.87	0.57
9:Fc:370:PHE:HB2	9:Fc:410:THR:HG21	1.86	0.57
9:Fc:493:LYS:HA	9:Fc:493:LYS:HE3	1.87	0.57
9:Fc:684:ASN:HB3	9:Fc:687:VAL:HG22	1.86	0.57
9:Fd:186:GLY:HA2	9:Fd:189:ILE:HD11	1.87	0.57
9:Fd:590:PHE:HB3	9:Fd:593:LEU:HB2	1.87	0.57
9:Fd:631:LEU:O	9:Fd:636:VAL:HG23	2.05	0.57
9:Fd:745:ILE:HD11	9:Fd:916:LEU:HD13	1.87	0.57
9:Fe:124:MET:HG3	9:Fe:779:ALA:HB1	1.87	0.57
9:Fe:735:LEU:O	9:Fe:739:ILE:HG12	2.05	0.57
5:Ae:248:ASP:HB3	5:Ae:253:ARG:HB3	1.87	0.56
6:Af:109:LYS:O	6:Af:113:LYS:HG3	2.05	0.56
2:Bf:4:MET:HE3	5:Bi:249:SER:H	1.70	0.56
2:Cp:9:ARG:H	2:Cp:9:ARG:HD3	1.70	0.56
6:Cz:112:PHE:CA	6:Cz:115:MET:HE3	2.35	0.56
5:Dq:219:ARG:HG2	6:Dx:148:PRO:HD2	1.87	0.56
5:Dq:253:ARG:HG3	5:Dq:261:VAL:HG13	1.86	0.56
6:Dx:221:TYR:HD2	6:Dx:244:GLY:HA3	1.69	0.56
8:Ex:443:MET:HA	8:Ex:446:GLN:HG3	1.87	0.56
8:Ey:142:ILE:HD11	8:Ey:281:ARG:HH11	1.70	0.56
8:Ey:242:GLN:HB3	8:Ey:278:ASN:ND2	2.20	0.56
8:Ey:297:ALA:O	8:Ey:301:LEU:HD22	2.04	0.56
8:Ey:430:ARG:NH1	8:Ez:428:LEU:HB2	2.20	0.56
8:Ez:126:SER:HB2	8:Ez:171:ASN:HA	1.87	0.56
9:Fc:667:MET:O	9:Fc:670:ILE:HG13	2.05	0.56
9:Fe:180:GLY:O	9:Fe:184:ILE:HG22	2.05	0.56
9:Fe:586:LYS:HD2	9:Fe:587:PRO:HD2	1.86	0.56
9:Fe:769:LEU:O	9:Fe:773:ILE:HG13	2.04	0.56
9:Fe:822:ALA:HB1	9:Fe:930:PHE:CD1	2.40	0.56
9:Ff:71:LEU:O	9:Ff:75:ILE:HG12	2.05	0.56
9:Ff:124:MET:SD	9:Ff:779:ALA:HB1	2.45	0.56
9:Ff:765:SER:O	9:Ff:769:LEU:HG	2.05	0.56
6:Af:131:LYS:HD2	7:Ev:812:TRP:CH2	2.40	0.56
6:Af:250:TYR:CE2	6:Ed:238:MET:HB3	2.40	0.56
5:Bo:253:ARG:CZ	5:Bo:255:LEU:HD22	2.35	0.56
6:Ch:181:PHE:CZ	6:Ch:256:VAL:HG11	2.40	0.56
6:Ct:189:TRP:CD1	6:Ct:230:LEU:HD12	2.39	0.56
6:Df:111:ALA:O	6:Df:115:MET:HG2	2.05	0.56
6:Df:149:PRO:HB2	6:Df:248:VAL:HG13	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ed:110:LYS:HE3	7:Et:790:TYR:OH	2.06	0.56
7:Et:782:ASN:HA	7:Et:785:LEU:HG	1.88	0.56
7:Eu:793:GLU:HA	7:Eu:796:GLN:HE21	1.70	0.56
8:Ew:340:THR:HA	8:Fa:448:LEU:HD22	1.86	0.56
9:Fb:258:SER:HB2	9:Fb:283:LYS:HE3	1.87	0.56
9:Fb:259:PHE:CE2	9:Fb:286:ASN:HB2	2.39	0.56
9:Fb:908:VAL:HA	9:Fb:911:PHE:CD2	2.39	0.56
9:Fb:933:ILE:H	9:Fb:933:ILE:HD12	1.71	0.56
9:Fd:175:SER:HB2	9:Fd:488:GLY:H	1.70	0.56
9:Ff:655:ILE:HG23	9:Ff:659:PHE:CE1	2.39	0.56
9:Ff:710:MET:HA	9:Ff:714:SER:OG	2.05	0.56
6:Al:203:ASN:ND2	7:Ef:817:THR:HG23	2.19	0.56
5:Aw:212:ILE:HB	5:Aw:264:PHE:CD1	2.41	0.56
5:Bc:220:ALA:HB3	5:Bc:232:VAL:HG23	1.87	0.56
5:Bc:222:LEU:HD11	5:Bc:262:ILE:HG21	1.88	0.56
1:Be:4:ALA:HB2	3:Bg:14:TYR:HB2	1.86	0.56
6:Bp:202:PHE:HB3	6:Bp:215:ILE:HD11	1.88	0.56
6:Cn:117:ARG:NH2	7:En:797:ARG:HB2	2.20	0.56
6:Ct:181:PHE:HE2	6:Ct:213:LEU:HD12	1.70	0.56
1:Dm:11:TYR:CD2	3:Do:9:TYR:HB3	2.40	0.56
7:Eg:804:ALA:O	7:Eg:808:LEU:HD22	2.06	0.56
7:Em:806:THR:HA	7:Em:809:VAL:HG12	1.87	0.56
7:Em:812:TRP:CD1	7:Em:812:TRP:N	2.74	0.56
7:Es:805:ALA:HA	7:Es:808:LEU:HG	1.88	0.56
7:Eu:782:ASN:O	7:Eu:785:LEU:HD12	2.05	0.56
8:Ew:298:TYR:O	8:Ew:301:LEU:HD12	2.05	0.56
8:Ey:69:PHE:CE2	8:Ey:402:GLN:HB3	2.41	0.56
8:Ey:381:ARG:HH12	8:Ey:382:ARG:HG3	1.69	0.56
8:Ez:82:TYR:O	8:Ez:86:LEU:HG	2.05	0.56
8:Ez:82:TYR:CZ	8:Ez:86:LEU:HD11	2.40	0.56
8:Ez:189:PHE:HA	8:Ez:295:LEU:HD21	1.87	0.56
8:Ez:336:TYR:O	8:Ez:340:THR:HG23	2.05	0.56
8:Ez:457:PHE:CZ	8:Fa:293:PRO:HB3	2.37	0.56
9:Fb:469:PHE:HE2	9:Fc:843:TYR:HB2	1.71	0.56
9:Fb:605:MET:HG3	9:Fb:638:ARG:HD2	1.88	0.56
9:Fb:734:LEU:HD11	9:Fb:738:TRP:CE2	2.40	0.56
9:Fc:90:GLU:HG3	9:Fc:92:GLN:H	1.69	0.56
9:Fc:674:GLY:HA2	9:Fc:692:MET:HE2	1.86	0.56
9:Fd:177:VAL:HA	9:Fd:491:LEU:HD22	1.87	0.56
9:Fd:593:LEU:HG	9:Fd:905:TRP:HD1	1.71	0.56
9:Fe:288:SER:HA	9:Fe:291:ASN:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fe:596:PHE:HE2	9:Fe:652:ILE:HG22	1.70	0.56
9:Fe:704:TRP:HE3	9:Fe:707:LEU:HD12	1.69	0.56
9:Fe:753:ILE:HG23	9:Fe:926:VAL:HG11	1.86	0.56
7:Fi:33:VAL:O	7:Fi:37:PHE:HD1	1.89	0.56
6:Al:115:MET:HE1	7:Ev:802:LEU:N	2.21	0.56
6:Ax:115:MET:HE1	7:Ef:801:MET:HB2	1.87	0.56
6:Ax:172:SER:HB3	6:Ax:175:PHE:HB2	1.87	0.56
5:Bo:238:ILE:HD11	5:Bo:244:VAL:HB	1.86	0.56
6:Bp:150:LYS:H	6:Bp:247:ALA:HA	1.70	0.56
6:Cb:181:PHE:CD2	6:Cb:191:ILE:HD11	2.40	0.56
4:Cf:2:PHE:HB3	5:Cg:251:GLN:HE21	1.71	0.56
5:Cg:207:ARG:HH12	5:Cg:240:GLY:HA3	1.71	0.56
6:Ct:170:ARG:HD2	6:Ct:247:ALA:HB3	1.87	0.56
6:Ct:214:MET:HB2	7:Ep:820:TYR:OH	2.06	0.56
7:Ef:781:GLN:NE2	7:Ef:785:LEU:HD11	2.19	0.56
7:Ej:772:GLU:CD	7:Ej:772:GLU:H	2.13	0.56
8:Ew:383:LEU:HG	8:Fa:82:TYR:CE2	2.40	0.56
8:Ew:451:ALA:HB1	9:Fd:619:PHE:HE1	1.71	0.56
8:Ex:104:ASP:HA	8:Ex:109:ASN:HD22	1.71	0.56
8:Ey:431:GLN:O	8:Ey:435:ARG:HG3	2.05	0.56
8:Ez:90:PRO:HB2	8:Fa:246:ASN:HD21	1.71	0.56
8:Ez:317:VAL:HG22	8:Fa:198:TRP:CD1	2.40	0.56
8:Ez:418:LEU:O	8:Ez:422:ILE:HG12	2.05	0.56
9:Fc:339:MET:O	9:Fc:343:LEU:HG	2.05	0.56
9:Ff:702:THR:O	9:Ff:706:THR:HG23	2.05	0.56
5:Ae:245:LYS:NZ	5:Ae:255:LEU:HB3	2.21	0.56
2:Bx:4:MET:SD	5:Ca:248:ASP:HA	2.45	0.56
3:By:2:VAL:HG11	6:Cn:129:LYS:HG2	1.87	0.56
6:Ct:221:TYR:OH	6:Cz:135:GLU:HG2	2.06	0.56
5:De:215:VAL:HG22	5:De:249:SER:HB3	1.87	0.56
6:Df:125:GLU:OE1	6:Df:129:LYS:HD3	2.04	0.56
6:Df:238:MET:HA	6:Df:238:MET:HE3	1.87	0.56
8:Ew:353:LYS:HG3	8:Ew:354:ARG:NE	2.21	0.56
8:Ex:327:SER:CB	8:Ey:211:MET:HE1	2.36	0.56
8:Ey:207:GLN:O	8:Ey:211:MET:HG3	2.06	0.56
9:Fc:188:GLN:O	9:Fc:192:LEU:HG	2.06	0.56
9:Ff:913:PHE:O	9:Ff:917:ILE:HG22	2.05	0.56
7:Fg:23:PHE:CE1	7:Fg:27:LEU:HD11	2.41	0.56
6:Bj:193:ALA:HB1	7:Ek:820:TYR:HE2	1.70	0.56
6:Bp:123:ASN:OD1	6:Bp:124:PRO:HD2	2.05	0.56
2:Br:2:VAL:HG22	3:Bs:1:ARG:NE	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Cz:250:TYR:HE2	6:Cz:251:ARG:HH21	1.53	0.56
6:Df:115:MET:SD	7:Ep:802:LEU:HD22	2.44	0.56
6:Df:223:TYR:HB2	6:Df:242:ILE:HA	1.88	0.56
5:Ec:238:ILE:HD11	5:Ec:244:VAL:HG23	1.86	0.56
7:Ef:808:LEU:O	7:Ef:812:TRP:CD1	2.58	0.56
8:Ew:125:PHE:HZ	8:Ew:176:GLN:HG3	1.70	0.56
8:Ew:246:ASN:HD21	8:Ew:250:ALA:HB3	1.70	0.56
8:Ew:399:TRP:CD1	8:Ew:403:ILE:HD11	2.41	0.56
8:Ex:117:ASN:HB3	8:Ex:121:LYS:HD3	1.88	0.56
8:Ex:339:GLN:O	8:Ex:342:VAL:HG22	2.05	0.56
9:Fb:60:MET:O	9:Fb:64:PHE:HB3	2.06	0.56
9:Fb:69:LEU:HD11	7:Fh:38:LYS:HZ3	1.71	0.56
9:Fb:905:TRP:CZ2	9:Ff:705:LEU:HD21	2.39	0.56
9:Fc:176:GLY:HA3	9:Fc:492:ASP:HB3	1.88	0.56
9:Fe:465:GLY:HA2	9:Fe:819:TYR:HE1	1.70	0.56
9:Ff:188:GLN:O	9:Ff:192:LEU:HD13	2.05	0.56
9:Ff:628:MET:HE2	9:Ff:628:MET:N	2.20	0.56
6:Ar:129:LYS:HG3	6:Ax:112:PHE:CZ	2.40	0.56
6:Bj:135:GLU:HA	6:Bj:138:GLU:OE1	2.05	0.56
5:Ca:219:ARG:HG2	6:Ch:148:PRO:HD2	1.87	0.56
5:Cm:264:PHE:HB3	5:Cm:269:SER:HB3	1.85	0.56
6:Df:173:GLN:HB2	6:Df:220:LEU:HD23	1.88	0.56
6:Df:189:TRP:HE1	6:Df:232:GLY:H	1.52	0.56
2:Dh:2:VAL:HA	3:Di:1:ARG:HE	1.71	0.56
5:Dk:213:GLN:CD	6:Dl:168:VAL:HG21	2.31	0.56
5:Dw:212:ILE:HG13	5:Dw:262:ILE:HG22	1.87	0.56
8:Ew:185:PRO:HA	8:Ew:292:LEU:HD12	1.88	0.56
8:Ex:431:GLN:HB3	8:Ex:435:ARG:NH2	2.21	0.56
8:Ey:322:ALA:O	8:Ey:326:LEU:HG	2.06	0.56
9:Fb:199:GLN:HA	9:Fb:230:ILE:HD13	1.88	0.56
9:Fb:766:PHE:HB3	9:Fc:928:LYS:HZ2	1.71	0.56
9:Fe:113:LEU:CD1	9:Fe:124:MET:HB2	2.36	0.56
9:Fe:703:LEU:O	9:Fe:707:LEU:HG	2.06	0.56
6:Bv:126:GLN:HA	6:Bv:129:LYS:HG3	1.87	0.56
6:Cn:176:VAL:HG23	6:Cn:214:MET:HB2	1.88	0.56
5:De:215:VAL:HG11	5:De:252:GLY:HA2	1.87	0.56
6:Dl:221:TYR:CE1	6:Dr:142:ALA:HB3	2.41	0.56
5:Dw:233:ARG:HG2	5:Dw:234:GLU:H	1.70	0.56
7:Ej:789:LYS:HA	7:Ej:792:GLN:OE1	2.06	0.56
8:Ey:346:ASN:HA	8:Ey:435:ARG:NH1	2.20	0.56
8:Ez:426:MET:HA	8:Ez:429:ASP:CG	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fb:493:LYS:HZ2	9:Fc:597:LYS:HE3	1.71	0.56
9:Fb:547:GLN:HA	9:Fb:568:TYR:HE1	1.70	0.56
9:Fb:598:VAL:HG21	9:Fb:652:ILE:HG21	1.88	0.56
9:Fc:108:THR:HG22	7:Fg:27:LEU:HD21	1.87	0.56
9:Fc:128:PHE:O	9:Fc:132:ILE:HG12	2.05	0.56
9:Fc:645:LEU:HA	9:Fc:648:PHE:HB3	1.88	0.56
9:Fd:213:PRO:HB2	9:Fd:222:MET:CE	2.31	0.56
9:Fd:438:ARG:HH12	9:Fd:439:GLN:HG2	1.71	0.56
9:Fe:335:ALA:HB1	9:Fe:426:TYR:HE1	1.71	0.56
9:Fe:641:TYR:CE2	9:Fe:645:LEU:HD21	2.41	0.56
9:Fe:690:ALA:O	9:Fe:694:THR:HG23	2.06	0.56
9:Ff:524:SER:O	9:Ff:528:ILE:HG13	2.06	0.56
7:Fk:35:GLY:O	7:Fk:39:ILE:HG12	2.05	0.56
6:Af:130:LEU:HA	6:Af:133:ILE:HG22	1.86	0.56
6:Ar:123:ASN:HB3	6:Ar:126:GLN:HG3	1.86	0.56
6:Ax:229:ARG:NH1	6:Ax:236:PRO:HA	2.13	0.56
6:Bd:238:MET:N	6:Bj:251:ARG:HH12	2.04	0.56
6:Bp:238:MET:HG3	6:Bv:250:TYR:HE1	1.69	0.56
5:Cm:215:VAL:HG22	5:Cm:220:ALA:HB1	1.88	0.56
6:Cn:238:MET:N	6:Ct:251:ARG:HH12	2.02	0.56
6:Ct:111:ALA:HB1	7:En:798:THR:HG23	1.88	0.56
7:Ej:799:SER:HA	7:Ej:802:LEU:CD2	2.36	0.56
8:Ew:198:TRP:CH2	8:Fa:317:VAL:HA	2.41	0.56
8:Ez:424:TYR:HE2	8:Fa:380:THR:HA	1.70	0.56
9:Fb:220:PRO:HB2	9:Fc:367:LYS:NZ	2.21	0.56
9:Fc:674:GLY:O	9:Fc:678:LEU:HG	2.05	0.56
9:Fe:56:ILE:HB	9:Ff:820:ILE:HD11	1.86	0.56
9:Fe:162:ASP:HB3	9:Fe:165:LYS:HB2	1.88	0.56
9:Fe:636:VAL:O	9:Fe:640:VAL:HG23	2.05	0.56
9:Fe:768:TRP:C	9:Fe:768:TRP:CD1	2.84	0.56
9:Ff:339:MET:O	9:Ff:343:LEU:HG	2.05	0.56
9:Ff:523:LYS:HB2	9:Ff:526:LYS:NZ	2.21	0.56
9:Ff:735:LEU:O	9:Ff:739:ILE:HG12	2.04	0.56
9:Ff:917:ILE:HD12	9:Ff:921:MET:SD	2.45	0.56
5:Aq:244:VAL:HA	5:Aq:256:THR:HA	1.88	0.56
8:Ey:419:LEU:HA	8:Ey:422:ILE:HG12	1.87	0.56
9:Fb:692:MET:HE3	9:Fb:696:TYR:CE2	2.41	0.56
9:Fb:758:TYR:O	9:Fb:762:THR:HG23	2.06	0.56
9:Fc:704:TRP:HH2	9:Fd:733:PRO:HG2	1.70	0.56
9:Fc:760:ILE:HA	9:Fc:763:PHE:CD2	2.41	0.56
9:Fd:78:TYR:HA	9:Fd:81:MET:CE	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fd:567:VAL:O	9:Fd:571:VAL:HG23	2.06	0.56
9:Fe:110:GLY:HA3	9:Fe:787:THR:HG22	1.87	0.56
9:Fe:355:PRO:HG3	9:Fe:375:LYS:HG3	1.88	0.56
9:Fe:605:MET:HE3	9:Fe:605:MET:N	2.20	0.56
9:Ff:34:SER:O	9:Ff:38:LEU:HG	2.06	0.56
9:Ff:73:GLY:C	9:Ff:77:MET:HE2	2.30	0.56
5:Aw:221:TRP:HZ2	6:Bd:151:PRO:HG3	1.70	0.55
6:Bd:189:TRP:CG	6:Bd:230:LEU:HD13	2.40	0.55
4:Bh:2:PHE:HB2	5:Bi:251:GLN:NE2	2.21	0.55
6:Bj:189:TRP:NE1	6:Bj:232:GLY:H	2.04	0.55
5:Bo:221:TRP:CZ2	5:Bo:223:ILE:HD11	2.41	0.55
5:Ca:232:VAL:HG23	5:Ca:236:SER:HB3	1.88	0.55
6:Cb:196:LEU:HD21	6:Cb:199:PRO:HB3	1.88	0.55
6:Ch:121:PRO:HB2	7:Em:801:MET:HE1	1.88	0.55
5:Cm:219:ARG:HH11	5:Cm:233:ARG:HB3	1.70	0.55
6:Dr:115:MET:HA	6:Dr:118:ASN:OD1	2.06	0.55
7:Ej:776:ALA:O	7:Ej:780:LYS:HD2	2.06	0.55
8:Ew:430:ARG:HH22	8:Ex:428:LEU:HB2	1.70	0.55
8:Ex:351:LEU:HD12	8:Ex:352:SER:N	2.21	0.55
8:Ez:382:ARG:HB3	8:Ez:399:TRP:CD1	2.41	0.55
8:Fa:419:LEU:HA	8:Fa:422:ILE:CG1	2.27	0.55
9:Fb:41:LEU:HB2	9:Fc:828:VAL:HG11	1.88	0.55
9:Fe:940:VAL:HA	9:Fe:943:TRP:CE3	2.41	0.55
3:Ai:5:GLY:O	4:Ap:1:PRO:HB3	2.06	0.55
6:Bd:158:VAL:HB	6:Bd:256:VAL:HA	1.87	0.55
6:Bp:160:LEU:HD21	6:Bp:235:THR:HG23	1.88	0.55
1:Bw:2:THR:O	1:Bw:6:LEU:HD22	2.06	0.55
5:Cg:264:PHE:HB3	5:Cg:269:SER:HB3	1.88	0.55
6:Ch:185:THR:HB	6:Ch:259:TYR:CZ	2.42	0.55
6:Cz:115:MET:HE1	7:Eo:797:ARG:HH21	1.71	0.55
6:Cz:134:TYR:HE1	7:Ep:812:TRP:HB3	1.72	0.55
6:Dr:124:PRO:O	6:Dr:128:VAL:HG13	2.07	0.55
6:Dx:106:VAL:HA	6:Dx:109:LYS:NZ	2.22	0.55
6:Dx:117:ARG:HE	7:Et:797:ARG:HG3	1.71	0.55
7:Ej:798:THR:O	7:Ej:802:LEU:HD22	2.06	0.55
7:Et:780:LYS:HA	7:Et:783:GLU:CD	2.31	0.55
8:Ez:211:MET:HA	8:Ez:214:VAL:HB	1.87	0.55
8:Ez:331:ASN:HA	8:Ez:334:ARG:HG2	1.88	0.55
9:Fd:692:MET:O	9:Fd:696:TYR:HB2	2.07	0.55
9:Fe:185:LEU:HB2	9:Fe:343:LEU:HD13	1.88	0.55
9:Fe:540:LEU:HD23	9:Fe:562:PRO:HB2	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Fj:16:ARG:HE	7:Fj:17:THR:HG22	1.71	0.55
5:Bc:245:LYS:N	5:Bc:245:LYS:HD2	2.21	0.55
6:Bj:196:LEU:HD21	6:Bj:199:PRO:HB3	1.86	0.55
6:Bp:219:LYS:HE3	6:Bp:221:TYR:H	1.71	0.55
6:Dl:112:PHE:O	6:Dl:116:THR:HG23	2.06	0.55
6:Dl:144:THR:HG21	6:Dl:148:PRO:HG3	1.87	0.55
6:Dl:179:LEU:HB3	6:Dl:181:PHE:CE1	2.42	0.55
6:Dx:111:ALA:HA	6:Dx:114:ASP:OD2	2.06	0.55
7:Es:788:GLN:HB3	7:Es:792:GLN:NE2	2.15	0.55
8:Ew:428:LEU:O	8:Ew:432:ILE:HG12	2.06	0.55
8:Ez:72:ASN:O	8:Ez:75:GLN:HG2	2.06	0.55
8:Ez:327:SER:HB3	8:Fa:215:ILE:HG21	1.88	0.55
8:Ez:360:SER:HB2	8:Ez:366:ALA:HA	1.88	0.55
9:Fc:143:TRP:CZ2	9:Fc:456:ALA:HB1	2.42	0.55
9:Fc:515:LEU:H	9:Fc:515:LEU:HD12	1.71	0.55
9:Fe:512:PRO:HG2	9:Fe:513:TYR:CZ	2.42	0.55
9:Fe:528:ILE:HA	9:Fe:531:GLN:HG2	1.87	0.55
6:Cb:191:ILE:HB	6:Cb:206:TRP:CZ2	2.41	0.55
6:Ch:199:PRO:HD2	7:Eo:816:GLU:OE1	2.06	0.55
6:Df:230:LEU:HD12	6:Df:231:ARG:H	1.71	0.55
5:Dk:244:VAL:HA	5:Dk:256:THR:HA	1.88	0.55
8:Ew:384:PHE:HB2	8:Fa:78:GLN:NE2	2.21	0.55
8:Fa:77:VAL:O	8:Fa:378:MET:HE1	2.06	0.55
9:Fb:675:VAL:HA	9:Fb:678:LEU:HG	1.89	0.55
9:Fb:747:PHE:HA	9:Fb:751:TYR:HB2	1.89	0.55
9:Fd:130:TRP:HD1	9:Fd:134:GLN:NE2	2.04	0.55
9:Fd:378:PHE:HB3	9:Fd:414:PHE:HD2	1.69	0.55
9:Fd:612:CYS:HB2	9:Fd:626:ARG:HE	1.71	0.55
9:Fd:909:TYR:CD2	9:Fd:912:PHE:HE2	2.24	0.55
9:Fe:729:MET:SD	9:Fe:730:MET:N	2.80	0.55
1:Am:11:TYR:CD2	3:Ao:9:TYR:HB3	2.42	0.55
6:Bd:106:VAL:HG23	6:Bd:110:LYS:NZ	2.21	0.55
6:Bj:125:GLU:O	6:Bj:128:VAL:HG22	2.07	0.55
6:Ch:125:GLU:O	6:Ch:129:LYS:HG3	2.06	0.55
6:Cn:242:ILE:HD12	6:Cn:243:PRO:HD2	1.88	0.55
6:Ct:106:VAL:HG23	6:Ct:110:LYS:NZ	2.20	0.55
6:Cz:181:PHE:HE2	6:Cz:191:ILE:HD11	1.71	0.55
6:Dr:112:PHE:HA	6:Dr:115:MET:SD	2.47	0.55
7:Eq:797:ARG:O	7:Eq:797:ARG:HD2	2.07	0.55
8:Ew:383:LEU:HG	8:Fa:82:TYR:HE2	1.71	0.55
8:Ey:111:LEU:HD12	8:Ey:112:ILE:HD13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ey:430:ARG:NH2	8:Ez:428:LEU:HB2	2.21	0.55
9:Fb:138:ALA:O	9:Fb:142:ILE:HG12	2.06	0.55
9:Fc:663:PRO:HG3	9:Fc:703:LEU:HD11	1.88	0.55
9:Fd:129:MET:O	9:Fd:133:VAL:HG23	2.07	0.55
9:Fd:420:LEU:HD22	9:Fd:579:LEU:HD21	1.88	0.55
9:Fd:469:PHE:O	9:Fd:472:VAL:HB	2.07	0.55
5:Bi:255:LEU:HD13	5:Bi:261:VAL:HG13	1.89	0.55
6:Bj:221:TYR:CE2	6:Bp:142:ALA:HB3	2.42	0.55
6:Bj:223:TYR:HB2	6:Bj:242:ILE:HA	1.88	0.55
6:Bv:115:MET:SD	7:Ej:801:MET:SD	3.04	0.55
6:Cz:229:ARG:NH1	6:Df:212:THR:HG21	2.22	0.55
5:Dq:219:ARG:NH1	5:Dq:233:ARG:HB3	2.22	0.55
6:Dr:111:ALA:HB1	6:Dr:115:MET:HE1	1.89	0.55
7:Eu:798:THR:HA	7:Eu:801:MET:HG2	1.89	0.55
8:Ex:298:TYR:CZ	8:Ey:230:PHE:HE2	2.24	0.55
8:Ey:426:MET:C	8:Ey:426:MET:HE2	2.31	0.55
8:Ez:101:PHE:CE2	8:Fa:252:LEU:HB2	2.42	0.55
9:Fb:585:ILE:H	9:Fb:585:ILE:HD12	1.72	0.55
9:Fb:692:MET:HE3	9:Fb:696:TYR:HE2	1.72	0.55
9:Fc:78:TYR:HA	9:Fc:81:MET:HE3	1.89	0.55
9:Fc:741:THR:HG23	9:Fc:916:LEU:HD11	1.89	0.55
9:Fd:111:LEU:HD13	7:Fk:31:ALA:HB2	1.89	0.55
9:Fd:255:GLN:HG3	9:Fd:290:LEU:HD22	1.89	0.55
6:Af:148:PRO:HD2	5:Ec:218:GLY:HA3	1.89	0.55
5:Bo:264:PHE:HD2	6:Bp:246:LYS:HE2	1.72	0.55
6:Bv:201:SER:HA	6:Bv:219:LYS:HE3	1.88	0.55
5:Cg:219:ARG:H	6:Cn:148:PRO:HD2	1.72	0.55
5:Cm:219:ARG:HD3	6:Ct:246:LYS:NZ	2.22	0.55
5:Cs:213:GLN:HB2	5:Cs:223:ILE:HG22	1.89	0.55
6:Cz:169:ILE:HD13	6:Cz:241:LEU:HG	1.88	0.55
2:Dn:5:ILE:HD12	6:Dx:139:TYR:HB2	1.89	0.55
7:Eq:773:GLN:OE1	7:Eq:777:ILE:HD11	2.06	0.55
8:Ew:39:LEU:HD12	8:Ex:39:LEU:HD11	1.87	0.55
8:Ew:191:MET:HE3	8:Ew:192:ASP:H	1.71	0.55
8:Ew:191:MET:HE1	8:Ew:197:ASN:N	2.22	0.55
8:Fa:74:VAL:O	8:Fa:78:GLN:CB	2.55	0.55
9:Fb:757:PRO:HB3	9:Fb:930:PHE:CE1	2.42	0.55
9:Fc:342:THR:HG23	9:Fc:343:LEU:HD23	1.88	0.55
9:Fd:723:PHE:CD1	9:Fd:726:ALA:HB3	2.42	0.55
9:Fd:735:LEU:O	9:Fd:739:ILE:HG12	2.07	0.55
9:Fe:33:LEU:HD13	9:Fe:462:ILE:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fe:596:PHE:HD2	9:Fe:656:VAL:HG21	1.72	0.55
9:Fe:766:PHE:O	9:Fe:770:ILE:HG13	2.06	0.55
9:Ff:540:LEU:HD21	9:Ff:563:LEU:HD22	1.88	0.55
9:Ff:642:ASN:HA	9:Ff:645:LEU:HB3	1.89	0.55
7:Fg:34:ILE:HA	7:Fg:38:LYS:HZ1	1.72	0.55
3:Ac:2:VAL:HG21	6:Ar:129:LYS:HB3	1.89	0.55
5:Aq:248:ASP:HB3	5:Aq:253:ARG:HG2	1.87	0.55
5:Bc:245:LYS:HZ2	5:Bc:257:SER:HB3	1.72	0.55
5:Bu:215:VAL:HG11	5:Bu:252:GLY:HA2	1.89	0.55
5:De:211:TYR:HD2	5:De:263:LYS:O	1.90	0.55
6:Df:238:MET:HB3	6:Dl:250:TYR:HE1	1.72	0.55
6:Dx:216:GLN:NE2	7:Eu:817:THR:HA	2.19	0.55
7:Em:780:LYS:HG3	7:Em:781:GLN:NE2	2.22	0.55
7:Em:785:LEU:HA	7:Em:788:GLN:HB3	1.89	0.55
7:Eo:798:THR:HA	7:Eo:801:MET:HG2	1.88	0.55
8:Ex:193:ASN:HB2	8:Ex:194:GLU:OE2	2.07	0.55
8:Ey:304:GLN:HE22	8:Ey:319:GLN:N	2.05	0.55
8:Fa:118:THR:HA	8:Fa:121:LYS:HE3	1.88	0.55
8:Fa:348:TYR:HD1	8:Fa:351:LEU:HD23	1.70	0.55
9:Fc:223:ASN:O	9:Fc:227:ARG:HG2	2.07	0.55
9:Fc:528:ILE:HA	9:Fc:531:GLN:HG2	1.88	0.55
9:Fd:185:LEU:O	9:Fd:189:ILE:HG12	2.06	0.55
9:Fd:586:LYS:HZ3	9:Fd:588:LEU:HA	1.71	0.55
9:Fe:335:ALA:HB1	9:Fe:426:TYR:CE1	2.41	0.55
9:Ff:624:LEU:O	9:Ff:628:MET:HG2	2.07	0.55
9:Ff:915:ILE:O	9:Ff:919:THR:HG23	2.07	0.55
6:Af:199:PRO:HG3	7:Ef:819:VAL:HG13	1.88	0.55
6:Ar:126:GLN:HG2	6:Ar:129:LYS:NZ	2.21	0.55
6:Bj:145:PRO:HG3	6:Bp:131:LYS:HE2	1.88	0.55
6:Ct:108:ASP:HA	7:En:797:ARG:HH21	1.72	0.55
6:Ct:150:LYS:HG2	6:Ct:152:THR:HG23	1.87	0.55
6:Cz:191:ILE:HD12	6:Cz:206:TRP:NE1	2.21	0.55
6:Df:237:VAL:C	6:Dl:251:ARG:HH22	2.14	0.55
6:Dr:138:GLU:HA	6:Dr:141:LYS:HE2	1.87	0.55
6:Dr:226:LEU:HB2	6:Dr:241:LEU:HD11	1.88	0.55
7:Eq:797:ARG:HG3	7:Eq:801:MET:HE2	1.89	0.55
7:Er:794:ILE:HA	7:Er:797:ARG:CZ	2.37	0.55
8:Ex:431:GLN:O	8:Ex:435:ARG:HG2	2.06	0.55
9:Fb:144:GLU:HA	9:Fb:147:LEU:HG	1.88	0.55
9:Fc:467:TYR:O	9:Fc:470:ASP:HB2	2.06	0.55
9:Fc:773:ILE:O	9:Fc:777:VAL:HG13	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fd:237:VAL:HG21	9:Fd:263:MET:HB2	1.89	0.55
9:Fd:634:ASN:HA	9:Fd:638:ARG:HG3	1.89	0.55
9:Ff:77:MET:HE1	7:Fi:32:VAL:HG11	1.89	0.55
9:Ff:182:LEU:HD23	9:Ff:571:VAL:HG11	1.88	0.55
6:Al:118:ASN:O	6:Al:121:PRO:HD3	2.07	0.55
6:Bj:129:LYS:HE3	6:Bp:112:PHE:HE2	1.68	0.55
1:Bk:9:LEU:O	1:Bk:13:LYS:HG2	2.07	0.55
6:Bp:219:LYS:HD2	6:Bp:220:LEU:H	1.72	0.55
6:Cb:208:LYS:HG3	7:En:824:THR:H	1.71	0.55
6:Dr:205:GLN:HG2	7:Et:818:GLN:HE21	1.72	0.55
6:Dr:238:MET:CE	6:Dx:178:SER:HB3	2.37	0.55
6:Dx:136:THR:HA	6:Dx:139:TYR:CE1	2.42	0.55
6:Ed:108:ASP:O	6:Ed:112:PHE:HB2	2.07	0.55
7:Ek:804:ALA:O	7:Ek:807:GLN:HG3	2.06	0.55
8:Ew:189:PHE:HD2	8:Ew:295:LEU:HB2	1.71	0.55
8:Ew:210:VAL:O	8:Ew:214:VAL:HG23	2.07	0.55
8:Ew:318:GLN:H	8:Ew:318:GLN:CD	2.15	0.55
8:Ex:82:TYR:CB	8:Ey:383:LEU:HD21	2.35	0.55
8:Ex:441:SER:HB3	8:Ey:346:ASN:OD1	2.07	0.55
8:Ez:298:TYR:CZ	8:Fa:230:PHE:HE2	2.24	0.55
8:Fa:440:ASN:O	8:Fa:443:MET:HG2	2.07	0.55
9:Fb:617:ILE:HG12	9:Fc:617:ILE:HG22	1.89	0.55
9:Fb:828:VAL:O	9:Fb:832:ILE:HG12	2.07	0.55
9:Fb:925:ILE:HD12	9:Fb:925:ILE:H	1.71	0.55
9:Fc:196:LYS:HD3	9:Fc:197:GLN:HE21	1.72	0.55
9:Fe:392:TYR:HB2	9:Fe:576:MET:HE2	1.89	0.55
9:Fe:814:LEU:HD12	9:Fe:937:PRO:HB3	1.88	0.55
9:Fe:932:LEU:H	9:Fe:932:LEU:HD22	1.71	0.55
9:Ff:262:ASP:HB2	9:Ff:277:GLY:HA2	1.88	0.55
9:Ff:674:GLY:O	9:Ff:678:LEU:HG	2.06	0.55
6:Al:189:TRP:CD1	6:Al:230:LEU:HD11	2.43	0.54
6:Ar:112:PHE:O	6:Ar:116:THR:HG23	2.07	0.54
5:Bi:213:GLN:OE1	5:Bi:223:ILE:HG12	2.07	0.54
6:Bj:205:GLN:NE2	7:Ej:820:TYR:HB2	2.21	0.54
6:Df:199:PRO:HG3	7:Es:819:VAL:HG13	1.88	0.54
6:Df:208:LYS:HB3	7:Es:823:GLY:HA2	1.89	0.54
6:Dr:181:PHE:HE1	6:Dr:237:VAL:HG21	1.72	0.54
7:Eh:798:THR:O	7:Eh:802:LEU:HD22	2.07	0.54
7:Eq:807:GLN:HA	7:Eq:810:GLN:CD	2.32	0.54
8:Ew:174:VAL:O	8:Ew:178:VAL:HG23	2.08	0.54
8:Ew:238:PRO:O	8:Ew:242:GLN:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ey:82:TYR:O	8:Ey:86:LEU:HG	2.06	0.54
8:Ey:206:TYR:CZ	8:Ey:209:LEU:HB2	2.42	0.54
8:Fa:415:ILE:O	8:Fa:419:LEU:HG	2.07	0.54
9:Fb:642:ASN:O	9:Fb:645:LEU:HD12	2.08	0.54
9:Fc:381:PRO:HB3	9:Fc:577:VAL:HG12	1.89	0.54
9:Fd:147:LEU:HD11	9:Fd:457:ASN:HD21	1.72	0.54
9:Fd:530:ILE:O	9:Fd:534:ILE:HG12	2.06	0.54
9:Ff:290:LEU:HD22	9:Ff:329:ARG:NH2	2.22	0.54
9:Ff:927:GLN:O	9:Ff:931:THR:HG23	2.07	0.54
2:Ab:4:MET:HE1	5:Ae:249:SER:N	2.23	0.54
6:Af:106:VAL:HG23	6:Af:110:LYS:HZ3	1.71	0.54
2:Bf:4:MET:HE2	4:Bh:2:PHE:HE1	1.71	0.54
5:Bi:253:ARG:HB2	5:Bi:263:LYS:NZ	2.22	0.54
6:Bj:171:LEU:HD11	6:Bj:241:LEU:HB3	1.89	0.54
6:Bv:108:ASP:HA	7:Ej:797:ARG:HH12	1.73	0.54
6:Cb:206:TRP:HB2	6:Cb:213:LEU:HD23	1.89	0.54
6:Cn:238:MET:HG3	6:Ct:251:ARG:NH2	2.22	0.54
5:Cy:219:ARG:NH1	5:Cy:233:ARG:HB3	2.22	0.54
6:Dl:132:GLN:O	6:Dl:136:THR:HG23	2.07	0.54
6:Dl:141:LYS:HD3	6:Dl:141:LYS:C	2.32	0.54
6:Dl:237:VAL:C	6:Dr:251:ARG:HH22	2.15	0.54
6:Dx:168:VAL:HG13	6:Dx:242:ILE:HD13	1.88	0.54
6:Ed:189:TRP:CD1	6:Ed:230:LEU:HD23	2.43	0.54
7:Ei:789:LYS:HE2	9:Fd:267:ASP:N	2.23	0.54
8:Ew:144:GLN:HB2	8:Ew:179:PHE:CE1	2.42	0.54
8:Ey:205:MET:HE1	8:Ey:209:LEU:HG	1.90	0.54
8:Ey:281:ARG:C	8:Ey:286:GLN:HE21	2.16	0.54
8:Ey:429:ASP:O	8:Ey:433:GLN:HG2	2.06	0.54
9:Fb:616:LYS:HD2	9:Fb:621:SER:HB3	1.88	0.54
9:Ff:94:LEU:HD13	9:Ff:98:TRP:HD1	1.72	0.54
1:As:9:LEU:HB2	2:At:2:VAL:HG21	1.89	0.54
6:Ax:219:LYS:HD2	6:Ax:222:ASN:ND2	2.23	0.54
5:Bo:215:VAL:HG22	5:Bo:249:SER:HB3	1.90	0.54
6:Dr:206:TRP:HB2	6:Dr:213:LEU:HD23	1.90	0.54
7:Eh:778:LEU:O	7:Eh:781:GLN:HG2	2.06	0.54
7:El:797:ARG:HA	7:El:800:ASP:OD2	2.08	0.54
8:Ey:277:LEU:HD12	8:Ey:278:ASN:N	2.21	0.54
8:Ez:330:PHE:HB3	8:Ez:334:ARG:NH2	2.22	0.54
9:Fb:643:PHE:O	9:Fb:647:ILE:HG12	2.07	0.54
9:Fc:86:ASN:HA	9:Fc:89:HIS:CD2	2.35	0.54
9:Fd:39:GLY:HA2	9:Fd:49:LEU:HD21	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fe:187:GLY:O	9:Fe:191:MET:HE2	2.06	0.54
9:Ff:117:LYS:HZ3	9:Ff:119:SER:N	2.06	0.54
6:Af:216:GLN:HG2	7:Ee:818:GLN:HG2	1.89	0.54
1:Ag:6:LEU:HA	1:Ag:9:LEU:HG	1.90	0.54
5:Ak:253:ARG:C	5:Ak:254:ILE:HD13	2.32	0.54
6:Ar:204:ILE:HG23	6:Ar:215:ILE:HG12	1.89	0.54
5:Bo:207:ARG:HH12	5:Bo:209:ILE:HG13	1.72	0.54
6:Cb:151:PRO:HA	6:Cb:248:VAL:HG13	1.89	0.54
6:Ch:228:VAL:HB	6:Ch:237:VAL:HG13	1.88	0.54
5:Cm:247:ILE:HG23	5:Cm:254:ILE:HD12	1.88	0.54
6:Cn:216:GLN:HG2	7:Eo:818:GLN:NE2	2.23	0.54
5:Cy:221:TRP:CZ3	5:Cy:229:THR:HG22	2.43	0.54
5:De:212:ILE:HG21	5:De:215:VAL:HB	1.89	0.54
3:Do:2:VAL:HB	6:Ed:129:LYS:HB3	1.88	0.54
8:Ex:338:ALA:O	8:Ex:342:VAL:HG13	2.06	0.54
8:Ex:430:ARG:NH1	8:Ey:428:LEU:HB2	2.23	0.54
8:Ez:209:LEU:HD23	8:Ez:213:ASN:HD21	1.72	0.54
8:Ez:430:ARG:NH2	8:Fa:425:GLN:HG3	2.22	0.54
8:Fa:174:VAL:O	8:Fa:178:VAL:HG23	2.08	0.54
8:Fa:249:ILE:C	8:Fa:354:ARG:HH12	2.16	0.54
9:Fb:234:ILE:H	9:Fb:234:ILE:HD12	1.73	0.54
9:Fc:630:ASP:HA	9:Fc:634:ASN:HB2	1.88	0.54
9:Fd:745:ILE:CG2	9:Fd:919:THR:HG21	2.33	0.54
9:Fe:760:ILE:HA	9:Fe:763:PHE:CE1	2.43	0.54
9:Fe:828:VAL:O	9:Fe:832:ILE:HG12	2.08	0.54
6:Ax:111:ALA:HB3	7:Ef:797:ARG:NH1	2.15	0.54
6:Ax:170:ARG:HH11	6:Ax:247:ALA:HB1	1.72	0.54
2:Az:5:ILE:HG21	6:Bj:140:ALA:HB2	1.88	0.54
6:Ch:153:ALA:HB1	6:Ch:251:ARG:NE	2.23	0.54
1:Co:12:HIS:CE1	3:Cq:9:TYR:HB2	2.43	0.54
6:Dr:168:VAL:HG23	6:Dr:242:ILE:HD13	1.90	0.54
5:Dw:215:VAL:HG11	5:Dw:252:GLY:HA2	1.89	0.54
8:Ew:68:LEU:HD21	8:Ew:74:VAL:HG21	1.89	0.54
8:Ew:240:ILE:HG23	8:Fa:94:MET:HE3	1.87	0.54
8:Ey:172:ASP:HB3	8:Ey:175:SER:OG	2.07	0.54
9:Fc:426:TYR:O	9:Fc:430:MET:HG2	2.08	0.54
9:Fe:606:LYS:HD3	9:Fe:606:LYS:N	2.23	0.54
9:Fe:733:PRO:HA	9:Fe:736:MET:HE2	1.90	0.54
9:Fe:936:LEU:O	9:Fe:940:VAL:HG23	2.07	0.54
9:Ff:663:PRO:HG2	9:Ff:738:TRP:HE3	1.73	0.54
9:Ff:717:ILE:HD11	9:Ff:720:PHE:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Al:220:LEU:HD21	6:Ar:138:GLU:OE1	2.07	0.54
6:Ar:126:GLN:HG2	6:Ar:129:LYS:HZ1	1.72	0.54
6:Bd:238:MET:HG2	6:Bj:251:ARG:CZ	2.38	0.54
5:Cs:263:LYS:HD2	5:Cs:263:LYS:C	2.33	0.54
6:Dl:189:TRP:HE1	6:Dl:232:GLY:H	1.54	0.54
6:Dx:189:TRP:NE1	6:Dx:232:GLY:H	2.01	0.54
6:Ed:125:GLU:C	6:Ed:129:LYS:HE3	2.33	0.54
6:Ed:171:LEU:HD23	6:Ed:217:ALA:HB2	1.88	0.54
8:Ew:327:SER:HB2	8:Ex:215:ILE:HD11	1.90	0.54
8:Ew:367:ASN:C	8:Ew:368:ILE:HD13	2.32	0.54
8:Ez:170:LEU:HD23	8:Ez:171:ASN:N	2.22	0.54
8:Ez:206:TYR:CE2	8:Ez:209:LEU:HB2	2.41	0.54
8:Fa:230:PHE:HA	8:Fa:235:TYR:CD2	2.43	0.54
9:Fb:66:SER:O	9:Fb:69:LEU:HD12	2.08	0.54
9:Fd:144:GLU:HA	9:Fd:147:LEU:HG	1.89	0.54
9:Fd:378:PHE:HB3	9:Fd:414:PHE:CD2	2.41	0.54
9:Fd:670:ILE:HD12	9:Fd:696:TYR:CD2	2.43	0.54
9:Ff:129:MET:O	9:Ff:133:VAL:HG13	2.07	0.54
9:Ff:185:LEU:HA	9:Ff:188:GLN:HE21	1.71	0.54
9:Ff:811:ARG:HH21	9:Ff:937:PRO:HB2	1.72	0.54
5:Ak:219:ARG:HH21	5:Ak:231:THR:HG23	1.72	0.54
6:Cn:115:MET:SD	7:Em:802:LEU:HD13	2.47	0.54
6:Ct:107:ILE:HG13	6:Ct:110:LYS:HZ1	1.72	0.54
6:Cz:219:LYS:HD2	6:Cz:222:ASN:OD1	2.07	0.54
6:Df:220:LEU:HD12	6:Dl:138:GLU:OE2	2.08	0.54
7:Ek:799:SER:O	7:Ek:803:THR:HG23	2.08	0.54
7:Eq:802:LEU:O	7:Eq:806:THR:HG23	2.07	0.54
8:Ew:424:TYR:HE2	8:Ex:380:THR:HA	1.73	0.54
8:Ex:327:SER:HB2	8:Ey:211:MET:HE1	1.90	0.54
8:Ex:426:MET:HA	8:Ex:429:ASP:OD1	2.08	0.54
9:Fb:936:LEU:O	9:Fb:940:VAL:HG13	2.08	0.54
9:Fd:447:LYS:HD3	9:Fd:447:LYS:N	2.21	0.54
9:Fe:534:ILE:HG22	9:Fe:568:TYR:CE1	2.42	0.54
3:Ai:11:ALA:HB1	3:Ai:14:TYR:HE2	1.73	0.54
6:Ar:112:PHE:O	6:Ar:115:MET:HG2	2.07	0.54
2:Cv:4:MET:HG2	5:Cy:250:LEU:HD12	1.90	0.54
2:Dh:2:VAL:HG22	3:Di:1:ARG:HE	1.72	0.54
7:Ei:789:LYS:HE2	9:Fd:267:ASP:H	1.73	0.54
8:Ew:67:GLN:HA	8:Ew:413:LYS:NZ	2.23	0.54
8:Ew:427:TYR:CD2	8:Ex:379:ALA:HB2	2.43	0.54
8:Ey:236:ASN:O	8:Ey:240:ILE:HG12	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Fa:218:LEU:HD23	8:Fa:218:LEU:H	1.72	0.54
9:Fb:905:TRP:HA	9:Fb:908:VAL:HG22	1.90	0.54
9:Fc:345:THR:O	9:Fc:348:GLN:HG3	2.08	0.54
9:Fc:652:ILE:O	9:Fc:656:VAL:HG23	2.07	0.54
9:Fd:370:PHE:HE2	9:Fd:565:SER:HB3	1.73	0.54
9:Fe:49:LEU:HD22	9:Fe:50:HIS:H	1.72	0.54
9:Fe:342:THR:HG23	9:Fe:343:LEU:HD23	1.90	0.54
9:Fe:605:MET:H	9:Fe:605:MET:CE	2.21	0.54
6:Ax:115:MET:HE1	7:Ef:802:LEU:N	2.23	0.54
5:Dk:211:TYR:CD2	5:Dk:265:SER:HA	2.43	0.54
6:Dx:208:LYS:HB3	7:Ev:824:THR:HG23	1.88	0.54
6:Ed:115:MET:HA	6:Ed:118:ASN:OD1	2.07	0.54
8:Ew:415:ILE:HG22	8:Ew:419:LEU:HD21	1.90	0.54
8:Ez:268:THR:HG22	8:Ez:270:LYS:HZ1	1.72	0.54
9:Fb:56:ILE:H	9:Fb:56:ILE:HD12	1.73	0.54
9:Fb:378:PHE:HB3	9:Fb:414:PHE:CE1	2.43	0.54
9:Fb:800:PHE:HA	9:Fb:803:MET:SD	2.48	0.54
9:Fd:33:LEU:HA	9:Fd:36:VAL:HB	1.90	0.54
9:Fd:290:LEU:HD21	9:Fd:329:ARG:HD3	1.88	0.54
9:Fd:595:ASN:HB3	9:Fd:597:LYS:HE3	1.88	0.54
9:Fe:143:TRP:O	9:Fe:147:LEU:HG	2.07	0.54
9:Fe:179:LYS:HG2	9:Fe:492:ASP:HA	1.90	0.54
9:Fe:939:LYS:HA	9:Fe:942:ARG:HB2	1.90	0.54
9:Ff:608:GLN:HG3	9:Ff:633:TYR:HE2	1.72	0.54
2:Ab:3:SER:CB	6:Ar:128:VAL:HG21	2.38	0.54
6:Bd:226:LEU:HB3	6:Bd:241:LEU:HD21	1.89	0.54
3:Bm:11:ALA:HB1	3:Bm:14:TYR:CE2	2.41	0.54
6:Ch:115:MET:HE1	7:El:801:MET:CG	2.37	0.54
6:Cz:178:SER:HB3	6:Cz:251:ARG:HD3	1.90	0.54
6:Dx:193:ALA:HB1	7:Ev:820:TYR:HE1	1.73	0.54
7:Eh:782:ASN:HA	7:Eh:785:LEU:HD12	1.90	0.54
7:Em:782:ASN:HA	7:Em:785:LEU:HD23	1.90	0.54
7:Eo:799:SER:HA	7:Eo:802:LEU:HD23	1.88	0.54
8:Ex:211:MET:O	8:Ex:215:ILE:HD12	2.08	0.54
8:Ex:301:LEU:CG	8:Ex:326:LEU:HD21	2.32	0.54
8:Ez:180:ASN:HD22	8:Ez:286:GLN:HE21	1.54	0.54
8:Ez:433:GLN:HA	8:Ez:436:ILE:CG1	2.29	0.54
8:Fa:81:ALA:HB2	8:Fa:378:MET:HE2	1.90	0.54
9:Fb:202:ARG:HD2	9:Fb:225:PHE:CE2	2.43	0.54
9:Fb:418:GLU:CD	9:Fb:418:GLU:H	2.15	0.54
9:Fb:500:GLN:HE21	9:Fb:503:LYS:HE2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fc:768:TRP:O	9:Fc:772:VAL:HG23	2.07	0.54
9:Fd:377:GLN:OE1	9:Fd:402:VAL:HG12	2.07	0.54
9:Fd:465:GLY:HA2	9:Fd:819:TYR:CZ	2.43	0.54
9:Fe:530:ILE:O	9:Fe:534:ILE:HG13	2.07	0.54
9:Ff:219:THR:HG22	9:Ff:222:MET:HE3	1.89	0.54
6:Bd:114:ASP:O	6:Bd:117:ARG:HB3	2.08	0.53
6:Ch:218:THR:O	7:En:815:VAL:HG21	2.08	0.53
6:Df:238:MET:HG3	6:Dl:250:TYR:CD1	2.42	0.53
3:Du:2:VAL:HG22	3:Du:8:VAL:HG22	1.90	0.53
2:Dz:2:VAL:HA	3:Ea:1:ARG:HE	1.73	0.53
7:Eo:799:SER:HA	7:Eo:802:LEU:CD2	2.37	0.53
8:Ew:252:LEU:HD11	8:Ew:373:LEU:HA	1.91	0.53
8:Ex:208:ASN:O	8:Ex:212:GLN:HG2	2.08	0.53
8:Ey:43:LEU:HD21	8:Ez:39:LEU:HD13	1.89	0.53
8:Ez:346:ASN:O	8:Ez:350:ILE:HG13	2.08	0.53
9:Fc:718:PRO:HG3	9:Fd:720:PHE:HE1	1.73	0.53
9:Fc:800:PHE:O	9:Fc:804:ILE:HD12	2.08	0.53
9:Fd:528:ILE:HA	9:Fd:531:GLN:HG3	1.90	0.53
9:Fe:766:PHE:O	9:Fe:769:LEU:HG	2.08	0.53
9:Ff:336:ILE:HA	9:Ff:339:MET:HG2	1.91	0.53
6:Af:129:LYS:CD	3:Du:2:VAL:HG21	2.39	0.53
4:Bb:5:ASP:HA	5:Bc:251:GLN:HG2	1.90	0.53
6:Df:111:ALA:HB3	7:Ep:797:ARG:NH2	2.24	0.53
6:Ed:125:GLU:O	6:Ed:129:LYS:HG2	2.08	0.53
7:Eu:810:GLN:HA	7:Eu:813:LYS:HG3	1.91	0.53
8:Ew:411:VAL:O	8:Ew:415:ILE:HG13	2.08	0.53
8:Ex:35:ASN:O	8:Ex:39:LEU:HD22	2.08	0.53
8:Ex:142:ILE:HD13	8:Ex:281:ARG:HD3	1.90	0.53
8:Ex:194:GLU:HB2	8:Ex:196:LYS:HD3	1.89	0.53
8:Ez:174:VAL:HG13	8:Ez:344:VAL:HG23	1.90	0.53
8:Fa:424:TYR:O	8:Fa:427:TYR:HB3	2.07	0.53
9:Fb:469:PHE:O	9:Fb:473:LYS:HG2	2.08	0.53
9:Fb:664:LEU:HD21	9:Fb:738:TRP:CE2	2.43	0.53
9:Fc:146:ALA:O	9:Fc:150:LEU:HD22	2.08	0.53
9:Fc:673:VAL:HA	9:Fc:676:GLN:HG3	1.90	0.53
9:Fd:334:ILE:O	9:Fd:338:GLN:HG2	2.06	0.53
9:Fd:617:ILE:HB	9:Fd:620:PHE:HB3	1.89	0.53
9:Fd:617:ILE:HD13	9:Fd:620:PHE:CD2	2.44	0.53
9:Fe:132:ILE:HG21	9:Fe:772:VAL:HG23	1.90	0.53
9:Ff:930:PHE:O	9:Ff:933:ILE:HG22	2.07	0.53
5:Ae:207:ARG:HH12	5:Ae:209:ILE:HA	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ai:11:ALA:HB1	3:Ai:14:TYR:CE2	2.44	0.53
6:Ar:134:TYR:HE1	7:Ef:812:TRP:HB2	1.74	0.53
1:Bq:3:ASP:HA	1:Bq:6:LEU:HG	1.89	0.53
3:By:1:ARG:HG2	3:By:2:VAL:N	2.22	0.53
6:Cb:194:TYR:CD2	6:Cb:213:LEU:HD21	2.43	0.53
5:Cg:218:GLY:HA3	6:Cn:148:PRO:HD3	1.89	0.53
6:Cn:199:PRO:HG3	7:Ep:819:VAL:HG13	1.89	0.53
1:Co:12:HIS:NE2	3:Cq:9:TYR:HB2	2.23	0.53
6:Cz:128:VAL:HA	6:Cz:131:LYS:HG2	1.90	0.53
6:Cz:225:ASN:HB2	6:Cz:238:MET:CE	2.37	0.53
5:De:243:MET:HE2	5:De:243:MET:HA	1.90	0.53
6:Dl:179:LEU:HD13	6:Dl:252:VAL:HB	1.90	0.53
7:Eq:807:GLN:O	7:Eq:810:GLN:HG2	2.08	0.53
7:Eu:779:GLN:O	7:Eu:783:GLU:HG3	2.08	0.53
8:Ew:172:ASP:HB3	8:Ew:175:SER:OG	2.08	0.53
8:Ez:104:ASP:HA	8:Ez:109:ASN:ND2	2.23	0.53
8:Ez:418:LEU:HD12	8:Ez:419:LEU:H	1.73	0.53
9:Fc:708:LEU:O	9:Fc:713:VAL:HG23	2.07	0.53
9:Fc:937:PRO:O	9:Fc:940:VAL:HB	2.08	0.53
9:Ff:644:PHE:HB2	9:Ff:720:PHE:CE1	2.43	0.53
9:Ff:833:LEU:HD12	9:Ff:837:PHE:HB3	1.89	0.53
2:Ab:4:MET:HE1	5:Ae:250:LEU:H	1.74	0.53
6:Bj:208:LYS:HB3	7:Ek:823:GLY:HA2	1.90	0.53
5:Cm:219:ARG:H	6:Ct:148:PRO:HD2	1.74	0.53
5:Cm:253:ARG:C	5:Cm:254:ILE:HD13	2.34	0.53
6:Cn:130:LEU:HG	7:En:812:TRP:CH2	2.44	0.53
5:Dk:213:GLN:NE2	6:Dl:168:VAL:HG21	2.23	0.53
6:Dl:200:SER:HB3	7:Et:816:GLU:HG2	1.91	0.53
7:Eq:809:VAL:HA	7:Eq:812:TRP:CD1	2.38	0.53
8:Ey:410:THR:O	8:Ey:414:GLU:HG3	2.08	0.53
8:Ez:112:ILE:HD12	8:Ez:112:ILE:H	1.72	0.53
9:Fc:718:PRO:HG3	9:Fd:720:PHE:CE1	2.44	0.53
9:Fd:507:LYS:HZ1	9:Fe:630:ASP:HB3	1.73	0.53
9:Fd:644:PHE:HB2	9:Fd:720:PHE:HE2	1.73	0.53
9:Fe:434:LEU:HA	9:Fe:437:ILE:HG12	1.90	0.53
9:Ff:247:THR:HG22	9:Ff:256:PRO:HD2	1.89	0.53
9:Ff:370:PHE:HB2	9:Ff:410:THR:HG21	1.91	0.53
5:Ca:253:ARG:HB3	5:Ca:253:ARG:NH1	2.23	0.53
6:Dl:131:LYS:O	6:Dl:135:GLU:HG2	2.08	0.53
6:Dl:158:VAL:HG13	6:Dl:167:PRO:HG2	1.90	0.53
6:Dl:176:VAL:HG13	6:Dl:214:MET:HG2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ek:794:ILE:HA	7:Ek:797:ARG:CZ	2.38	0.53
8:Ey:381:ARG:HH12	8:Ey:382:ARG:HH11	1.55	0.53
8:Ez:211:MET:O	8:Ez:215:ILE:HG12	2.09	0.53
9:Fb:464:ALA:HA	9:Fb:467:TYR:HD2	1.74	0.53
9:Fb:595:ASN:HB3	9:Fb:597:LYS:HE2	1.90	0.53
9:Fe:748:VAL:O	9:Fe:753:ILE:HG12	2.09	0.53
9:Fe:755:VAL:O	9:Fe:758:TYR:HB3	2.09	0.53
9:Ff:685:PRO:O	9:Ff:689:LEU:HG	2.08	0.53
2:Ab:5:ILE:HD12	6:Al:139:TYR:CD2	2.38	0.53
6:Af:144:THR:HG21	6:Af:148:PRO:HG3	1.91	0.53
6:Af:145:PRO:HD3	6:Al:131:LYS:HE2	1.91	0.53
6:Ar:171:LEU:HD13	6:Ar:202:PHE:HZ	1.73	0.53
5:Bo:261:VAL:HG12	5:Bo:263:LYS:NZ	2.23	0.53
2:Cd:2:VAL:HG22	3:Ce:1:ARG:NE	2.23	0.53
6:Ch:201:SER:HA	6:Ch:219:LYS:NZ	2.24	0.53
5:Dk:211:TYR:CE2	5:Dk:265:SER:HA	2.44	0.53
6:Dr:223:TYR:HB2	6:Dr:242:ILE:HA	1.90	0.53
7:Ev:802:LEU:O	7:Ev:806:THR:HG23	2.08	0.53
8:Ew:218:LEU:HD12	8:Ew:219:PRO:HD2	1.91	0.53
8:Ez:444:LEU:HD13	8:Ez:448:LEU:HD23	1.91	0.53
9:Fc:615:VAL:HG22	9:Fc:622:PHE:O	2.09	0.53
9:Fe:73:GLY:C	9:Fe:77:MET:HE2	2.33	0.53
6:Ar:206:TRP:HB2	6:Ar:213:LEU:HD23	1.90	0.53
6:Ar:214:MET:HE2	7:Eg:820:TYR:OH	2.09	0.53
6:Ar:230:LEU:HB2	6:Ar:233:LEU:HD23	1.91	0.53
6:Bj:150:LYS:HG2	6:Bj:152:THR:HG23	1.90	0.53
5:Dk:207:ARG:CZ	5:Dk:208:ILE:H	2.21	0.53
6:Dr:225:ASN:HD21	6:Dx:176:VAL:N	2.06	0.53
6:Dx:182:LEU:HD12	6:Dx:183:ASP:N	2.24	0.53
6:Ed:115:MET:HG2	7:Et:801:MET:HE3	1.90	0.53
7:Ej:789:LYS:O	7:Ej:793:GLU:HG2	2.08	0.53
8:Ew:324:ALA:HB2	8:Ex:208:ASN:ND2	2.22	0.53
8:Ex:36:THR:HA	8:Ex:39:LEU:HD23	1.91	0.53
8:Ey:62:ASN:HA	8:Ez:48:LYS:NZ	2.24	0.53
8:Ez:411:VAL:HA	8:Ez:414:GLU:HG2	1.91	0.53
9:Fb:369:ASP:HB3	9:Fb:375:LYS:HD2	1.91	0.53
9:Fc:381:PRO:HD2	9:Fc:573:ASN:ND2	2.23	0.53
9:Fc:698:ASN:HA	9:Fd:905:TRP:CZ3	2.44	0.53
9:Fd:939:LYS:HB3	9:Fd:942:ARG:NH2	2.22	0.53
9:Ff:758:TYR:O	9:Ff:762:THR:HG23	2.09	0.53
9:Ff:924:ILE:HA	9:Ff:927:GLN:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Al:121:PRO:HB3	7:Ee:797:ARG:HH21	1.72	0.53
6:Al:238:MET:N	6:Ar:251:ARG:HH12	2.06	0.53
6:Ar:112:PHE:HA	6:Ar:115:MET:SD	2.49	0.53
6:Ar:225:ASN:HD21	6:Ax:176:VAL:N	2.07	0.53
1:Bk:16:ALA:HB3	2:Br:9:ARG:HG2	1.90	0.53
5:Bo:253:ARG:C	5:Bo:254:ILE:HD13	2.34	0.53
6:Cn:158:VAL:HB	6:Cn:256:VAL:HA	1.91	0.53
6:Df:108:ASP:HA	7:Ep:797:ARG:HH22	1.74	0.53
1:Dm:6:LEU:HB3	5:Dq:246:LEU:HD21	1.91	0.53
6:Ed:129:LYS:HA	6:Ed:132:GLN:HG3	1.90	0.53
7:Et:785:LEU:HD23	9:Ff:241:LYS:HG2	1.91	0.53
8:Ew:301:LEU:HD13	8:Ew:326:LEU:CD2	2.39	0.53
8:Ew:317:VAL:HG12	8:Ex:198:TRP:CD1	2.43	0.53
8:Ey:342:VAL:HG21	8:Ey:442:ILE:HG13	1.91	0.53
8:Ez:420:ALA:O	8:Ez:424:TYR:HD1	1.92	0.53
8:Fa:421:GLU:O	8:Fa:425:GLN:CB	2.52	0.53
9:Fb:339:MET:O	9:Fb:343:LEU:HG	2.08	0.53
9:Fb:501:LEU:H	9:Fb:501:LEU:HD12	1.73	0.53
9:Fb:648:PHE:O	9:Fb:652:ILE:HG13	2.09	0.53
9:Fc:197:GLN:HG3	9:Fc:530:ILE:HD11	1.90	0.53
9:Ff:693:GLY:HA2	9:Ff:696:TYR:CD2	2.43	0.53
5:Ae:246:LEU:CD1	5:Ae:255:LEU:HB2	2.39	0.53
1:Be:4:ALA:HB3	2:Bf:9:ARG:NH1	2.24	0.53
6:Bp:238:MET:HE3	6:Bv:251:ARG:HG3	1.90	0.53
5:Bu:219:ARG:HH21	5:Bu:231:THR:HG23	1.72	0.53
4:Bz:5:ASP:HA	5:Ca:251:GLN:HG2	1.91	0.53
6:Cb:166:PRO:HD2	6:Ch:151:PRO:HB2	1.91	0.53
6:Dl:141:LYS:HD3	6:Dl:141:LYS:O	2.09	0.53
7:Eg:810:GLN:HA	7:Eg:813:LYS:NZ	2.24	0.53
8:Ew:142:ILE:HA	8:Ew:210:VAL:HG23	1.90	0.53
8:Ew:234:LYS:HA	8:Ew:237:GLN:NE2	2.24	0.53
8:Ew:242:GLN:HE22	8:Ew:269:ALA:H	1.55	0.53
8:Ew:428:LEU:CB	8:Fa:430:ARG:HH22	1.99	0.53
8:Ez:254:MET:HE2	8:Ez:254:MET:N	2.24	0.53
8:Fa:210:VAL:O	8:Fa:214:VAL:HG23	2.09	0.53
8:Fa:444:LEU:HA	8:Fa:447:ASN:ND2	2.24	0.53
9:Fb:455:GLU:O	9:Fb:459:LYS:HG2	2.09	0.53
9:Fc:475:ASN:HB3	9:Fc:684:ASN:HD21	1.74	0.53
9:Fd:57:MET:HB3	9:Fd:61:PHE:CE1	2.44	0.53
9:Fe:65:ASN:HD21	9:Fe:116:PRO:HD3	1.73	0.53
9:Fe:78:TYR:HA	9:Fe:81:MET:HE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fe:514:SER:O	9:Fe:518:THR:HG23	2.09	0.53
9:Fe:524:SER:O	9:Fe:528:ILE:HG22	2.09	0.53
9:Fe:527:LEU:H	9:Fe:527:LEU:HD12	1.74	0.53
9:Ff:810:LEU:HB3	9:Ff:814:LEU:HD21	1.91	0.53
9:Ff:917:ILE:O	9:Ff:921:MET:HG2	2.09	0.53
6:Ar:205:GLN:HG3	7:Eg:818:GLN:HE21	1.74	0.53
6:Ax:233:LEU:HD11	6:Ax:235:THR:HB	1.91	0.53
6:Cn:133:ILE:HD13	6:Ct:116:THR:HG22	1.89	0.53
6:Df:108:ASP:HA	7:Ep:797:ARG:NH2	2.24	0.53
6:Df:208:LYS:HB2	7:Es:824:THR:HG23	1.91	0.53
6:Df:238:MET:HG3	6:Dl:250:TYR:HD1	1.74	0.53
6:Dl:122:LEU:HD21	7:Er:801:MET:HB2	1.90	0.53
6:Dr:230:LEU:HB2	6:Dr:233:LEU:HD23	1.91	0.53
7:Ef:816:GLU:H	7:Ef:816:GLU:CD	2.17	0.53
7:Ev:809:VAL:HG13	7:Ev:810:GLN:HE21	1.73	0.53
8:Ex:77:VAL:HG12	8:Ex:378:MET:CE	2.38	0.53
8:Ex:235:TYR:O	8:Ex:238:PRO:HD2	2.09	0.53
8:Ey:186:ASP:HA	8:Ey:207:GLN:OE1	2.09	0.53
8:Ez:335:VAL:O	8:Ez:339:GLN:HG3	2.09	0.53
8:Fa:136:ILE:HD12	8:Fa:277:LEU:HD12	1.91	0.53
9:Fd:623:CYS:HB3	9:Fd:626:ARG:HB3	1.90	0.53
9:Ff:34:SER:HA	9:Ff:462:ILE:HD13	1.91	0.53
9:Ff:35:VAL:HA	9:Ff:38:LEU:HD12	1.90	0.53
9:Ff:432:PRO:O	9:Ff:436:LEU:HD22	2.09	0.53
3:Ao:1:ARG:HA	6:Bd:125:GLU:OE1	2.08	0.52
5:Bi:253:ARG:C	5:Bi:254:ILE:HD13	2.34	0.52
5:Ca:219:ARG:H	6:Ch:148:PRO:HD2	1.73	0.52
6:Cn:115:MET:HA	6:Cn:118:ASN:OD1	2.09	0.52
6:Dl:115:MET:HA	6:Dl:118:ASN:OD1	2.10	0.52
7:Em:795:GLN:HA	7:Em:798:THR:HB	1.91	0.52
8:Ey:182:LEU:HD21	8:Ez:240:ILE:HD13	1.90	0.52
8:Ey:448:LEU:HD13	8:Ez:340:THR:HG22	1.91	0.52
8:Fa:449:LYS:HD2	8:Fa:449:LYS:C	2.35	0.52
9:Fc:238:ASN:O	9:Fc:242:LYS:HG2	2.09	0.52
9:Fe:419:PHE:O	9:Fe:423:ILE:HG12	2.08	0.52
9:Ff:66:SER:O	9:Ff:69:LEU:HD12	2.09	0.52
6:Af:205:GLN:HB2	6:Af:214:MET:SD	2.50	0.52
6:Al:117:ARG:HH12	7:Ee:797:ARG:CZ	2.23	0.52
6:Bj:199:PRO:HG3	7:Ek:819:VAL:HG12	1.91	0.52
6:Bp:106:VAL:HG22	6:Bp:110:LYS:HE3	1.91	0.52
5:Bu:213:GLN:NE2	5:Bu:223:ILE:HG23	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ch:158:VAL:HB	6:Ch:256:VAL:HA	1.91	0.52
1:Ci:11:TYR:CD2	3:Ck:9:TYR:HB3	2.44	0.52
6:Cn:115:MET:CE	7:Em:798:THR:HA	2.38	0.52
6:Df:227:ALA:HB2	6:Df:238:MET:HE1	1.92	0.52
6:Df:229:ARG:NH1	6:Df:229:ARG:HA	2.25	0.52
7:Er:794:ILE:HD12	7:Er:794:ILE:H	1.73	0.52
8:Ew:384:PHE:HB3	8:Fa:82:TYR:CD2	2.44	0.52
8:Ex:55:THR:HA	8:Ey:42:TYR:CE1	2.40	0.52
8:Ey:78:GLN:HB2	8:Ez:383:LEU:CD1	2.39	0.52
8:Fa:207:GLN:HA	8:Fa:210:VAL:HG12	1.91	0.52
9:Fb:64:PHE:CZ	9:Fb:780:PRO:HG3	2.44	0.52
9:Fc:38:LEU:O	9:Fc:42:PHE:HD1	1.92	0.52
9:Fc:129:MET:O	9:Fc:133:VAL:HG12	2.09	0.52
9:Fc:179:LYS:HA	9:Fc:550:LEU:HD12	1.91	0.52
9:Fc:813:SER:O	9:Fc:817:ILE:HG13	2.09	0.52
9:Fe:72:GLY:O	9:Fe:76:ILE:HG12	2.10	0.52
9:Fe:176:GLY:HA3	9:Fe:492:ASP:HB2	1.91	0.52
9:Ff:289:ALA:HA	9:Ff:312:SER:HB2	1.90	0.52
6:Ax:123:ASN:HB2	6:Ax:126:GLN:HG3	1.92	0.52
6:Bd:238:MET:HB3	6:Bj:250:TYR:CD1	2.45	0.52
6:Bj:129:LYS:O	6:Bj:133:ILE:HG12	2.09	0.52
6:Bp:151:PRO:HA	6:Bp:248:VAL:HG13	1.91	0.52
6:Ct:107:ILE:H	6:Ct:107:ILE:HD12	1.73	0.52
6:Dx:221:TYR:CD1	6:Ed:139:TYR:HD1	2.27	0.52
7:Ej:790:TYR:O	7:Ej:794:ILE:HG13	2.09	0.52
7:Ek:794:ILE:HA	7:Ek:797:ARG:NH1	2.25	0.52
7:Es:798:THR:O	7:Es:802:LEU:HG	2.09	0.52
8:Ex:302:TRP:HD1	8:Ex:303:ASN:OD1	1.92	0.52
8:Ez:263:GLN:H	8:Ez:268:THR:HG21	1.75	0.52
8:Ez:426:MET:CE	8:Fa:425:GLN:HG2	2.35	0.52
8:Fa:295:LEU:O	8:Fa:299:SER:CB	2.57	0.52
9:Fc:302:VAL:HB	9:Fc:320:ILE:HG23	1.91	0.52
9:Fc:370:PHE:HE2	9:Fc:565:SER:HB3	1.74	0.52
9:Fd:339:MET:HA	9:Fd:342:THR:HG22	1.90	0.52
9:Fe:327:THR:HA	9:Fe:330:LEU:HD23	1.90	0.52
9:Fe:627:MET:HE2	9:Fe:627:MET:C	2.35	0.52
9:Fe:923:LEU:O	9:Fe:926:VAL:HB	2.10	0.52
6:Af:131:LYS:HG2	6:Ed:145:PRO:HG3	1.91	0.52
2:Ah:4:MET:HE1	5:Ak:248:ASP:HA	1.90	0.52
5:Aq:233:ARG:NH1	5:Aq:236:SER:HB2	2.24	0.52
5:Aw:263:LYS:HD2	5:Aw:264:PHE:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ax:185:THR:HG21	6:Ax:263:ALA:HA	1.92	0.52
2:Az:6:GLY:HA2	6:Bp:125:GLU:HB3	1.91	0.52
5:Bi:219:ARG:HA	5:Bi:232:VAL:O	2.09	0.52
6:Bj:225:ASN:ND2	6:Bp:176:VAL:HG22	2.25	0.52
6:Bp:106:VAL:HA	6:Bp:109:LYS:HG2	1.91	0.52
6:Cz:182:LEU:HD11	6:Cz:186:GLY:HA2	1.91	0.52
5:Dk:219:ARG:HD3	6:Dr:148:PRO:O	2.09	0.52
5:Dw:222:LEU:HD21	5:Dw:230:LEU:HD23	1.90	0.52
6:Dx:187:ALA:HB1	6:Dx:262:ASN:HB2	1.91	0.52
7:Ef:772:GLU:HA	7:Ef:775:GLN:CD	2.35	0.52
8:Ew:188:SER:HA	8:Ew:191:MET:HB2	1.89	0.52
8:Ew:230:PHE:HE2	8:Fa:298:TYR:CZ	2.28	0.52
8:Ew:428:LEU:HA	8:Ew:431:GLN:HG2	1.90	0.52
9:Fb:109:PHE:HB2	9:Fb:786:VAL:HG11	1.90	0.52
9:Fb:149:TYR:CB	9:Ff:59:ASN:HD22	2.23	0.52
9:Fb:669:ASP:HA	9:Fb:672:ILE:HG12	1.90	0.52
9:Fb:798:GLY:O	9:Fb:802:ILE:HG12	2.08	0.52
9:Fc:804:ILE:O	9:Fc:808:VAL:HG22	2.09	0.52
9:Fd:232:ASP:OD2	9:Fd:234:ILE:HG13	2.10	0.52
9:Fd:680:GLN:OE1	9:Fd:683:ILE:HG12	2.09	0.52
7:Fi:26:ALA:O	7:Fi:30:ILE:HG12	2.08	0.52
6:Al:171:LEU:HG	6:Al:217:ALA:HB2	1.91	0.52
6:Bj:173:GLN:CB	6:Bj:220:LEU:HD23	2.39	0.52
5:Bo:254:ILE:HB	5:Bo:262:ILE:HB	1.92	0.52
6:Df:238:MET:HB3	6:Dl:250:TYR:CE1	2.45	0.52
6:Dl:205:GLN:HB2	6:Dl:214:MET:CE	2.39	0.52
6:Dr:170:ARG:HD3	6:Dr:247:ALA:C	2.35	0.52
1:Ds:9:LEU:O	1:Ds:13:LYS:HG2	2.10	0.52
6:Dx:201:SER:HA	6:Dx:219:LYS:HE3	1.92	0.52
8:Ex:170:LEU:H	8:Ex:170:LEU:HD12	1.74	0.52
9:Fb:182:LEU:HD23	9:Fb:571:VAL:HG21	1.92	0.52
9:Fb:323:SER:O	9:Fb:326:GLN:HG3	2.09	0.52
9:Fb:547:GLN:HA	9:Fb:568:TYR:CE1	2.44	0.52
9:Fe:664:LEU:HD22	9:Fe:665:GLN:OE1	2.10	0.52
9:Ff:146:ALA:O	9:Ff:150:LEU:HD22	2.09	0.52
9:Ff:200:ALA:HA	9:Ff:203:ASP:OD1	2.09	0.52
5:Aq:219:ARG:HH12	6:Ax:150:LYS:HG2	1.75	0.52
6:Ax:173:GLN:HG2	6:Ax:220:LEU:HD22	1.91	0.52
6:Bd:107:ILE:HG13	6:Bd:110:LYS:HZ3	1.74	0.52
6:Bd:204:ILE:HD12	6:Bd:214:MET:O	2.09	0.52
6:Cn:230:LEU:HD12	6:Cn:231:ARG:N	2.15	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ed:218:THR:O	7:Ev:815:VAL:HG21	2.10	0.52
8:Ex:429:ASP:O	8:Ex:433:GLN:HG2	2.10	0.52
8:Ey:297:ALA:HA	8:Ey:300:GLU:OE1	2.10	0.52
8:Ey:318:GLN:CD	8:Ey:318:GLN:H	2.15	0.52
8:Ey:440:ASN:O	8:Ey:443:MET:HG3	2.10	0.52
8:Ez:298:TYR:HE1	8:Fa:221:ALA:HB2	1.75	0.52
8:Ez:385:ASP:H	8:Ez:398:GLN:HE22	1.57	0.52
9:Fc:129:MET:N	9:Fc:129:MET:HE2	2.24	0.52
9:Fd:438:ARG:NH1	9:Fd:439:GLN:HG2	2.24	0.52
9:Fd:630:ASP:HA	9:Fd:634:ASN:HB2	1.92	0.52
9:Fd:647:ILE:HG23	9:Fd:651:MET:HE3	1.91	0.52
9:Fe:290:LEU:HD11	9:Fe:437:ILE:HD12	1.91	0.52
9:Fe:635:TYR:O	9:Fe:639:TYR:HB3	2.10	0.52
9:Ff:33:LEU:HB3	9:Ff:462:ILE:HD11	1.91	0.52
6:Al:242:ILE:HD12	6:Al:243:PRO:HD2	1.92	0.52
6:Ar:115:MET:HE1	7:Ee:801:MET:CB	2.36	0.52
6:Ch:242:ILE:HD12	6:Ch:243:PRO:HD2	1.90	0.52
6:Ct:144:THR:OG1	6:Ct:148:PRO:HG3	2.09	0.52
6:Cz:173:GLN:HG2	6:Cz:220:LEU:HA	1.90	0.52
5:De:212:ILE:H	5:De:212:ILE:HD12	1.74	0.52
6:Dx:223:TYR:HB2	6:Dx:242:ILE:HA	1.92	0.52
8:Ew:359:MET:HE1	8:Ew:369:THR:HG22	1.92	0.52
8:Ew:415:ILE:HG23	8:Fa:419:LEU:HD21	1.91	0.52
8:Ex:249:ILE:HD12	8:Ex:250:ALA:N	2.25	0.52
8:Ex:418:LEU:O	8:Ex:422:ILE:HG12	2.10	0.52
8:Ey:249:ILE:HA	8:Ey:354:ARG:HH22	1.75	0.52
8:Fa:212:GLN:HA	8:Fa:215:ILE:HG22	1.91	0.52
9:Fb:650:GLU:OE1	9:Fb:650:GLU:N	2.41	0.52
9:Fc:800:PHE:HA	9:Fc:803:MET:HE2	1.90	0.52
9:Fc:828:VAL:HA	9:Fc:831:TRP:CE3	2.45	0.52
9:Ff:743:VAL:HG22	9:Ff:747:PHE:CE1	2.45	0.52
9:Ff:925:ILE:O	9:Ff:929:ALA:HB2	2.09	0.52
5:Bc:212:ILE:HG13	5:Bc:262:ILE:HG22	1.91	0.52
5:Bo:214:ALA:HB3	5:Bo:221:TRP:HE3	1.75	0.52
6:Cb:204:ILE:HD12	6:Cb:214:MET:O	2.10	0.52
6:Cb:236:PRO:HG2	6:Cb:238:MET:HE1	1.92	0.52
6:Ch:181:PHE:CZ	6:Ch:230:LEU:HG	2.45	0.52
6:Ch:238:MET:HG3	6:Cn:250:TYR:CZ	2.45	0.52
5:Cs:247:ILE:HG12	5:Cs:254:ILE:HG23	1.91	0.52
6:Cz:134:TYR:CE1	7:Ep:812:TRP:HB3	2.44	0.52
6:Dl:149:PRO:HA	6:Dl:246:LYS:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ew:105:LYS:HZ2	8:Ex:368:ILE:H	1.57	0.52
8:Ew:457:PHE:CZ	8:Ex:329:TYR:HB2	2.43	0.52
8:Fa:351:LEU:CD1	8:Fa:355:LEU:HD21	2.39	0.52
9:Fb:345:THR:O	9:Fb:348:GLN:HG3	2.09	0.52
9:Fb:655:ILE:O	9:Fb:659:PHE:HD1	1.93	0.52
9:Fc:34:SER:HA	9:Fc:462:ILE:HD11	1.92	0.52
9:Fc:462:ILE:HG13	9:Fc:463:MET:SD	2.49	0.52
9:Fc:633:TYR:HA	9:Fc:637:PHE:HD1	1.75	0.52
9:Fc:695:MET:HE3	9:Fc:698:ASN:HD21	1.74	0.52
9:Fc:725:PHE:HE2	9:Fd:725:PHE:CE2	2.28	0.52
9:Fd:527:LEU:HA	9:Fd:530:ILE:HD13	1.91	0.52
9:Fe:936:LEU:HA	9:Fe:939:LYS:HE3	1.91	0.52
5:Ae:219:ARG:NH1	5:Ae:233:ARG:HD3	2.25	0.52
6:Al:158:VAL:HB	6:Al:256:VAL:HA	1.92	0.52
6:Ar:225:ASN:HB2	6:Ax:250:TYR:CZ	2.44	0.52
6:Ax:171:LEU:HD11	6:Ax:241:LEU:HB3	1.90	0.52
6:Bj:173:GLN:HB2	6:Bj:220:LEU:HA	1.92	0.52
5:Bo:253:ARG:O	5:Bo:254:ILE:HD13	2.10	0.52
5:Bu:213:GLN:OE1	5:Bu:223:ILE:HG12	2.10	0.52
5:Cm:233:ARG:HH12	5:Cm:236:SER:HB3	1.73	0.52
1:Cu:9:LEU:O	1:Cu:13:LYS:HG2	2.09	0.52
5:Cy:216:ILE:HD11	6:Df:148:PRO:HG2	1.92	0.52
5:De:219:ARG:HG2	6:Dl:148:PRO:HD2	1.91	0.52
6:Dl:191:ILE:HD12	6:Dl:206:TRP:NE1	2.24	0.52
6:Ed:130:LEU:HA	6:Ed:133:ILE:HD12	1.91	0.52
6:Ed:168:VAL:HA	6:Ed:240:THR:O	2.10	0.52
7:Et:797:ARG:HH12	7:Et:801:MET:HB3	1.75	0.52
7:Et:809:VAL:O	7:Et:813:LYS:HG3	2.10	0.52
8:Ew:144:GLN:HB2	8:Ew:179:PHE:CZ	2.45	0.52
8:Ew:252:LEU:HD12	8:Ew:252:LEU:O	2.10	0.52
8:Ew:340:THR:HG22	8:Fa:448:LEU:HD22	1.91	0.52
8:Ew:382:ARG:HB3	8:Ew:399:TRP:CE3	2.44	0.52
8:Ex:195:GLN:NE2	8:Ex:294:LYS:HD2	2.24	0.52
8:Ez:331:ASN:ND2	8:Fa:211:MET:HB2	2.24	0.52
9:Fb:180:GLY:O	9:Fb:184:ILE:HD13	2.09	0.52
9:Fb:760:ILE:HD13	9:Fb:930:PHE:HB3	1.90	0.52
9:Fc:304:VAL:HG21	9:Fc:439:GLN:HE22	1.75	0.52
9:Fc:913:PHE:CZ	9:Fc:917:ILE:HD11	2.45	0.52
9:Fd:127:PHE:O	9:Fd:131:VAL:HG23	2.10	0.52
9:Fd:131:VAL:HG21	9:Fd:805:LEU:HD11	1.92	0.52
6:Af:205:GLN:NE2	6:Af:216:GLN:HE22	2.06	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bd:170:ARG:NH1	6:Bd:247:ALA:HB3	2.25	0.52
6:Bp:189:TRP:CD1	6:Bp:230:LEU:HD12	2.44	0.52
6:Bp:196:LEU:HD12	6:Bp:204:ILE:HD12	1.91	0.52
6:Ch:196:LEU:HD23	6:Ch:199:PRO:HB3	1.92	0.52
6:Cn:106:VAL:HA	6:Cn:109:LYS:NZ	2.25	0.52
6:Cz:130:LEU:HA	6:Cz:133:ILE:HD12	1.92	0.52
7:Er:802:LEU:O	7:Er:806:THR:HG22	2.10	0.52
8:Ew:346:ASN:O	8:Ew:350:ILE:HG12	2.10	0.52
8:Ew:453:PRO:HD3	8:Ex:336:TYR:CD1	2.45	0.52
8:Ex:206:TYR:CE1	8:Ex:208:ASN:HB3	2.44	0.52
8:Ey:437:LEU:HD13	8:Ez:436:ILE:HD13	1.92	0.52
8:Ez:332:ASN:HA	8:Ez:335:VAL:HG22	1.92	0.52
8:Fa:69:PHE:CZ	8:Fa:402:GLN:HB3	2.45	0.52
9:Fb:909:TYR:HA	9:Fb:912:PHE:HD2	1.75	0.52
9:Fc:748:VAL:O	9:Fc:753:ILE:HG12	2.10	0.52
9:Fc:775:ALA:HB2	9:Fc:808:VAL:HG11	1.92	0.52
9:Fd:377:GLN:HG2	9:Fd:379:GLY:H	1.75	0.52
9:Fd:737:ALA:O	9:Fd:741:THR:HG23	2.10	0.52
9:Fe:251:LEU:HD23	9:Fe:325:LEU:HD11	1.92	0.52
9:Fe:704:TRP:CD1	9:Ff:734:LEU:HD22	2.45	0.52
9:Ff:190:CYS:O	9:Ff:194:LEU:HD13	2.10	0.52
9:Ff:530:ILE:O	9:Ff:534:ILE:HG12	2.10	0.52
9:Ff:824:ALA:O	9:Ff:828:VAL:HG23	2.10	0.52
6:Af:109:LYS:HD3	6:Af:109:LYS:N	2.25	0.51
5:Ak:243:MET:HE3	5:Ak:257:SER:HB3	1.92	0.51
5:Aq:221:TRP:CZ3	5:Aq:231:THR:HB	2.45	0.51
6:Ax:137:SER:O	6:Ax:141:LYS:HG3	2.09	0.51
6:Bv:115:MET:HE3	7:Ej:802:LEU:HD13	1.91	0.51
6:Bv:196:LEU:HD21	6:Bv:202:PHE:HB2	1.92	0.51
5:Cy:210:TYR:HB3	5:Cy:222:LEU:HD12	1.90	0.51
6:Dr:172:SER:HB3	6:Dr:248:VAL:CG1	2.39	0.51
6:Ed:132:GLN:HA	6:Ed:135:GLU:HG2	1.93	0.51
8:Ew:85:PHE:HD2	8:Ew:86:LEU:HD12	1.74	0.51
8:Ey:451:ALA:HA	9:Fb:619:PHE:HD2	1.75	0.51
8:Fa:205:MET:HE2	8:Fa:205:MET:HA	1.92	0.51
9:Fb:594:ILE:H	9:Fb:594:ILE:HD12	1.75	0.51
9:Fb:704:TRP:HA	9:Fb:707:LEU:HD12	1.92	0.51
9:Fb:921:MET:O	9:Fb:925:ILE:HD12	2.10	0.51
9:Fc:425:ASP:O	9:Fc:429:ILE:HG13	2.09	0.51
9:Fc:662:ILE:HB	9:Fc:703:LEU:HD21	1.91	0.51
9:Fc:766:PHE:O	9:Fc:770:ILE:HG13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fc:814:LEU:HD23	9:Fc:940:VAL:HG21	1.92	0.51
9:Fd:420:LEU:H	9:Fd:420:LEU:HD12	1.74	0.51
9:Fe:193:GLY:HA2	9:Fe:357:PHE:CE1	2.45	0.51
9:Fe:430:MET:HE2	9:Fe:430:MET:N	2.25	0.51
9:Ff:259:PHE:CE2	9:Ff:286:ASN:HB2	2.43	0.51
9:Ff:656:VAL:O	9:Ff:660:LEU:HG	2.10	0.51
6:Ar:196:LEU:HD23	6:Ar:199:PRO:HB3	1.92	0.51
6:Bd:159:ASN:HD21	6:Bd:164:SER:HB2	1.75	0.51
6:Bd:169:ILE:HG23	6:Bd:241:LEU:HA	1.91	0.51
6:Bd:191:ILE:HD12	6:Bd:206:TRP:CE2	2.45	0.51
6:Ch:196:LEU:HD11	6:Ch:202:PHE:CD2	2.45	0.51
6:Cn:192:ALA:HB3	6:Cn:229:ARG:HG3	1.92	0.51
5:Cy:230:LEU:HD12	5:Cy:231:THR:N	2.22	0.51
5:Dk:219:ARG:NH1	5:Dk:233:ARG:HB3	2.24	0.51
6:Dr:189:TRP:CE2	6:Dr:260:GLY:HA2	2.45	0.51
5:Dw:213:GLN:HG2	5:Dw:221:TRP:O	2.11	0.51
6:Dx:189:TRP:CZ2	6:Dx:233:LEU:HD12	2.45	0.51
6:Ed:172:SER:HB3	6:Ed:175:PHE:HB2	1.92	0.51
8:Ew:424:TYR:O	8:Ew:427:TYR:HB3	2.10	0.51
8:Ex:249:ILE:HA	8:Ex:354:ARG:HH12	1.74	0.51
8:Ex:426:MET:C	8:Ex:426:MET:HE2	2.36	0.51
8:Ez:253:LEU:HD22	8:Ez:373:LEU:HD13	1.93	0.51
8:Ez:341:SER:O	8:Ez:345:SER:HB3	2.10	0.51
9:Fc:548:PRO:HD3	9:Fc:568:TYR:HD2	1.75	0.51
9:Fc:693:GLY:O	9:Fc:697:ILE:HG23	2.10	0.51
9:Fc:725:PHE:CE1	9:Fd:729:MET:HG2	2.45	0.51
9:Fd:500:GLN:O	9:Fd:503:LYS:HG2	2.11	0.51
9:Fe:531:GLN:HA	9:Fe:534:ILE:HD12	1.91	0.51
9:Ff:124:MET:HA	9:Ff:127:PHE:CD2	2.45	0.51
7:Fg:35:GLY:O	7:Fg:39:ILE:HG12	2.09	0.51
6:Ax:129:LYS:HD2	6:Bd:112:PHE:CE1	2.46	0.51
6:Ax:229:ARG:NH1	6:Ax:229:ARG:HA	2.26	0.51
6:Bv:134:TYR:O	6:Bv:138:GLU:HG3	2.09	0.51
5:Ca:232:VAL:HG21	5:Ca:244:VAL:HG21	1.92	0.51
6:Dr:204:ILE:HA	6:Dr:214:MET:O	2.10	0.51
3:Du:13:LYS:HD2	3:Du:13:LYS:O	2.11	0.51
7:Eg:807:GLN:HA	7:Eg:810:GLN:CG	2.36	0.51
8:Ey:228:PRO:HB3	8:Ey:234:LYS:HE2	1.91	0.51
8:Ey:329:TYR:CZ	8:Ey:333:LEU:HD21	2.44	0.51
8:Ez:179:PHE:HZ	8:Fa:233:TYR:HA	1.75	0.51
8:Fa:343:GLY:O	8:Fa:347:LEU:HG	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fb:74:ILE:HA	9:Fb:77:MET:HE3	1.92	0.51
9:Fb:378:PHE:HB3	9:Fb:414:PHE:CD1	2.46	0.51
9:Fb:701:GLY:O	9:Fb:705:LEU:HD22	2.11	0.51
9:Fc:738:TRP:HD1	9:Fc:912:PHE:CE2	2.28	0.51
9:Fd:419:PHE:O	9:Fd:423:ILE:HG12	2.10	0.51
9:Fe:213:PRO:O	9:Fe:218:PRO:HB3	2.10	0.51
9:Fe:667:MET:O	9:Fe:670:ILE:HG13	2.10	0.51
9:Fe:708:LEU:HD13	9:Ff:730:MET:SD	2.50	0.51
9:Ff:685:PRO:HG3	9:Ff:831:TRP:NE1	2.22	0.51
9:Ff:921:MET:HE3	9:Ff:924:ILE:HD11	1.92	0.51
5:Aw:212:ILE:HB	5:Aw:264:PHE:CE1	2.44	0.51
6:Ax:115:MET:HB3	6:Ax:119:LEU:HD23	1.91	0.51
5:Bc:213:GLN:HE21	5:Bc:221:TRP:HB3	1.76	0.51
6:Bd:121:PRO:HB2	7:Eh:801:MET:SD	2.50	0.51
1:Bk:16:ALA:HB3	2:Br:9:ARG:HE	1.75	0.51
6:Cb:189:TRP:CD1	6:Cb:230:LEU:HD12	2.45	0.51
6:Ch:132:GLN:HA	6:Ch:135:GLU:OE2	2.11	0.51
6:Cz:149:PRO:HB2	6:Cz:248:VAL:HG12	1.91	0.51
6:Dr:229:ARG:HD3	6:Dr:230:LEU:O	2.11	0.51
6:Dx:150:LYS:HG3	6:Dx:152:THR:HG23	1.91	0.51
7:Es:797:ARG:HA	7:Es:800:ASP:OD2	2.10	0.51
8:Ew:452:GLN:HE22	8:Ex:290:PRO:HG3	1.75	0.51
8:Ex:126:SER:HB2	8:Ex:171:ASN:HA	1.92	0.51
9:Fb:78:TYR:O	9:Fb:82:VAL:HG23	2.11	0.51
9:Fb:243:GLN:O	9:Fb:247:THR:HG22	2.11	0.51
9:Fc:735:LEU:HD23	9:Fc:738:TRP:HZ3	1.74	0.51
9:Fc:819:TYR:CE1	9:Fc:823:ILE:HD11	2.45	0.51
9:Ff:73:GLY:HA2	9:Ff:76:ILE:HG12	1.93	0.51
9:Ff:122:CYS:HB2	9:Ff:125:GLN:HG2	1.91	0.51
9:Ff:345:THR:O	9:Ff:348:GLN:HG3	2.11	0.51
9:Ff:419:PHE:O	9:Ff:423:ILE:HG12	2.11	0.51
9:Ff:689:LEU:HA	9:Ff:692:MET:HG3	1.92	0.51
9:Ff:750:ALA:O	9:Ff:754:PRO:HG2	2.10	0.51
6:Af:238:MET:HB3	6:Al:250:TYR:HD2	1.75	0.51
6:Ar:221:TYR:CZ	6:Ax:139:TYR:HD2	2.28	0.51
6:Bj:134:TYR:O	6:Bj:138:GLU:HG3	2.10	0.51
6:Bp:115:MET:HA	6:Bp:118:ASN:OD1	2.11	0.51
5:Cs:222:LEU:HD12	5:Cs:223:ILE:N	2.26	0.51
5:Cy:221:TRP:HZ3	5:Cy:229:THR:HG22	1.76	0.51
6:Df:191:ILE:HB	6:Df:206:TRP:CZ2	2.45	0.51
2:Dh:5:ILE:HD11	6:Dr:136:THR:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Dl:225:ASN:HD21	6:Dr:176:VAL:H	1.58	0.51
6:Dr:110:LYS:O	6:Dr:110:LYS:HD3	2.10	0.51
6:Dr:126:GLN:HA	6:Dr:129:LYS:HZ2	1.75	0.51
7:Ej:778:LEU:HA	7:Ej:781:GLN:HG3	1.91	0.51
7:Ep:806:THR:HA	7:Ep:809:VAL:HG12	1.92	0.51
8:Ex:254:MET:N	8:Ex:254:MET:HE2	2.25	0.51
8:Ez:330:PHE:HB3	8:Ez:334:ARG:HH21	1.75	0.51
8:Fa:207:GLN:O	8:Fa:210:VAL:HG12	2.11	0.51
9:Fc:79:THR:HA	9:Fc:82:VAL:HG22	1.91	0.51
9:Fc:180:GLY:O	9:Fc:184:ILE:HG22	2.10	0.51
9:Fc:837:PHE:CZ	9:Fc:914:SER:HB2	2.46	0.51
9:Fd:641:TYR:HA	9:Fd:644:PHE:CE2	2.46	0.51
9:Ff:668:LYS:HG3	9:Ff:669:ASP:N	2.25	0.51
6:Af:176:VAL:N	6:Ed:225:ASN:HD21	2.09	0.51
6:Al:129:LYS:O	6:Al:129:LYS:HD3	2.10	0.51
6:Al:238:MET:HG2	6:Ar:251:ARG:NH1	2.26	0.51
2:An:2:VAL:HA	3:Ao:1:ARG:NE	2.22	0.51
6:Ar:141:LYS:HD2	7:Eg:812:TRP:CZ2	2.45	0.51
6:Ar:194:TYR:HD2	6:Ar:226:LEU:HD11	1.76	0.51
6:Ax:107:ILE:H	6:Ax:107:ILE:HD12	1.76	0.51
6:Bj:138:GLU:CA	6:Bj:141:LYS:HB3	2.37	0.51
6:Ch:189:TRP:CE2	6:Ch:260:GLY:HA2	2.45	0.51
5:Cm:253:ARG:O	5:Cm:254:ILE:HD13	2.11	0.51
6:Cn:106:VAL:O	6:Cn:110:LYS:HG2	2.11	0.51
6:Cn:171:LEU:HD21	6:Cn:241:LEU:HB3	1.92	0.51
3:Cw:5:GLY:HA3	4:Dd:1:PRO:HA	1.93	0.51
6:Dl:151:PRO:HA	6:Dl:248:VAL:HG13	1.92	0.51
6:Dr:172:SER:HB3	6:Dr:248:VAL:HG11	1.91	0.51
8:Ex:43:LEU:HD11	8:Ey:42:TYR:CD2	2.45	0.51
8:Ez:414:GLU:O	8:Ez:418:LEU:HG	2.11	0.51
9:Fb:685:PRO:HB2	9:Fb:830:VAL:HG11	1.91	0.51
9:Fc:41:LEU:HD22	9:Fc:42:PHE:CD1	2.45	0.51
9:Fc:112:ALA:HA	9:Fc:115:ILE:CD1	2.40	0.51
9:Fc:600:THR:HB	9:Fc:645:LEU:HD13	1.92	0.51
9:Fd:434:LEU:HA	9:Fd:437:ILE:HG22	1.91	0.51
9:Fd:703:LEU:O	9:Fd:707:LEU:HG	2.11	0.51
9:Fe:129:MET:O	9:Fe:132:ILE:HG13	2.10	0.51
9:Ff:525:ASP:HA	9:Ff:528:ILE:HD12	1.93	0.51
7:Fh:24:THR:HA	7:Fh:27:LEU:HD12	1.92	0.51
3:Ai:2:VAL:HG21	6:Ax:129:LYS:HD3	1.93	0.51
6:Ar:128:VAL:O	6:Ar:132:GLN:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bd:190:PRO:O	6:Bd:230:LEU:HD22	2.11	0.51
6:Bp:122:LEU:HB3	6:Bp:127:VAL:HG12	1.92	0.51
5:Bu:251:GLN:HB3	5:Bu:253:ARG:CZ	2.41	0.51
6:Bv:125:GLU:O	6:Bv:129:LYS:HG3	2.11	0.51
6:Ch:125:GLU:C	6:Ch:129:LYS:HE3	2.34	0.51
6:Ct:157:PHE:HB2	6:Ct:255:ARG:HH21	1.76	0.51
6:Cz:150:LYS:HE3	6:Cz:150:LYS:HA	1.92	0.51
6:Df:115:MET:CE	7:Ep:798:THR:HA	2.27	0.51
6:Dr:190:PRO:O	6:Dr:230:LEU:HD22	2.10	0.51
6:Dx:126:GLN:HA	6:Dx:129:LYS:CG	2.39	0.51
5:Ec:233:ARG:HG3	5:Ec:234:GLU:N	2.25	0.51
7:Eu:766:ASP:N	7:Eu:769:SER:HG	2.09	0.51
8:Ey:123:GLN:OE1	8:Ey:135:LYS:HB3	2.11	0.51
8:Ez:432:ILE:HB	8:Ez:433:GLN:NE2	2.26	0.51
9:Fb:263:MET:HE2	9:Fb:279:CYS:O	2.10	0.51
9:Fc:837:PHE:HZ	9:Fc:914:SER:HB2	1.76	0.51
9:Fd:45:VAL:HG12	9:Fd:49:LEU:HD23	1.91	0.51
9:Fd:113:LEU:HA	9:Fd:123:MET:SD	2.50	0.51
9:Ff:111:LEU:HD23	7:Fi:27:LEU:HD12	1.92	0.51
9:Ff:339:MET:SD	9:Ff:426:TYR:HB2	2.50	0.51
6:Ar:121:PRO:HB2	7:Ef:801:MET:CE	2.41	0.51
5:Bi:219:ARG:NH1	5:Bi:233:ARG:HB3	2.26	0.51
6:Bj:238:MET:HE2	6:Bj:238:MET:HA	1.93	0.51
6:Bp:181:PHE:CZ	6:Bp:228:VAL:HG21	2.45	0.51
5:Cg:207:ARG:NH1	5:Cg:240:GLY:HA3	2.25	0.51
5:Cm:219:ARG:HH12	5:Cm:233:ARG:HD3	1.76	0.51
6:Cn:130:LEU:HG	7:En:812:TRP:CZ3	2.45	0.51
6:Cn:205:GLN:NE2	7:Eo:820:TYR:HB2	2.25	0.51
6:Cz:199:PRO:HG3	7:Er:819:VAL:HG13	1.93	0.51
6:Dl:249:ASP:OD2	6:Dl:252:VAL:HG22	2.11	0.51
7:Eu:807:GLN:O	7:Eu:810:GLN:HG2	2.10	0.51
9:Fb:693:GLY:O	9:Fb:697:ILE:HG23	2.11	0.51
9:Fb:766:PHE:HB3	9:Fc:928:LYS:HZ3	1.75	0.51
9:Fc:645:LEU:HD22	9:Fc:648:PHE:HD2	1.76	0.51
9:Fe:378:PHE:HD1	9:Fe:414:PHE:HE2	1.59	0.51
6:Af:133:ILE:HD11	6:Al:120:TYR:HB2	1.93	0.51
6:Af:214:MET:HE1	6:Af:216:GLN:HG3	1.92	0.51
1:Am:2:THR:HG23	5:Aq:253:ARG:NH1	2.26	0.51
6:Ax:228:VAL:HB	6:Ax:237:VAL:HB	1.93	0.51
6:Bj:129:LYS:HE3	6:Bp:112:PHE:CD2	2.46	0.51
2:Br:4:MET:HB2	4:Bt:2:PHE:CZ	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bv:193:ALA:HB1	7:Em:820:TYR:HE2	1.76	0.51
6:Cn:157:PHE:HA	6:Cn:255:ARG:HB2	1.93	0.51
6:Cz:214:MET:HE1	7:Eq:818:GLN:CD	2.36	0.51
6:Dx:225:ASN:HD21	6:Ed:176:VAL:N	2.08	0.51
7:Ej:797:ARG:HG3	7:Ej:798:THR:N	2.26	0.51
7:Em:804:ALA:O	7:Em:808:LEU:HG	2.11	0.51
7:Er:801:MET:HE2	7:Er:801:MET:O	2.10	0.51
7:Et:781:GLN:HE22	7:Et:785:LEU:HD23	1.76	0.51
8:Ew:129:SER:HB3	8:Ew:137:THR:HG21	1.93	0.51
8:Ew:424:TYR:O	8:Ew:428:LEU:HD22	2.10	0.51
8:Ex:207:GLN:O	8:Ex:211:MET:HG3	2.11	0.51
8:Fa:433:GLN:HA	8:Fa:436:ILE:HG12	1.92	0.51
9:Fb:556:ARG:HB3	9:Fb:576:MET:CE	2.41	0.51
9:Fc:612:CYS:HB3	9:Fc:626:ARG:N	2.25	0.51
9:Fd:170:ALA:HB2	9:Fd:177:VAL:HG22	1.93	0.51
9:Fd:347:ALA:HA	9:Fd:350:MET:HG2	1.92	0.51
9:Fe:77:MET:O	9:Fe:81:MET:HG3	2.11	0.51
9:Fe:435:ASN:O	9:Fe:439:GLN:HG2	2.11	0.51
9:Fe:908:VAL:O	9:Fe:911:PHE:HB3	2.11	0.51
7:Fh:5:LYS:HA	7:Fh:8:LEU:HG	1.93	0.51
5:Ae:219:ARG:HH22	6:Al:150:LYS:HD2	1.76	0.51
2:Ah:4:MET:SD	5:Ak:248:ASP:HA	2.51	0.51
5:Ak:247:ILE:HG23	5:Ak:254:ILE:HD12	1.92	0.51
6:Ax:138:GLU:HA	6:Ax:141:LYS:HD2	1.92	0.51
6:Ax:203:ASN:ND2	6:Ax:205:GLN:HE22	2.09	0.51
6:Cn:218:THR:OG1	6:Cn:219:LYS:HD2	2.11	0.51
6:Ct:199:PRO:HG2	7:Eq:816:GLU:OE1	2.10	0.51
6:Df:173:GLN:CD	7:Er:815:VAL:HG21	2.35	0.51
6:Di:190:PRO:O	6:Di:231:ARG:HG2	2.11	0.51
6:Ed:238:MET:HE3	6:Ed:238:MET:HA	1.92	0.51
7:Eh:789:LYS:HD2	7:Eh:789:LYS:C	2.36	0.51
7:Eu:797:ARG:HG2	7:Eu:801:MET:SD	2.51	0.51
8:Ew:89:ILE:HD12	8:Ew:90:PRO:HD2	1.92	0.51
8:Ey:341:SER:HA	8:Ey:344:VAL:HG22	1.92	0.51
9:Fb:163:PRO:HB2	9:Fb:579:LEU:HD21	1.92	0.51
9:Fb:377:GLN:HE21	9:Fb:379:GLY:HA2	1.76	0.51
9:Fb:921:MET:O	9:Fb:924:ILE:HG13	2.11	0.51
9:Fc:706:THR:O	9:Fc:710:MET:HG2	2.11	0.51
9:Fe:287:ILE:HG13	9:Fe:332:ARG:NH1	2.26	0.51
9:Ff:147:LEU:HB3	9:Ff:453:ILE:HG23	1.91	0.51
9:Ff:664:LEU:HD21	9:Ff:738:TRP:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ff:837:PHE:O	9:Ff:841:ILE:HG12	2.11	0.51
2:Ab:2:VAL:HG23	3:Ac:1:ARG:HG3	1.93	0.50
6:Al:190:PRO:O	6:Al:231:ARG:HG2	2.11	0.50
5:Bc:253:ARG:HA	5:Bc:262:ILE:O	2.11	0.50
6:Bd:238:MET:HB3	6:Bj:250:TYR:HD1	1.76	0.50
5:Bo:246:LEU:HD12	5:Bo:247:ILE:N	2.26	0.50
6:Bp:134:TYR:HA	6:Bv:120:TYR:HE2	1.77	0.50
6:Bv:107:ILE:HD12	6:Bv:107:ILE:H	1.76	0.50
6:Bv:181:PHE:CD2	6:Bv:230:LEU:HD21	2.46	0.50
6:Cb:183:ASP:HB3	6:Cb:189:TRP:CE3	2.46	0.50
2:Cv:6:GLY:CA	6:Dl:125:GLU:HB3	2.41	0.50
6:Cz:106:VAL:HG23	6:Cz:110:LYS:HZ2	1.76	0.50
2:Db:2:VAL:HG13	3:Dc:1:ARG:HD2	1.93	0.50
6:Df:191:ILE:HD12	6:Df:206:TRP:NE1	2.26	0.50
7:Ee:805:ALA:O	7:Ee:809:VAL:HG12	2.11	0.50
8:Ew:42:TYR:HD2	8:Fa:43:LEU:HD11	1.76	0.50
8:Ew:423:ASN:HD22	8:Ex:425:GLN:HE22	1.57	0.50
8:Ex:25:ALA:HB1	8:Ex:30:GLN:HE22	1.75	0.50
8:Ex:433:GLN:HA	8:Ex:436:ILE:CD1	2.41	0.50
8:Ey:399:TRP:CE2	8:Ey:403:ILE:HD11	2.46	0.50
8:Ez:141:LEU:HB2	8:Ez:213:ASN:HB3	1.92	0.50
8:Ez:219:PRO:HG2	8:Ez:230:PHE:HB3	1.93	0.50
8:Ez:424:TYR:CZ	8:Fa:383:LEU:HB2	2.45	0.50
9:Fb:222:MET:HE1	9:Fb:519:TRP:HD1	1.76	0.50
9:Fd:617:ILE:HG22	9:Fd:618:LEU:H	1.76	0.50
9:Fd:659:PHE:HA	9:Fd:662:ILE:HD11	1.92	0.50
9:Fd:759:MET:CE	9:Fe:917:ILE:HD11	2.38	0.50
9:Fe:148:SER:O	9:Fe:152:ARG:HD3	2.11	0.50
9:Fe:332:ARG:O	9:Fe:336:ILE:HG13	2.11	0.50
9:Fe:589:THR:OG1	9:Fe:664:LEU:HD21	2.10	0.50
9:Fe:632:PHE:HZ	9:Ff:628:MET:HB3	1.76	0.50
9:Fe:729:MET:SD	9:Fe:730:MET:HB3	2.51	0.50
7:Fh:19:VAL:HB	7:Fh:23:PHE:CZ	2.46	0.50
6:Ar:168:VAL:HA	6:Ar:240:THR:HG23	1.94	0.50
6:Ax:158:VAL:HB	6:Ax:256:VAL:HA	1.93	0.50
5:Bi:246:LEU:HD12	5:Bi:247:ILE:N	2.26	0.50
6:Bj:201:SER:HB2	6:Bj:219:LYS:HD2	1.93	0.50
6:Bj:229:ARG:O	6:Bj:229:ARG:HD3	2.11	0.50
5:Bo:208:ILE:HG23	5:Bo:225:SER:HB2	1.93	0.50
5:Bu:219:ARG:NH1	5:Bu:233:ARG:HB3	2.26	0.50
5:Cg:219:ARG:HA	5:Cg:232:VAL:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Df:106:VAL:O	6:Df:110:LYS:HG3	2.11	0.50
6:Dl:169:ILE:HD12	6:Dl:249:ASP:HB3	1.93	0.50
6:Ed:112:PHE:CE1	7:Et:801:MET:HE2	2.45	0.50
6:Ed:208:LYS:HE3	7:Ee:823:GLY:C	2.36	0.50
7:Eu:797:ARG:O	7:Eu:801:MET:HG2	2.12	0.50
8:Ew:77:VAL:HG12	8:Ew:378:MET:HE1	1.93	0.50
8:Ex:205:MET:SD	8:Ex:210:VAL:HB	2.52	0.50
8:Ex:409:ALA:O	8:Ex:413:LYS:HG3	2.12	0.50
8:Ey:136:ILE:CD1	8:Ey:277:LEU:HD23	2.42	0.50
8:Ez:67:GLN:HB3	8:Fa:404:ASN:OD1	2.12	0.50
8:Ez:179:PHE:CZ	8:Fa:233:TYR:HA	2.46	0.50
8:Ez:228:PRO:HG2	8:Ez:235:TYR:HB2	1.94	0.50
8:Fa:78:GLN:HE22	8:Fa:79:ASN:ND2	2.09	0.50
9:Fc:751:TYR:CE1	9:Fd:910:ALA:HA	2.46	0.50
9:Fd:57:MET:HA	9:Fd:60:MET:HB3	1.93	0.50
9:Fd:268:LYS:HB3	9:Fe:403:PRO:HG2	1.93	0.50
9:Fd:418:GLU:CD	9:Fd:418:GLU:H	2.19	0.50
9:Fd:464:ALA:HA	9:Fd:467:TYR:CE1	2.46	0.50
9:Fd:546:LYS:HE3	9:Fd:650:GLU:HG3	1.93	0.50
9:Fd:936:LEU:HA	9:Fd:939:LYS:HE3	1.94	0.50
9:Fe:258:SER:HA	9:Fe:285:ASN:HA	1.94	0.50
9:Fe:759:MET:HG2	9:Ff:917:ILE:HD11	1.92	0.50
9:Ff:71:LEU:HA	9:Ff:74:ILE:HD12	1.93	0.50
6:Af:105:GLU:O	6:Af:109:LYS:HE2	2.11	0.50
6:Af:107:ILE:HA	6:Af:110:LYS:HE2	1.92	0.50
6:Bv:208:LYS:HE2	7:Em:823:GLY:HA2	1.94	0.50
5:Cg:220:ALA:HB2	5:Cg:247:ILE:HD12	1.92	0.50
6:Ch:182:LEU:HB3	6:Ch:255:ARG:HE	1.77	0.50
3:Ck:2:VAL:HG21	6:Cz:129:LYS:HG2	1.94	0.50
4:Cr:2:PHE:HB2	5:Cs:251:GLN:HE21	1.76	0.50
6:Cz:177:SER:HA	6:Cz:250:TYR:O	2.12	0.50
6:Dx:114:ASP:O	6:Dx:117:ARG:HB3	2.12	0.50
7:Eq:798:THR:O	7:Eq:802:LEU:HD22	2.11	0.50
8:Ew:412:GLN:NE2	8:Ex:412:GLN:HB3	2.27	0.50
8:Ex:424:TYR:CE2	8:Ey:380:THR:HA	2.46	0.50
8:Ey:321:GLN:O	8:Ey:325:THR:HG23	2.11	0.50
8:Fa:185:PRO:HA	8:Fa:292:LEU:HD23	1.94	0.50
8:Fa:350:ILE:HA	8:Fa:353:LYS:HE2	1.94	0.50
9:Fb:191:MET:HE1	9:Fb:264:PRO:HG3	1.94	0.50
9:Fb:843:TYR:CZ	9:Ff:469:PHE:HB3	2.47	0.50
9:Fc:123:MET:O	9:Fc:126:VAL:HB	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fc:179:LYS:HD3	9:Fc:550:LEU:HD12	1.93	0.50
9:Fc:243:GLN:O	9:Fc:247:THR:HG22	2.11	0.50
9:Fc:514:SER:O	9:Fc:517:CYS:HB2	2.12	0.50
9:Fc:631:LEU:O	9:Fc:635:TYR:HB3	2.11	0.50
9:Fd:64:PHE:O	9:Fd:68:VAL:HG12	2.11	0.50
9:Fd:64:PHE:CZ	9:Fd:780:PRO:HG3	2.47	0.50
9:Fd:462:ILE:O	9:Fd:761:PHE:HZ	1.95	0.50
9:Ff:77:MET:SD	7:Fi:28:LEU:HD11	2.52	0.50
9:Ff:274:PHE:CZ	9:Ff:515:LEU:HD12	2.46	0.50
9:Ff:338:GLN:HA	9:Ff:341:VAL:HG22	1.92	0.50
9:Ff:498:PRO:O	9:Ff:501:LEU:HG	2.12	0.50
7:Fg:15:THR:HG22	7:Fg:18:ARG:HH22	1.76	0.50
1:Aa:11:TYR:CD2	3:Ac:9:TYR:HB3	2.46	0.50
6:Af:132:GLN:NE2	6:Af:136:THR:HG23	2.25	0.50
6:Af:191:ILE:HD12	6:Af:206:TRP:NE1	2.26	0.50
6:Ax:114:ASP:O	6:Ax:117:ARG:HG3	2.11	0.50
2:Bl:9:ARG:NH2	3:Bm:14:TYR:HB2	2.26	0.50
5:Bu:254:ILE:HB	5:Bu:262:ILE:CG2	2.42	0.50
6:Bv:199:PRO:HD2	7:Em:816:GLU:HB3	1.94	0.50
5:Cg:219:ARG:HH12	5:Cg:233:ARG:HD3	1.75	0.50
5:Cg:226:ASN:ND2	5:Cg:228:SER:HB3	2.26	0.50
6:Cn:115:MET:HE3	7:Em:801:MET:HB2	1.92	0.50
6:Ct:227:ALA:HA	6:Cz:251:ARG:HH22	1.75	0.50
6:Ed:160:LEU:HD12	6:Ed:160:LEU:O	2.11	0.50
7:Eq:781:GLN:HG3	9:Fb:341:VAL:HG11	1.94	0.50
9:Fb:223:ASN:O	9:Fb:227:ARG:HG3	2.11	0.50
9:Fc:770:ILE:HD11	9:Fd:928:LYS:NZ	2.26	0.50
9:Fc:908:VAL:O	9:Fc:911:PHE:HB3	2.11	0.50
9:Fe:77:MET:SD	7:Fj:28:LEU:HD21	2.52	0.50
9:Fe:734:LEU:O	9:Fe:737:ALA:HB3	2.11	0.50
9:Ff:455:GLU:O	9:Ff:459:LYS:HG2	2.12	0.50
9:Ff:516:LEU:O	9:Ff:520:PHE:HB2	2.11	0.50
9:Ff:940:VAL:HA	9:Ff:943:TRP:CE3	2.46	0.50
6:Al:229:ARG:HA	6:Al:236:PRO:HB3	1.94	0.50
5:Bc:247:ILE:HA	5:Bc:254:ILE:HD13	1.94	0.50
5:Bi:247:ILE:HG23	5:Bi:254:ILE:HD12	1.93	0.50
6:Df:173:GLN:HA	6:Df:217:ALA:O	2.11	0.50
6:Dl:221:TYR:HE1	6:Dr:142:ALA:HB3	1.76	0.50
6:Dr:180:VAL:HG12	6:Dr:212:THR:HG22	1.93	0.50
7:Ek:805:ALA:O	7:Ek:809:VAL:HG12	2.11	0.50
7:Et:789:LYS:HA	7:Et:789:LYS:HZ3	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ey:419:LEU:HD11	8:Ez:418:LEU:CD2	2.39	0.50
8:Ez:317:VAL:HG22	8:Fa:198:TRP:HD1	1.76	0.50
8:Ez:347:LEU:HA	8:Ez:350:ILE:HD12	1.93	0.50
8:Fa:281:ARG:NH1	8:Fa:281:ARG:HB2	2.25	0.50
8:Fa:425:GLN:HA	8:Fa:428:LEU:HG	1.94	0.50
9:Fb:64:PHE:O	9:Fb:68:VAL:HG13	2.11	0.50
9:Fb:103:ILE:HG22	9:Fb:106:ARG:HE	1.76	0.50
9:Fb:605:MET:HB3	9:Fb:641:TYR:HE2	1.76	0.50
9:Fb:905:TRP:HE1	9:Ff:702:THR:CG2	2.20	0.50
9:Fc:812:PRO:O	9:Fc:816:ILE:HG12	2.12	0.50
9:Fd:35:VAL:HA	9:Fd:38:LEU:HB2	1.93	0.50
9:Fd:596:PHE:HZ	9:Fd:653:ASN:HD22	1.59	0.50
9:Fe:139:ALA:HB3	9:Fe:461:TRP:NE1	2.26	0.50
7:Fh:30:ILE:O	7:Fh:34:ILE:HG22	2.11	0.50
2:Ab:4:MET:HE3	5:Ae:250:LEU:HG	1.92	0.50
4:Aj:4:ALA:HB3	5:Ak:251:GLN:NE2	2.27	0.50
3:Ao:2:VAL:HG21	6:Bd:129:LYS:CG	2.42	0.50
5:Bi:219:ARG:HG2	6:Bp:148:PRO:HD2	1.93	0.50
6:Bp:122:LEU:HD12	6:Bp:127:VAL:HG12	1.94	0.50
6:Cb:153:ALA:HB1	6:Cb:251:ARG:HH21	1.77	0.50
5:Cg:231:THR:HG21	6:Cn:151:PRO:HD2	1.94	0.50
6:Ch:223:TYR:HB2	6:Ch:242:ILE:HA	1.93	0.50
5:Cm:233:ARG:CZ	5:Cm:236:SER:HB3	2.41	0.50
6:Df:216:GLN:HB3	7:Er:818:GLN:NE2	2.26	0.50
6:Df:251:ARG:HG2	6:Df:251:ARG:HH11	1.75	0.50
5:Dk:219:ARG:HA	5:Dk:232:VAL:O	2.12	0.50
6:Dr:135:GLU:O	6:Dr:138:GLU:HG2	2.10	0.50
6:Ed:182:LEU:O	6:Ed:256:VAL:HG23	2.12	0.50
7:En:797:ARG:HD2	7:En:801:MET:HE1	1.94	0.50
7:Es:785:LEU:HD12	7:Es:789:LYS:HD3	1.93	0.50
7:Et:780:LYS:NZ	7:Eu:775:GLN:HE21	2.10	0.50
8:Ey:210:VAL:O	8:Ey:214:VAL:HG23	2.12	0.50
8:Ez:277:LEU:HA	8:Ez:280:ILE:HG22	1.93	0.50
9:Fb:651:MET:O	9:Fb:652:ILE:C	2.55	0.50
9:Fd:243:GLN:O	9:Fd:247:THR:HG22	2.12	0.50
9:Fd:735:LEU:HA	9:Fd:738:TRP:CZ3	2.46	0.50
9:Fe:420:LEU:HD22	9:Fe:420:LEU:H	1.77	0.50
3:Au:2:VAL:HG21	6:Bj:129:LYS:CD	2.40	0.50
5:Bc:213:GLN:HG2	5:Bc:221:TRP:O	2.11	0.50
1:Bq:3:ASP:OD1	3:Bs:14:TYR:HB3	2.12	0.50
6:Ch:200:SER:OG	7:Eo:816:GLU:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Dr:166:PRO:HG3	6:Dx:250:TYR:CD1	2.46	0.50
7:EI:780:LYS:HD3	7:EI:780:LYS:H	1.77	0.50
8:Ew:298:TYR:HA	8:Ew:301:LEU:HD11	1.93	0.50
8:Ex:191:MET:HE1	8:Ex:198:TRP:CG	2.46	0.50
8:Ey:143:ASP:HB3	8:Ey:176:GLN:NE2	2.26	0.50
8:Ez:420:ALA:N	8:Fa:418:LEU:HD21	2.27	0.50
8:Fa:332:ASN:HA	8:Fa:335:VAL:HG22	1.93	0.50
9:Fb:185:LEU:O	9:Fb:189:ILE:HG12	2.12	0.50
9:Fc:222:MET:HA	9:Fc:222:MET:HE3	1.94	0.50
9:Fc:321:THR:HG23	9:Fc:324:GLN:HB2	1.93	0.50
9:Fc:595:ASN:HB3	9:Fc:597:LYS:HE2	1.94	0.50
9:Fc:926:VAL:O	9:Fc:929:ALA:HB3	2.12	0.50
9:Fe:260:GLU:HG3	9:Fe:283:LYS:HG2	1.93	0.50
6:Af:238:MET:HG2	6:Al:251:ARG:NH2	2.27	0.50
6:Al:115:MET:O	6:Al:119:LEU:HD12	2.12	0.50
6:Al:229:ARG:HD2	6:Al:229:ARG:C	2.37	0.50
1:CI:1:CYS:SG	4:Cl:2:PHE:HB3	2.52	0.50
5:Cm:220:ALA:HB3	5:Cm:232:VAL:HG13	1.94	0.50
6:Cn:114:ASP:O	6:Cn:117:ARG:HB3	2.12	0.50
6:Cz:129:LYS:O	6:Cz:133:ILE:HG13	2.11	0.50
6:Df:225:ASN:HD21	6:Dl:176:VAL:H	1.57	0.50
5:Dk:264:PHE:CD1	6:Dl:246:LYS:HE3	2.46	0.50
7:Es:797:ARG:O	7:Es:801:MET:HG3	2.11	0.50
8:Ex:424:TYR:O	8:Ex:427:TYR:HB3	2.12	0.50
8:Ey:220:PRO:HD2	8:Ey:228:PRO:O	2.12	0.50
8:Ez:418:LEU:HA	8:Ez:421:GLU:CD	2.36	0.50
9:Fb:449:SER:O	9:Fb:452:PHE:HE1	1.95	0.50
9:Fb:493:LYS:HA	9:Fb:493:LYS:HE3	1.93	0.50
9:Fc:641:TYR:CE1	9:Fc:645:LEU:HG	2.47	0.50
9:Fd:670:ILE:HA	9:Fd:673:VAL:HG22	1.94	0.50
9:Fe:67:ALA:O	9:Fe:71:LEU:HD12	2.11	0.50
9:Fe:915:ILE:HA	9:Fe:918:TYR:HB2	1.94	0.50
9:Ff:339:MET:HE1	9:Ff:422:ALA:O	2.12	0.50
9:Ff:514:SER:O	9:Ff:517:CYS:HB2	2.11	0.50
2:Ah:2:VAL:HA	3:Ai:1:ARG:HH21	1.76	0.50
6:Al:204:ILE:HD11	6:Al:213:LEU:HB3	1.92	0.50
5:Aw:220:ALA:HB2	5:Aw:247:ILE:HD12	1.94	0.50
6:Ax:169:ILE:HD11	6:Ax:239:LEU:HB3	1.94	0.50
6:Ax:199:PRO:HD2	7:EI:816:GLU:HB2	1.94	0.50
6:Bp:196:LEU:HD22	6:Bp:199:PRO:HA	1.94	0.50
1:Bq:16:ALA:HB3	2:Bx:9:ARG:HG3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bv:147:THR:HG23	6:Bv:246:LYS:HZ1	1.76	0.50
6:Ch:181:PHE:CE2	6:Ch:256:VAL:HG11	2.47	0.50
6:Cn:167:PRO:HB2	6:Cn:239:LEU:HD23	1.94	0.50
6:Cz:115:MET:CE	7:Eo:797:ARG:HH21	2.24	0.50
6:Ed:109:LYS:O	6:Ed:113:LYS:HG2	2.12	0.50
7:Ei:787:GLU:O	7:Ei:791:GLN:HB2	2.12	0.50
7:Es:780:LYS:HA	7:Es:783:GLU:HG2	1.94	0.50
8:Ew:48:LYS:HG2	8:Fa:64:PRO:HG3	1.93	0.50
8:Ew:425:GLN:CG	8:Fa:426:MET:HE1	2.30	0.50
8:Ex:317:VAL:HG23	8:Ex:318:GLN:OE1	2.11	0.50
8:Ez:320:LYS:HZ3	8:Fa:198:TRP:CG	2.29	0.50
9:Fb:709:ASN:HD21	9:Fc:597:LYS:H	1.59	0.50
9:Fb:753:ILE:HG23	9:Fb:926:VAL:HG11	1.94	0.50
9:Fc:339:MET:CE	9:Fc:426:TYR:HB2	2.41	0.50
9:Fc:738:TRP:HD1	9:Fc:912:PHE:HE2	1.60	0.50
9:Fd:507:LYS:HD2	9:Fe:635:TYR:HB2	1.93	0.50
9:Fe:182:LEU:HD23	9:Fe:571:VAL:HG21	1.93	0.50
9:Fe:243:GLN:O	9:Fe:247:THR:HG22	2.12	0.50
9:Fe:667:MET:CE	9:Fe:915:ILE:HD11	2.42	0.50
9:Ff:354:ASP:HB3	9:Ff:357:PHE:HD1	1.77	0.50
6:Af:110:LYS:HA	6:Af:113:LYS:HE2	1.94	0.49
6:Af:130:LEU:HD21	7:Ev:805:ALA:HB1	1.94	0.49
6:Bp:150:LYS:N	6:Bp:247:ALA:HA	2.27	0.49
6:Bp:189:TRP:CG	6:Bp:230:LEU:HD12	2.47	0.49
6:Bp:194:TYR:HE1	6:Bp:196:LEU:HB2	1.76	0.49
6:Bp:209:THR:HG22	7:El:824:THR:HG21	1.93	0.49
6:Cb:130:LEU:HD23	7:El:808:LEU:HD12	1.94	0.49
6:Cn:237:VAL:C	6:Ct:251:ARG:HH22	2.20	0.49
2:Cp:5:ILE:HD11	6:Cz:136:THR:O	2.11	0.49
6:Df:221:TYR:CE2	6:Dl:139:TYR:HB2	2.47	0.49
6:Df:236:PRO:C	6:Dl:251:ARG:NH2	2.70	0.49
6:Dl:111:ALA:HA	6:Dl:114:ASP:OD1	2.12	0.49
6:Dl:189:TRP:CG	6:Dl:230:LEU:HD13	2.47	0.49
5:Dq:213:GLN:NE2	5:Dq:223:ILE:HB	2.27	0.49
7:Eq:807:GLN:H	7:Eq:807:GLN:CD	2.19	0.49
8:Ex:215:ILE:HD12	8:Ex:215:ILE:H	1.76	0.49
8:Ey:174:VAL:O	8:Ey:178:VAL:HG12	2.11	0.49
8:Fa:300:GLU:HA	8:Fa:303:ASN:HD21	1.76	0.49
9:Fc:461:TRP:CZ3	9:Fc:812:PRO:HB3	2.47	0.49
9:Fc:825:LEU:HD22	9:Fc:828:VAL:HG23	1.94	0.49
9:Fd:596:PHE:CD1	9:Fd:656:VAL:HG11	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ff:605:MET:HB2	9:Ff:638:ARG:HG2	1.94	0.49
9:Ff:762:THR:HB	9:Ff:766:PHE:CZ	2.47	0.49
7:Fj:24:THR:O	7:Fj:27:LEU:HD12	2.11	0.49
6:Af:129:LYS:HG2	3:Du:2:VAL:HG21	1.93	0.49
6:Ar:207:ASP:OD2	6:Ar:210:SER:HB3	2.12	0.49
6:Ar:220:LEU:HD12	6:Ax:138:GLU:OE2	2.12	0.49
6:Df:108:ASP:HA	7:Ep:797:ARG:NH1	2.27	0.49
6:Df:190:PRO:O	6:Df:230:LEU:HD12	2.12	0.49
3:Du:7:THR:HB	3:Du:9:TYR:CE2	2.48	0.49
6:Dx:204:ILE:CD1	6:Dx:215:ILE:HD13	2.42	0.49
7:El:804:ALA:O	7:El:807:GLN:HB3	2.12	0.49
8:Ex:121:LYS:HA	8:Ex:121:LYS:HE3	1.94	0.49
8:Ey:134:GLY:N	8:Ey:258:ALA:HB2	2.28	0.49
9:Fc:697:ILE:HG13	9:Fc:698:ASN:N	2.27	0.49
9:Fd:760:ILE:HG22	9:Fd:933:ILE:HD11	1.95	0.49
9:Fe:73:GLY:HA2	9:Fe:76:ILE:HG12	1.94	0.49
9:Fe:702:THR:HG23	9:Ff:905:TRP:NE1	2.26	0.49
9:Ff:56:ILE:HG13	9:Ff:57:MET:SD	2.51	0.49
9:Ff:335:ALA:HA	9:Ff:338:GLN:CD	2.37	0.49
6:Af:132:GLN:HG2	3:Du:4:ILE:HA	1.94	0.49
6:Al:230:LEU:HD12	6:Al:231:ARG:N	2.25	0.49
6:Ar:246:LYS:HA	6:Ar:246:LYS:HE2	1.94	0.49
6:Bd:179:LEU:HD12	6:Bd:254:LEU:HD11	1.94	0.49
5:Bu:244:VAL:HA	5:Bu:256:THR:HA	1.93	0.49
6:Bv:136:THR:HA	6:Bv:139:TYR:CE2	2.47	0.49
6:Cn:214:MET:CE	7:Eo:818:GLN:HE21	2.21	0.49
6:Cz:216:GLN:HB3	7:Eq:818:GLN:CD	2.38	0.49
6:Cz:216:GLN:HB3	7:Eq:818:GLN:OE1	2.12	0.49
6:Df:238:MET:HG2	6:Dl:251:ARG:CZ	2.42	0.49
7:Ef:773:GLN:O	7:Ef:777:ILE:HG12	2.12	0.49
7:Ep:797:ARG:HG2	7:Ep:801:MET:HG2	1.94	0.49
7:Eq:808:LEU:O	7:Eq:812:TRP:CD1	2.65	0.49
8:Ey:55:THR:HA	8:Ez:42:TYR:CE1	2.47	0.49
8:Ey:228:PRO:HB2	8:Ey:235:TYR:HB2	1.94	0.49
8:Ey:317:VAL:HA	8:Ez:198:TRP:CZ3	2.40	0.49
8:Ez:298:TYR:HA	8:Ez:301:LEU:CD1	2.42	0.49
8:Fa:297:ALA:HA	8:Fa:300:GLU:OE1	2.13	0.49
9:Fc:112:ALA:HA	9:Fc:115:ILE:HD11	1.94	0.49
9:Fe:273:TYR:O	9:Fe:276:ASN:HB2	2.12	0.49
9:Fe:433:THR:O	9:Fe:437:ILE:HG12	2.12	0.49
9:Ff:94:LEU:HD13	9:Ff:98:TRP:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ff:766:PHE:O	9:Ff:770:ILE:HG12	2.12	0.49
6:Bj:168:VAL:HG13	6:Bj:242:ILE:HD13	1.95	0.49
6:Bj:189:TRP:CE2	6:Bj:260:GLY:HA2	2.47	0.49
5:Bu:211:TYR:HA	5:Bu:262:ILE:HD11	1.93	0.49
6:Bv:246:LYS:O	6:Bv:246:LYS:HD3	2.12	0.49
6:Cn:128:VAL:HG23	6:Cn:132:GLN:NE2	2.24	0.49
6:Cz:145:PRO:HG3	6:Df:131:LYS:HG2	1.94	0.49
6:Cz:178:SER:HB3	6:Cz:251:ARG:CD	2.43	0.49
5:Dk:217:PRO:HG2	6:Dr:143:ALA:HB1	1.94	0.49
6:Dx:204:ILE:HA	6:Dx:214:MET:O	2.12	0.49
5:Ec:253:ARG:HH21	5:Ec:263:LYS:HD2	1.78	0.49
7:Eh:792:GLN:HB2	7:Eh:795:GLN:HE21	1.77	0.49
7:El:805:ALA:O	7:El:809:VAL:HG12	2.12	0.49
7:Es:771:ALA:HA	7:Es:774:LEU:HD23	1.95	0.49
8:Ew:246:ASN:ND2	8:Ew:250:ALA:HB3	2.27	0.49
8:Ew:334:ARG:HD2	8:Ex:282:TYR:OH	2.12	0.49
8:Ew:448:LEU:HD13	8:Ex:339:GLN:HB3	1.95	0.49
8:Ex:409:ALA:O	8:Ex:412:GLN:HG2	2.11	0.49
8:Ey:246:ASN:HA	8:Ey:249:ILE:HG22	1.94	0.49
8:Ey:253:LEU:C	8:Ey:254:MET:HE2	2.37	0.49
8:Ey:408:PRO:O	8:Ey:411:VAL:HG22	2.12	0.49
9:Fb:643:PHE:CE2	9:Fc:605:MET:HE1	2.48	0.49
9:Fb:935:HIS:O	9:Fb:939:LYS:HG2	2.12	0.49
9:Fc:588:LEU:HD12	9:Fc:661:MET:HE3	1.95	0.49
9:Fd:79:THR:HA	9:Fd:82:VAL:HG22	1.95	0.49
9:Fd:263:MET:HA	9:Fd:264:PRO:C	2.38	0.49
9:Fd:819:TYR:O	9:Fd:823:ILE:HG12	2.12	0.49
9:Ff:109:PHE:O	9:Ff:113:LEU:HD13	2.12	0.49
9:Ff:596:PHE:CE2	9:Ff:656:VAL:HG21	2.47	0.49
7:Fg:34:ILE:HG23	7:Fg:38:LYS:HZ1	1.77	0.49
6:Bj:188:PRO:HB3	6:Bj:211:ASN:ND2	2.27	0.49
6:Ch:181:PHE:HE2	6:Ch:237:VAL:HG11	1.78	0.49
6:Cn:121:PRO:HG2	7:En:801:MET:HG3	1.95	0.49
5:Cs:219:ARG:HD2	6:Cz:147:THR:HG23	1.93	0.49
5:De:219:ARG:NH1	5:De:233:ARG:HB3	2.27	0.49
5:Dq:250:LEU:HD12	5:Dq:251:GLN:HG3	1.95	0.49
6:Dr:196:LEU:HD12	6:Dr:204:ILE:HD12	1.94	0.49
6:Dr:223:TYR:HB2	6:Dr:242:ILE:HG13	1.94	0.49
7:El:792:GLN:HA	7:El:795:GLN:NE2	2.28	0.49
7:Eq:797:ARG:HD2	7:Eq:797:ARG:C	2.37	0.49
8:Ew:307:ALA:HB1	8:Ew:314:TYR:CD1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ew:339:GLN:HE22	8:Fa:448:LEU:HB2	1.77	0.49
8:Ex:261:SER:HA	8:Ex:270:LYS:HE3	1.94	0.49
8:Ez:331:ASN:HD21	8:Fa:211:MET:HB2	1.77	0.49
8:Ez:375:GLU:O	8:Ez:378:MET:HE3	2.12	0.49
8:Fa:400:ILE:HG13	8:Fa:401:LYS:HD2	1.95	0.49
9:Fb:113:LEU:O	9:Fb:122:CYS:HB3	2.13	0.49
9:Fb:664:LEU:HA	9:Fb:667:MET:HG3	1.95	0.49
9:Fc:704:TRP:CH2	9:Fd:733:PRO:HG2	2.47	0.49
9:Fc:735:LEU:HD23	9:Fc:738:TRP:CZ3	2.47	0.49
9:Fc:909:TYR:O	9:Fc:912:PHE:HB2	2.12	0.49
9:Fd:667:MET:HA	9:Fd:670:ILE:HD11	1.94	0.49
9:Fe:546:LYS:N	9:Fe:546:LYS:HD3	2.27	0.49
9:Fe:590:PHE:HB3	9:Fe:593:LEU:HB3	1.93	0.49
9:Fe:653:ASN:O	9:Fe:657:MET:HG2	2.12	0.49
9:Ff:234:ILE:H	9:Ff:234:ILE:HD12	1.78	0.49
9:Ff:720:PHE:O	9:Ff:723:PHE:HD2	1.94	0.49
6:Af:181:PHE:CZ	6:Af:213:LEU:HD12	2.45	0.49
2:Bl:1:CYS:HA	3:Bm:4:ILE:HD13	1.94	0.49
6:Cb:221:TYR:CD1	6:Ch:139:TYR:HD1	2.30	0.49
5:Cs:245:LYS:NZ	5:Cs:257:SER:HB3	2.27	0.49
6:Ct:233:LEU:HD23	6:Ct:234:ASN:H	1.77	0.49
6:Df:108:ASP:HA	7:Ep:797:ARG:HH12	1.78	0.49
5:Dk:208:ILE:HG23	5:Dk:225:SER:HB2	1.94	0.49
7:Eg:810:GLN:HA	7:Eg:813:LYS:HE2	1.95	0.49
7:En:807:GLN:NE2	7:En:808:LEU:HD22	2.28	0.49
8:Ew:206:TYR:OH	8:Ew:208:ASN:HB3	2.12	0.49
8:Ex:94:MET:HE3	8:Ey:241:SER:HB2	1.94	0.49
8:Fa:445:LEU:HA	8:Fa:448:LEU:HG	1.93	0.49
9:Fb:45:VAL:HG11	9:Fb:129:MET:HG2	1.94	0.49
9:Fc:185:LEU:O	9:Fc:189:ILE:HG12	2.13	0.49
9:Fc:465:GLY:HA3	9:Fc:761:PHE:HD2	1.78	0.49
9:Fe:338:GLN:NE2	9:Fe:425:ASP:HB2	2.28	0.49
9:Fe:807:ASN:HB2	9:Fe:941:LEU:HD11	1.95	0.49
7:Fg:31:ALA:HA	7:Fg:34:ILE:HD12	1.95	0.49
4:Ap:5:ASP:HA	5:Aq:251:GLN:HG2	1.95	0.49
6:Ar:166:PRO:HG3	6:Ax:250:TYR:HD1	1.77	0.49
3:Bs:1:ARG:HG2	3:Bs:2:VAL:N	2.28	0.49
5:Ca:219:ARG:NH1	5:Ca:233:ARG:HB3	2.28	0.49
6:Cb:129:LYS:HD2	6:Ch:112:PHE:CZ	2.48	0.49
1:Cc:6:LEU:O	1:Cc:10:GLU:HG2	2.12	0.49
6:Df:238:MET:N	6:Dl:251:ARG:HH22	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dg:13:LYS:N	1:Dg:13:LYS:HD3	2.28	0.49
6:Dl:236:PRO:HG2	6:Dr:251:ARG:NE	2.27	0.49
2:Dn:4:MET:HE1	5:Dq:248:ASP:OD1	2.13	0.49
6:Dr:122:LEU:HD13	6:Dr:126:GLN:HB3	1.95	0.49
8:Ex:42:TYR:HA	8:Ex:45:ASN:ND2	2.28	0.49
8:Ex:120:PHE:HA	8:Ex:123:GLN:HB2	1.95	0.49
8:Ex:346:ASN:O	8:Ex:350:ILE:HG22	2.13	0.49
8:Ey:35:ASN:O	8:Ey:39:LEU:HD22	2.13	0.49
8:Ez:350:ILE:HG22	8:Ez:354:ARG:HH21	1.78	0.49
9:Fb:420:LEU:HD22	9:Fb:420:LEU:H	1.76	0.49
9:Fb:661:MET:HB3	9:Fb:665:GLN:CG	2.43	0.49
9:Fb:776:MET:C	9:Fb:776:MET:HE2	2.37	0.49
9:Fc:124:MET:HG3	9:Fc:128:PHE:CE1	2.35	0.49
9:Fc:124:MET:HE3	9:Fc:783:ALA:HB2	1.95	0.49
9:Fc:136:VAL:HG22	9:Fc:461:TRP:CZ2	2.46	0.49
9:Fd:708:LEU:HD13	9:Fe:730:MET:SD	2.52	0.49
9:Fd:768:TRP:HA	9:Fd:811:ARG:HH12	1.77	0.49
9:Fe:725:PHE:O	9:Fe:728:ILE:HG22	2.12	0.49
9:Fe:744:SER:O	9:Fe:748:VAL:HG23	2.11	0.49
9:Ff:117:LYS:HZ3	9:Ff:119:SER:H	1.60	0.49
9:Ff:693:GLY:O	9:Ff:697:ILE:HG12	2.13	0.49
6:Al:106:VAL:HG23	6:Al:110:LYS:NZ	2.27	0.49
3:Ao:2:VAL:HG21	6:Bd:129:LYS:HD3	1.95	0.49
6:Ax:115:MET:HE3	7:Ef:798:THR:HA	1.95	0.49
6:Bp:204:ILE:CG1	6:Bp:215:ILE:HD13	2.42	0.49
5:Ca:231:THR:HG21	6:Ch:151:PRO:HG2	1.94	0.49
6:Cb:110:LYS:HA	6:Cb:113:LYS:HG2	1.94	0.49
6:Ch:207:ASP:HB3	7:En:820:TYR:OH	2.13	0.49
6:Ct:225:ASN:HB2	6:Cz:250:TYR:OH	2.12	0.49
1:Dg:9:LEU:CD1	1:Dg:13:LYS:HE2	2.42	0.49
1:Dg:16:ALA:HA	4:Dp:3:GLY:HA3	1.93	0.49
6:Dl:169:ILE:HD13	6:Dl:252:VAL:HG21	1.95	0.49
6:Dl:169:ILE:HG13	6:Dl:171:LEU:HG	1.94	0.49
6:Dr:126:GLN:HA	6:Dr:129:LYS:NZ	2.28	0.49
8:Ew:415:ILE:O	8:Ew:419:LEU:HG	2.12	0.49
8:Ex:430:ARG:HG2	8:Ey:429:ASP:HB2	1.95	0.49
8:Ez:189:PHE:HE2	8:Fa:231:TYR:CE2	2.30	0.49
8:Ez:320:LYS:HZ3	8:Fa:198:TRP:CD1	2.31	0.49
9:Fb:106:ARG:NH2	9:Fb:789:PRO:HB3	2.28	0.49
9:Fb:147:LEU:HB2	9:Fb:453:ILE:HG23	1.93	0.49
9:Fb:597:LYS:HD3	9:Fb:597:LYS:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fb:915:ILE:O	9:Fb:919:THR:HG23	2.13	0.49
9:Fc:672:ILE:O	9:Fc:675:VAL:HG12	2.13	0.49
9:Fd:730:MET:C	9:Fd:730:MET:HE2	2.38	0.49
9:Fe:383:LYS:HG2	9:Fe:387:GLU:H	1.78	0.49
9:Fe:697:ILE:HD11	9:Fe:746:GLY:HA3	1.95	0.49
3:Ac:4:ILE:O	6:Ar:132:GLN:HB3	2.12	0.49
6:Bd:225:ASN:HD21	6:Bj:176:VAL:HG23	1.78	0.49
6:Bj:187:ALA:HB1	6:Bj:262:ASN:HB2	1.93	0.49
6:Bp:135:GLU:HA	6:Bp:138:GLU:OE1	2.13	0.49
2:Br:9:ARG:HD2	3:Bs:15:ASP:HA	1.95	0.49
6:Bv:111:ALA:O	6:Bv:115:MET:HG3	2.12	0.49
5:Cg:233:ARG:HG2	5:Cg:236:SER:OG	2.13	0.49
6:Ch:126:GLN:HB2	6:Cn:112:PHE:CE2	2.48	0.49
5:Cs:264:PHE:HB3	5:Cs:269:SER:HB3	1.94	0.49
6:Ct:128:VAL:CG2	6:Ct:132:GLN:HE21	2.23	0.49
6:Ct:220:LEU:HG	6:Ct:221:TYR:CE2	2.48	0.49
5:Cy:219:ARG:HD3	6:Df:148:PRO:O	2.13	0.49
6:Cz:126:GLN:HA	6:Cz:129:LYS:HD3	1.95	0.49
1:Ds:1:CYS:HA	4:Dv:2:PHE:CD1	2.47	0.49
6:Dx:225:ASN:ND2	6:Ed:176:VAL:H	2.08	0.49
7:Er:809:VAL:HB	7:Er:813:LYS:NZ	2.28	0.49
8:Ew:433:GLN:HE22	8:Fa:433:GLN:HE21	1.61	0.49
8:Ex:129:SER:HB2	8:Ex:137:THR:HG21	1.94	0.49
8:Ex:246:ASN:O	8:Ex:251:PRO:HD3	2.13	0.49
8:Ex:385:ASP:HB3	8:Ex:388:ALA:HB2	1.95	0.49
8:Fa:104:ASP:HA	8:Fa:109:ASN:ND2	2.27	0.49
8:Fa:173:PRO:HA	8:Fa:176:GLN:HB3	1.95	0.49
8:Fa:254:MET:N	8:Fa:254:MET:HE2	2.27	0.49
9:Fb:693:GLY:HA2	9:Fb:696:TYR:CD2	2.48	0.49
9:Fb:825:LEU:HA	9:Fb:828:VAL:HG23	1.95	0.49
9:Fd:49:LEU:HD12	9:Fd:50:HIS:H	1.78	0.49
9:Fd:641:TYR:CE1	9:Fd:645:LEU:HD21	2.48	0.49
9:Fe:261:LEU:HD11	9:Fe:265:ASN:ND2	2.23	0.49
9:Fe:695:MET:HB3	9:Fe:699:PHE:CE1	2.47	0.49
9:Fe:756:LEU:HA	9:Fe:759:MET:HE1	1.93	0.49
6:Al:135:GLU:HA	6:Al:138:GLU:HG3	1.94	0.49
6:Al:226:LEU:HD12	6:Al:239:LEU:HB2	1.94	0.49
6:Ar:181:PHE:CD1	6:Ar:254:LEU:HD11	2.38	0.49
5:Bc:268:ASP:OD1	6:Bd:152:THR:HG21	2.13	0.49
5:Ca:219:ARG:HD3	6:Ch:148:PRO:O	2.13	0.49
6:Ct:134:TYR:HE1	7:Eo:812:TRP:HB2	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ct:141:LYS:HZ3	7:Ep:811:ASP:HB2	1.78	0.49
6:Cz:129:LYS:HE2	6:Df:112:PHE:CE2	2.48	0.49
6:Dx:182:LEU:HD11	6:Dx:186:GLY:HA2	1.95	0.49
6:Ed:203:ASN:HB3	6:Ed:216:GLN:HG2	1.95	0.49
7:Es:807:GLN:HE21	7:Es:808:LEU:CD2	2.20	0.49
7:Ev:799:SER:HA	7:Ev:802:LEU:HD23	1.95	0.49
8:Ew:294:LYS:O	8:Ew:298:TYR:HB3	2.12	0.49
8:Ex:277:LEU:HD13	8:Ex:281:ARG:NH2	2.25	0.49
8:Ey:170:LEU:HD12	8:Ey:171:ASN:H	1.78	0.49
9:Fd:757:PRO:HG3	9:Fd:930:PHE:CE2	2.48	0.49
9:Fe:191:MET:HB3	9:Fe:233:PHE:HB2	1.95	0.49
9:Fe:339:MET:HE1	9:Fe:422:ALA:O	2.13	0.49
9:Ff:525:ASP:OD1	9:Ff:526:LYS:HD3	2.12	0.49
9:Ff:804:ILE:O	9:Ff:807:ASN:HB3	2.12	0.49
9:Ff:809:PHE:CD1	9:Ff:810:LEU:HD23	2.47	0.49
5:Bc:210:TYR:HB3	5:Bc:222:LEU:HD12	1.94	0.48
6:Bd:225:ASN:ND2	6:Bj:176:VAL:H	2.11	0.48
3:Bm:1:ARG:N	3:Bm:10:THR:HG23	2.28	0.48
6:Cb:194:TYR:HA	6:Cb:229:ARG:HH12	1.77	0.48
5:Cg:246:LEU:HD12	5:Cg:247:ILE:N	2.27	0.48
6:Cn:141:LYS:C	6:Cn:141:LYS:HD3	2.38	0.48
6:Df:181:PHE:HD1	6:Df:254:LEU:HD12	1.78	0.48
6:Ed:106:VAL:HG13	6:Ed:110:LYS:HZ2	1.77	0.48
6:Ed:141:LYS:NZ	7:Ev:811:ASP:HB2	2.28	0.48
7:Eh:822:GLU:OE1	7:Eh:822:GLU:HA	2.12	0.48
7:Em:787:GLU:O	7:Em:791:GLN:HB2	2.13	0.48
7:Eo:811:ASP:HB2	7:Eo:812:TRP:CE3	2.49	0.48
8:Ew:242:GLN:HE22	8:Ew:269:ALA:N	2.11	0.48
8:Ez:453:PRO:HA	9:Ff:619:PHE:HZ	1.78	0.48
8:Fa:381:ARG:HG3	8:Fa:382:ARG:CD	2.43	0.48
9:Fb:661:MET:HB3	9:Fb:665:GLN:NE2	2.29	0.48
9:Fb:686:ILE:O	9:Fb:689:LEU:HG	2.12	0.48
9:Fb:723:PHE:CE1	9:Ff:716:LEU:HA	2.48	0.48
9:Fb:811:ARG:HG2	9:Fb:815:MET:CE	2.43	0.48
9:Fc:827:TYR:HB3	9:Fc:831:TRP:CZ2	2.48	0.48
9:Fd:624:LEU:O	9:Fd:628:MET:HG2	2.12	0.48
9:Fd:709:ASN:HD21	9:Fe:597:LYS:N	2.02	0.48
9:Fe:644:PHE:HE1	9:Fe:718:PRO:HB2	1.78	0.48
9:Ff:921:MET:SD	9:Ff:921:MET:N	2.85	0.48
6:Al:110:LYS:HA	6:Al:113:LYS:HG2	1.94	0.48
6:Ax:189:TRP:CD1	6:Ax:230:LEU:HD12	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bj:190:PRO:O	6:Bj:231:ARG:HG2	2.13	0.48
5:Bo:219:ARG:NH1	5:Bo:233:ARG:HB3	2.28	0.48
6:Bp:221:TYR:HD2	6:Bp:244:GLY:HA3	1.77	0.48
5:Cg:212:ILE:HG21	5:Cg:215:VAL:HG23	1.95	0.48
5:Cs:219:ARG:HG2	6:Cz:148:PRO:HD2	1.95	0.48
5:Cy:212:ILE:HB	5:Cy:264:PHE:CD2	2.48	0.48
6:Df:138:GLU:HA	6:Df:141:LYS:HB3	1.95	0.48
6:Dl:141:LYS:HE3	7:Es:812:TRP:CD2	2.49	0.48
6:Dx:111:ALA:HB3	7:Es:797:ARG:HH21	1.78	0.48
8:Ew:286:GLN:HE22	8:Ew:287:VAL:HG13	1.77	0.48
8:Ez:420:ALA:HB2	8:Fa:399:TRP:CZ3	2.48	0.48
9:Fb:37:PHE:HE1	9:Fc:831:TRP:HB2	1.78	0.48
9:Fc:263:MET:HE2	9:Fc:279:CYS:O	2.14	0.48
9:Fc:531:GLN:HA	9:Fc:534:ILE:HD12	1.95	0.48
9:Fc:710:MET:HA	9:Fc:714:SER:OG	2.14	0.48
9:Fd:556:ARG:NH1	9:Fd:575:MET:HG3	2.27	0.48
9:Fd:816:ILE:O	9:Fd:820:ILE:HG13	2.14	0.48
9:Fe:322:SER:O	9:Fe:326:GLN:HG3	2.12	0.48
9:Fe:593:LEU:HD23	9:Fe:594:ILE:CD1	2.43	0.48
9:Ff:113:LEU:O	9:Ff:122:CYS:HB3	2.13	0.48
9:Ff:167:LEU:HD21	9:Ff:178:ALA:H	1.78	0.48
9:Ff:339:MET:CE	9:Ff:426:TYR:HB2	2.43	0.48
9:Ff:600:THR:HG22	9:Ff:648:PHE:HE2	1.77	0.48
5:Ae:250:LEU:HD12	5:Ae:251:GLN:HG3	1.94	0.48
6:Al:201:SER:C	6:Al:202:PHE:HD1	2.20	0.48
6:Bd:117:ARG:HH12	6:Bd:121:PRO:HB3	1.78	0.48
5:Bi:236:SER:H	5:Bi:244:VAL:HG12	1.78	0.48
6:Cb:238:MET:HG3	6:Ch:250:TYR:CB	2.44	0.48
6:Ch:196:LEU:HD11	6:Ch:202:PHE:HD2	1.78	0.48
1:Co:13:LYS:HD2	1:Co:13:LYS:C	2.38	0.48
6:Ct:134:TYR:CE1	7:Eo:812:TRP:HB2	2.47	0.48
6:Ct:242:ILE:HD12	6:Ct:243:PRO:HD2	1.94	0.48
5:De:211:TYR:O	5:De:223:ILE:HG22	2.12	0.48
5:Dw:219:ARG:HA	5:Dw:232:VAL:O	2.12	0.48
6:Dx:125:GLU:C	6:Dx:129:LYS:HZ2	2.21	0.48
7:Ee:809:VAL:HA	7:Ee:812:TRP:CE3	2.48	0.48
8:Ew:381:ARG:HG3	8:Ew:382:ARG:NH1	2.28	0.48
8:Ew:423:ASN:ND2	8:Ex:425:GLN:HE22	2.12	0.48
8:Ew:424:TYR:CZ	8:Ex:379:ALA:O	2.66	0.48
8:Ex:239:LEU:H	8:Ex:239:LEU:HD12	1.78	0.48
8:Ey:174:VAL:HG21	8:Ez:246:ASN:ND2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Fa:187:TYR:HA	8:Fa:206:TYR:CG	2.48	0.48
9:Fb:149:TYR:HB2	9:Ff:59:ASN:HD22	1.78	0.48
9:Fb:187:GLY:HA2	9:Fb:496:PHE:HE2	1.76	0.48
9:Fb:761:PHE:HE1	9:Fb:815:MET:HG3	1.78	0.48
9:Fc:588:LEU:HB3	9:Fc:665:GLN:CD	2.38	0.48
9:Fd:369:ASP:HB3	9:Fd:375:LYS:HA	1.95	0.48
9:Fd:469:PHE:O	9:Fd:469:PHE:CD1	2.67	0.48
9:Fd:732:MET:O	9:Fd:736:MET:CB	2.60	0.48
9:Fd:743:VAL:CG2	9:Fd:747:PHE:HE1	2.23	0.48
9:Fe:907:GLY:O	9:Fe:910:ALA:HB3	2.13	0.48
9:Ff:778:ALA:O	9:Ff:782:VAL:HG23	2.13	0.48
6:Af:125:GLU:O	6:Af:129:LYS:HG3	2.14	0.48
6:Ar:132:GLN:HA	6:Ar:135:GLU:OE2	2.13	0.48
6:Bj:219:LYS:HD3	6:Bj:222:ASN:ND2	2.28	0.48
5:Bo:212:ILE:HB	5:Bo:264:PHE:CD1	2.48	0.48
5:Bo:246:LEU:HD12	5:Bo:247:ILE:H	1.77	0.48
6:Cn:135:GLU:HA	6:Cn:138:GLU:OE2	2.13	0.48
6:Cn:166:PRO:HG3	6:Ct:250:TYR:CD2	2.49	0.48
6:Dx:190:PRO:HA	6:Dx:211:ASN:HB3	1.95	0.48
6:Ed:203:ASN:HD21	7:Ev:818:GLN:HE22	1.61	0.48
7:Eg:807:GLN:CD	7:Eg:807:GLN:H	2.20	0.48
8:Ew:338:ALA:HB2	8:Ex:243:LEU:HD22	1.94	0.48
8:Ex:327:SER:OG	8:Ey:211:MET:HE1	2.13	0.48
8:Ey:103:THR:H	8:Ez:253:LEU:HD21	1.77	0.48
8:Fa:359:MET:SD	8:Fa:369:THR:HG22	2.53	0.48
8:Fa:401:LYS:HD2	8:Fa:401:LYS:N	2.28	0.48
9:Fb:414:PHE:HB3	9:Fb:418:GLU:OE1	2.13	0.48
9:Fb:596:PHE:CE2	9:Fb:656:VAL:HG21	2.48	0.48
9:Fb:655:ILE:HG22	9:Fb:659:PHE:CE1	2.49	0.48
9:Fb:944:ILE:HD11	9:Ff:781:ILE:HD12	1.94	0.48
9:Fc:905:TRP:HB3	9:Fc:909:TYR:CE2	2.48	0.48
9:Fd:693:GLY:O	9:Fd:697:ILE:HG23	2.14	0.48
9:Fe:713:VAL:HG11	9:Ff:596:PHE:HZ	1.78	0.48
9:Ff:743:VAL:HG22	9:Ff:747:PHE:CZ	2.49	0.48
1:Aa:12:HIS:CE1	3:Ac:9:TYR:HB2	2.48	0.48
3:Ao:4:ILE:O	6:Bd:132:GLN:HB2	2.14	0.48
5:Aq:209:ILE:HA	5:Aq:241:TYR:OH	2.14	0.48
6:Ax:121:PRO:HB2	7:Eg:801:MET:HE1	1.96	0.48
1:Ay:16:ALA:HA	4:Bh:3:GLY:HA3	1.94	0.48
5:Bi:212:ILE:HG21	5:Bi:215:VAL:HG23	1.96	0.48
6:Bp:113:LYS:HZ2	6:Bp:114:ASP:HA	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bp:190:PRO:O	6:Bp:231:ARG:HG2	2.12	0.48
6:Bv:115:MET:HA	6:Bv:118:ASN:ND2	2.28	0.48
6:Cz:172:SER:HB2	6:Cz:248:VAL:HB	1.95	0.48
6:Dx:106:VAL:HA	6:Dx:109:LYS:HZ1	1.78	0.48
6:Dx:126:GLN:O	6:Dx:130:LEU:HG	2.14	0.48
2:Dz:4:MET:HG2	5:Ec:250:LEU:HD12	1.95	0.48
7:Er:801:MET:C	7:Er:801:MET:SD	2.96	0.48
7:Es:770:SER:O	7:Es:774:LEU:HD22	2.13	0.48
8:Ew:271:SER:H	8:Ew:274:GLN:HB2	1.78	0.48
8:Ex:75:GLN:O	8:Ex:78:GLN:HG3	2.14	0.48
8:Ex:252:LEU:HD12	8:Ex:252:LEU:O	2.13	0.48
8:Ey:399:TRP:O	8:Ey:403:ILE:HG12	2.12	0.48
9:Fc:643:PHE:O	9:Fc:647:ILE:HG13	2.13	0.48
9:Fd:65:ASN:HA	9:Fd:68:VAL:HG12	1.95	0.48
9:Fd:74:ILE:O	9:Fd:77:MET:HE3	2.12	0.48
9:Fd:256:PRO:HG2	9:Fd:259:PHE:CE2	2.49	0.48
9:Fd:685:PRO:HD2	9:Fd:827:TYR:CE2	2.49	0.48
9:Fd:727:LEU:HA	9:Fd:730:MET:SD	2.53	0.48
9:Ff:182:LEU:HD23	9:Ff:571:VAL:HG21	1.96	0.48
9:Ff:238:ASN:O	9:Ff:242:LYS:HD3	2.13	0.48
9:Ff:241:LYS:O	9:Ff:241:LYS:HD3	2.13	0.48
9:Ff:668:LYS:O	9:Ff:672:ILE:HG12	2.13	0.48
9:Ff:811:ARG:NH2	9:Ff:937:PRO:HB2	2.28	0.48
6:Af:153:ALA:HB1	6:Af:251:ARG:HG2	1.96	0.48
5:Ak:253:ARG:O	5:Ak:254:ILE:HD13	2.12	0.48
6:Al:115:MET:SD	7:Ev:802:LEU:HD13	2.52	0.48
6:Ax:111:ALA:HB3	7:Ef:797:ARG:HD3	1.95	0.48
6:Ax:189:TRP:CG	6:Ax:230:LEU:HD12	2.49	0.48
1:Cc:1:CYS:HA	2:Cd:9:ARG:CZ	2.43	0.48
1:Cc:1:CYS:N	3:Ce:16:ASP:HB2	2.28	0.48
6:Dl:126:GLN:O	6:Dl:129:LYS:HG3	2.13	0.48
6:Dl:179:LEU:O	6:Dl:212:THR:HA	2.14	0.48
6:Dl:183:ASP:HB3	6:Dl:189:TRP:CE3	2.49	0.48
1:Dm:1:CYS:SG	4:Dp:2:PHE:HB3	2.53	0.48
5:Dq:253:ARG:HD2	5:Dq:255:LEU:HG	1.95	0.48
6:Dx:196:LEU:HD22	6:Dx:199:PRO:HA	1.96	0.48
5:Ec:213:GLN:HE21	5:Ec:221:TRP:HB3	1.77	0.48
7:Eg:809:VAL:HG22	7:Eg:813:LYS:NZ	2.28	0.48
8:Ew:277:LEU:HA	8:Ew:280:ILE:HG22	1.94	0.48
8:Ew:297:ALA:O	8:Ew:301:LEU:HG	2.13	0.48
8:Ey:42:TYR:HA	8:Ey:45:ASN:ND2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ey:93:ALA:HB3	8:Ey:172:ASP:HB2	1.96	0.48
8:Ez:419:LEU:HA	8:Ez:422:ILE:HG12	1.96	0.48
9:Fb:468:PHE:CE2	9:Fb:823:ILE:HD13	2.49	0.48
9:Fe:90:GLU:HG3	9:Fe:92:GLN:H	1.78	0.48
9:Fe:113:LEU:HD12	9:Fe:124:MET:HB2	1.94	0.48
9:Fe:670:ILE:HA	9:Fe:673:VAL:HG22	1.96	0.48
7:Fg:16:ARG:O	7:Fg:20:ILE:HG12	2.13	0.48
7:Fj:35:GLY:O	7:Fj:39:ILE:HG13	2.13	0.48
6:Af:112:PHE:O	6:Af:115:MET:HB2	2.14	0.48
6:Ax:134:TYR:HA	6:Bd:120:TYR:HE1	1.78	0.48
6:Bd:145:PRO:HG3	6:Bj:131:LYS:HZ3	1.78	0.48
6:Ch:115:MET:HE2	7:El:802:LEU:CD2	2.43	0.48
6:Ct:115:MET:HE1	7:En:801:MET:CB	2.43	0.48
5:Cy:212:ILE:HD11	5:Cy:262:ILE:HG22	1.96	0.48
6:Cz:151:PRO:HA	6:Cz:248:VAL:HG13	1.95	0.48
6:Df:130:LEU:HA	6:Df:133:ILE:HD12	1.96	0.48
8:Ew:35:ASN:CG	8:Fa:36:THR:HB	2.39	0.48
8:Ey:174:VAL:HG21	8:Ez:246:ASN:HD22	1.78	0.48
8:Ez:334:ARG:HG3	8:Fa:282:TYR:HE2	1.78	0.48
9:Fb:467:TYR:O	9:Fb:471:LEU:HD13	2.14	0.48
9:Fb:665:GLN:HA	9:Fb:668:LYS:HE3	1.95	0.48
9:Fd:332:ARG:O	9:Fd:336:ILE:HG13	2.13	0.48
9:Fd:469:PHE:O	9:Fd:469:PHE:HD1	1.97	0.48
9:Fd:777:VAL:O	9:Fd:780:PRO:HD2	2.14	0.48
9:Fe:185:LEU:O	9:Fe:189:ILE:HG12	2.13	0.48
9:Fe:825:LEU:HA	9:Fe:828:VAL:HG22	1.96	0.48
9:Fe:909:TYR:HA	9:Fe:912:PHE:CE2	2.49	0.48
9:Ff:804:ILE:HA	9:Ff:807:ASN:HB3	1.94	0.48
6:Ar:109:LYS:HD2	6:Ar:109:LYS:C	2.39	0.48
3:Bg:13:LYS:HD3	3:Bg:13:LYS:HA	1.65	0.48
6:Bj:230:LEU:HB3	6:Bj:233:LEU:HD13	1.94	0.48
1:Bk:6:LEU:O	1:Bk:10:GLU:HG3	2.13	0.48
5:Bo:248:ASP:HB3	5:Bo:253:ARG:HB3	1.96	0.48
6:Bp:173:GLN:NE2	7:Ek:815:VAL:HG22	2.26	0.48
6:Cb:115:MET:HG2	6:Cb:119:LEU:HD12	1.95	0.48
6:Ch:176:VAL:HG23	6:Ch:214:MET:HB2	1.95	0.48
6:Ct:171:LEU:HD11	6:Ct:217:ALA:N	2.28	0.48
7:Ef:768:ALA:O	7:Ef:772:GLU:HG2	2.13	0.48
7:El:819:VAL:C	7:El:820:TYR:HD1	2.21	0.48
7:Eq:792:GLN:HA	7:Eq:795:GLN:OE1	2.14	0.48
8:Ew:75:GLN:OE1	8:Ex:401:LYS:HE2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ew:104:ASP:HA	8:Ew:109:ASN:ND2	2.28	0.48
8:Ew:352:SER:HA	8:Ew:355:LEU:HG	1.96	0.48
8:Ew:414:GLU:O	8:Ew:417:ILE:HG13	2.13	0.48
8:Ey:105:LYS:NZ	8:Ez:367:ASN:HA	2.29	0.48
8:Ez:452:GLN:HG2	8:Fa:336:TYR:CE2	2.49	0.48
8:Fa:351:LEU:HD12	8:Fa:355:LEU:HD21	1.94	0.48
9:Fb:71:LEU:HD23	9:Fb:74:ILE:HD11	1.95	0.48
9:Fd:82:VAL:HA	9:Fd:85:MET:HG3	1.95	0.48
9:Fd:106:ARG:HH11	9:Fd:789:PRO:HA	1.79	0.48
9:Fd:128:PHE:O	9:Fd:132:ILE:HG12	2.14	0.48
9:Fd:151:ASN:HB3	9:Fd:152:ARG:NH1	2.29	0.48
9:Fd:321:THR:HG23	9:Fd:324:GLN:H	1.77	0.48
9:Fd:354:ASP:OD2	9:Fd:356:ALA:HB3	2.14	0.48
9:Fd:812:PRO:HA	9:Fd:815:MET:HG2	1.94	0.48
9:Fe:596:PHE:CE2	9:Fe:652:ILE:HG22	2.49	0.48
9:Fe:728:ILE:HD12	9:Ff:730:MET:HB3	1.95	0.48
9:Fe:755:VAL:HG22	9:Fe:759:MET:SD	2.54	0.48
9:Fe:911:PHE:CD1	9:Fe:911:PHE:C	2.92	0.48
9:Ff:56:ILE:C	9:Ff:60:MET:HE3	2.39	0.48
9:Ff:732:MET:O	9:Ff:736:MET:HB3	2.13	0.48
5:Ae:264:PHE:HB3	5:Ae:269:SER:HB3	1.95	0.48
5:Bc:230:LEU:HA	6:Bd:165:THR:HG21	1.96	0.48
5:Bc:234:GLU:OE2	6:Bj:147:THR:HG21	2.14	0.48
6:Bd:115:MET:HA	6:Bd:118:ASN:OD1	2.14	0.48
6:Bv:168:VAL:HG23	6:Bv:242:ILE:HD13	1.95	0.48
6:Cb:167:PRO:HD2	6:Cb:238:MET:O	2.14	0.48
6:Cb:205:GLN:HB2	6:Cb:214:MET:SD	2.54	0.48
5:Cg:232:VAL:HG23	5:Cg:236:SER:HB2	1.96	0.48
6:Cz:250:TYR:C	6:Cz:251:ARG:HG2	2.38	0.48
6:Df:144:THR:HG23	6:Df:148:PRO:HG3	1.94	0.48
6:Dr:150:LYS:N	6:Dr:247:ALA:HA	2.29	0.48
6:Dr:205:GLN:HB2	6:Dr:214:MET:SD	2.54	0.48
6:Dr:219:LYS:NZ	6:Dr:221:TYR:H	2.05	0.48
7:Eh:806:THR:HA	7:Eh:809:VAL:HG12	1.96	0.48
7:El:807:GLN:HG3	7:El:808:LEU:HD23	1.95	0.48
8:Ex:342:VAL:HG11	8:Ex:442:ILE:HD13	1.95	0.48
8:Fa:141:LEU:HB3	8:Fa:213:ASN:HB3	1.94	0.48
9:Fb:24:LEU:HD23	7:Fi:40:ARG:NH1	2.29	0.48
9:Fb:617:ILE:HG22	9:Fb:618:LEU:H	1.79	0.48
9:Fb:648:PHE:CZ	9:Ff:716:LEU:HD11	2.49	0.48
9:Fb:804:ILE:O	9:Fb:808:VAL:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fc:338:GLN:NE2	9:Fc:425:ASP:HB2	2.29	0.48
9:Fc:346:VAL:HG13	9:Fc:350:MET:HE3	1.96	0.48
9:Fc:462:ILE:HA	9:Fc:761:PHE:HZ	1.78	0.48
9:Fc:548:PRO:HD3	9:Fc:568:TYR:CD2	2.49	0.48
9:Fc:721:GLY:HA2	9:Fc:724:ILE:HG12	1.95	0.48
9:Fc:842:SER:HA	9:Fc:845:GLN:HE21	1.79	0.48
9:Fd:628:MET:HE2	9:Fd:628:MET:N	2.29	0.48
9:Fd:732:MET:HA	9:Fd:735:LEU:HD23	1.96	0.48
9:Fd:762:THR:CG2	9:Fd:766:PHE:HE2	2.25	0.48
9:Ff:528:ILE:HG22	9:Ff:538:PRO:HD3	1.95	0.48
9:Ff:936:LEU:O	9:Ff:940:VAL:HG13	2.14	0.48
6:Al:158:VAL:O	6:Al:257:GLN:HG3	2.13	0.48
6:Al:189:TRP:CH2	6:Al:233:LEU:HD21	2.48	0.48
6:Ax:221:TYR:HA	6:Ax:243:PRO:HG2	1.96	0.48
6:Cb:132:GLN:NE2	6:Cb:135:GLU:HG3	2.28	0.48
3:Ck:2:VAL:HG21	6:Cz:129:LYS:HD2	1.95	0.48
5:Cm:253:ARG:NH1	5:Cm:253:ARG:HB2	2.29	0.48
6:Cn:151:PRO:HA	6:Cn:248:VAL:HG13	1.96	0.48
6:Ct:111:ALA:HB3	7:En:797:ARG:NH2	2.28	0.48
6:Ct:149:PRO:HA	6:Ct:246:LYS:HD2	1.95	0.48
6:Cz:109:LYS:N	6:Cz:109:LYS:HD2	2.29	0.48
6:Cz:125:GLU:O	6:Cz:128:VAL:HG22	2.13	0.48
8:Ew:78:GLN:HE21	8:Ex:383:LEU:CG	2.27	0.48
8:Ew:278:ASN:HA	8:Ew:281:ARG:HD2	1.96	0.48
8:Ew:421:GLU:HG3	8:Fa:423:ASN:ND2	2.28	0.48
8:Ex:295:LEU:O	8:Ex:299:SER:CB	2.62	0.48
8:Ez:408:PRO:HA	8:Ez:411:VAL:HG22	1.93	0.48
9:Fb:468:PHE:O	9:Fb:472:VAL:HG23	2.13	0.48
9:Fb:643:PHE:CD2	9:Fc:605:MET:HE1	2.49	0.48
9:Fb:936:LEU:HA	9:Fb:939:LYS:HD3	1.94	0.48
9:Fc:353:ASN:O	9:Fc:375:LYS:HE2	2.14	0.48
9:Fc:378:PHE:HB3	9:Fc:414:PHE:CD2	2.49	0.48
9:Fc:776:MET:HE2	9:Fc:776:MET:C	2.39	0.48
9:Fd:563:LEU:HD12	9:Fd:563:LEU:O	2.13	0.48
9:Fd:589:THR:HG23	9:Fd:590:PHE:HD2	1.78	0.48
9:Fd:762:THR:HG23	9:Fd:766:PHE:CE2	2.49	0.48
9:Fe:71:LEU:O	9:Fe:75:ILE:HG12	2.14	0.48
9:Fe:266:PHE:H	9:Fe:276:ASN:ND2	2.11	0.48
7:Fg:36:PHE:CD1	7:Fg:36:PHE:C	2.92	0.48
6:Ar:171:LEU:HD13	6:Ar:202:PHE:CZ	2.49	0.47
5:Aw:210:TYR:CD2	5:Aw:238:ILE:HD11	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bd:117:ARG:NH1	6:Bd:118:ASN:HA	2.28	0.47
5:Bi:217:PRO:HG2	6:Bp:143:ALA:HB1	1.96	0.47
3:Bm:2:VAL:HG21	6:Cb:129:LYS:HG2	1.96	0.47
6:Bp:126:GLN:HB3	6:Bv:112:PHE:CE1	2.49	0.47
6:Bp:194:TYR:CB	6:Bp:228:VAL:HG12	2.42	0.47
3:By:2:VAL:HG21	6:Cn:129:LYS:HG2	1.96	0.47
2:Cd:4:MET:HB2	4:Cf:2:PHE:CZ	2.49	0.47
6:Dl:126:GLN:HA	6:Dl:129:LYS:HE3	1.95	0.47
6:Dr:195:ASP:OD1	7:Eu:820:TYR:HA	2.14	0.47
1:Ds:3:ASP:HB3	3:Du:14:TYR:HD2	1.79	0.47
6:Ed:122:LEU:HB3	6:Ed:126:GLN:HB3	1.94	0.47
7:En:798:THR:O	7:En:802:LEU:HG	2.13	0.47
7:Er:793:GLU:HA	7:Er:796:GLN:NE2	2.29	0.47
8:Ew:389:SER:HB3	8:Ew:394:GLN:OE1	2.14	0.47
8:Ey:91:VAL:HG11	8:Ey:116:ALA:HB1	1.96	0.47
8:Ey:430:ARG:HH21	8:Ez:425:GLN:HA	1.79	0.47
8:Ez:179:PHE:HD2	8:Fa:240:ILE:HD13	1.77	0.47
8:Ez:389:SER:HB3	8:Ez:394:GLN:OE1	2.14	0.47
8:Ez:419:LEU:HD13	8:Fa:419:LEU:HB3	1.95	0.47
8:Fa:340:THR:O	8:Fa:344:VAL:HG23	2.14	0.47
8:Fa:349:TYR:O	8:Fa:353:LYS:HG3	2.14	0.47
9:Fb:239:PHE:HE2	9:Fb:340:TYR:HB2	1.79	0.47
9:Fb:348:GLN:HA	9:Fb:351:VAL:HG12	1.96	0.47
9:Fb:911:PHE:O	9:Fb:915:ILE:HG22	2.13	0.47
9:Fc:694:THR:HA	9:Fc:697:ILE:HG12	1.96	0.47
9:Fd:140:ASP:HA	9:Fd:143:TRP:HE3	1.78	0.47
9:Fd:278:ILE:CD1	9:Fd:516:LEU:HD11	2.44	0.47
9:Fd:663:PRO:O	9:Fd:667:MET:HE3	2.14	0.47
9:Fd:924:ILE:HA	9:Fd:927:GLN:HB2	1.96	0.47
9:Fe:641:TYR:O	9:Fe:645:LEU:HG	2.13	0.47
9:Fe:766:PHE:HZ	9:Ff:929:ALA:HA	1.79	0.47
9:Ff:110:GLY:HA3	9:Ff:787:THR:HG23	1.96	0.47
9:Ff:490:GLY:O	9:Ff:493:LYS:HG2	2.13	0.47
9:Ff:534:ILE:HA	9:Ff:567:VAL:HG22	1.95	0.47
7:Fi:30:ILE:HA	7:Fi:33:VAL:HG22	1.96	0.47
6:Al:170:ARG:HG2	6:Al:245:GLN:OE1	2.14	0.47
6:Ar:191:ILE:HB	6:Ar:206:TRP:CZ2	2.48	0.47
6:Ax:182:LEU:HD12	6:Ax:183:ASP:N	2.29	0.47
6:Ax:190:PRO:HA	6:Ax:211:ASN:HB3	1.96	0.47
6:Cb:115:MET:CG	6:Cb:118:ASN:HB2	2.43	0.47
6:Cn:129:LYS:O	6:Cn:133:ILE:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Cn:134:TYR:O	6:Cn:138:GLU:HG3	2.13	0.47
2:Dt:4:MET:HE2	2:Dt:4:MET:HA	1.96	0.47
5:Dw:219:ARG:H	6:Ed:148:PRO:HD2	1.79	0.47
6:Dx:167:PRO:HG2	6:Dx:239:LEU:HD12	1.96	0.47
6:Ed:151:PRO:HA	6:Ed:248:VAL:HG13	1.97	0.47
6:Ed:202:PHE:HZ	6:Ed:243:PRO:HD3	1.79	0.47
7:Ee:795:GLN:HA	7:Ee:798:THR:OG1	2.14	0.47
7:Ek:809:VAL:HA	7:Ek:812:TRP:HE3	1.78	0.47
8:Ew:280:ILE:HG21	8:Ew:351:LEU:HD22	1.96	0.47
8:Ew:382:ARG:HH11	8:Ew:382:ARG:HG3	1.79	0.47
8:Ey:56:GLN:HB2	8:Ey:59:LYS:HG2	1.97	0.47
8:Ez:82:TYR:HB2	8:Fa:383:LEU:HD21	1.95	0.47
8:Ez:448:LEU:HB2	8:Fa:336:TYR:HE1	1.79	0.47
9:Fb:425:ASP:O	9:Fb:429:ILE:HG23	2.14	0.47
9:Fb:516:LEU:HA	9:Fb:519:TRP:CZ3	2.50	0.47
9:Fb:609:ASP:HB3	9:Fb:626:ARG:HH22	1.79	0.47
9:Fb:670:ILE:HG21	9:Fb:742:MET:HE1	1.96	0.47
9:Fb:692:MET:O	9:Fb:696:TYR:HD2	1.97	0.47
9:Fb:732:MET:SD	9:Fb:733:PRO:HD3	2.54	0.47
9:Fc:419:PHE:O	9:Fc:423:ILE:HG12	2.15	0.47
9:Fd:104:PRO:HG3	7:Fk:20:ILE:HD11	1.96	0.47
9:Fd:736:MET:O	9:Fd:736:MET:HE3	2.13	0.47
9:Fd:804:ILE:O	9:Fd:808:VAL:HG22	2.13	0.47
9:Fe:516:LEU:HA	9:Fe:519:TRP:CZ3	2.48	0.47
9:Fe:640:VAL:HG12	9:Fe:644:PHE:HE2	1.79	0.47
9:Fe:658:ALA:O	9:Fe:662:ILE:HG22	2.15	0.47
9:Fe:729:MET:O	9:Fe:732:MET:HG3	2.14	0.47
9:Ff:321:THR:HG23	9:Ff:324:GLN:H	1.79	0.47
9:Ff:761:PHE:HA	9:Ff:933:ILE:CD1	2.44	0.47
6:Al:238:MET:HG3	6:Ar:250:TYR:HB3	1.96	0.47
6:Ar:171:LEU:HD22	6:Ar:202:PHE:CE2	2.50	0.47
6:Ar:221:TYR:CZ	6:Ax:139:TYR:HA	2.49	0.47
6:Ar:236:PRO:HD2	6:Ax:251:ARG:HE	1.78	0.47
1:Be:16:ALA:HB1	4:Bn:3:GLY:H	1.78	0.47
6:Bp:145:PRO:HD3	6:Bv:131:LYS:HE2	1.96	0.47
6:Bv:115:MET:HE1	7:Ej:802:LEU:HA	1.96	0.47
6:Cb:196:LEU:HD11	6:Cb:199:PRO:HB3	1.96	0.47
6:Cn:130:LEU:HA	6:Cn:133:ILE:HD11	1.95	0.47
6:Cn:238:MET:H	6:Ct:251:ARG:HH12	1.60	0.47
6:Ct:227:ALA:HA	6:Cz:251:ARG:NH2	2.29	0.47
6:Dl:190:PRO:O	6:Dl:230:LEU:HD22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dq:207:ARG:HH21	5:Dq:240:GLY:HA3	1.79	0.47
5:Dq:215:VAL:HG11	5:Dq:252:GLY:HA2	1.96	0.47
6:Dx:132:GLN:O	6:Dx:135:GLU:HG2	2.14	0.47
6:Ed:122:LEU:HD23	7:Eu:801:MET:HE3	1.96	0.47
7:Ei:801:MET:SD	7:Ei:801:MET:C	2.98	0.47
8:Ew:187:TYR:HB3	8:Ew:206:TYR:CE2	2.50	0.47
8:Ew:189:PHE:CD2	8:Ew:295:LEU:HD23	2.49	0.47
8:Ex:457:PHE:HZ	8:Ey:293:PRO:HB3	1.80	0.47
8:Ey:359:MET:HB2	8:Ey:367:ASN:HB2	1.96	0.47
9:Fb:176:GLY:HA3	9:Fb:492:ASP:HB2	1.96	0.47
9:Fc:98:TRP:CD1	9:Fc:103:ILE:HD13	2.49	0.47
9:Fc:594:ILE:HG13	9:Fc:905:TRP:CH2	2.49	0.47
9:Fd:692:MET:O	9:Fd:696:TYR:CB	2.62	0.47
9:Fd:909:TYR:HA	9:Fd:912:PHE:CE2	2.49	0.47
9:Fe:242:LYS:HG3	9:Fe:261:LEU:HD11	1.95	0.47
6:Af:125:GLU:OE2	6:Af:129:LYS:HD3	2.13	0.47
5:Ak:263:LYS:HA	5:Ak:263:LYS:HE2	1.96	0.47
1:Am:2:THR:HG21	5:Aq:255:LEU:HD11	1.96	0.47
2:Bf:2:VAL:HG13	3:Bg:1:ARG:HD2	1.95	0.47
6:Ct:189:TRP:CG	6:Ct:230:LEU:HD12	2.49	0.47
6:Dr:125:GLU:HA	6:Dr:128:VAL:HG22	1.97	0.47
6:Ed:122:LEU:HB3	6:Ed:126:GLN:CB	2.43	0.47
7:Eh:781:GLN:O	7:Eh:785:LEU:HG	2.15	0.47
8:Ew:86:LEU:HD22	8:Ew:115:LEU:HD23	1.95	0.47
8:Ew:233:TYR:HB3	8:Ew:234:LYS:HZ2	1.78	0.47
8:Ew:298:TYR:HE2	8:Ex:221:ALA:HA	1.78	0.47
8:Ex:80:TYR:HB2	8:Ex:374:ASN:OD1	2.14	0.47
8:Ey:219:PRO:HG2	8:Ey:230:PHE:HB3	1.96	0.47
8:Ey:444:LEU:O	8:Ey:448:LEU:HG	2.13	0.47
8:Ez:189:PHE:HE1	8:Ez:293:PRO:O	1.98	0.47
9:Fb:661:MET:HB3	9:Fb:665:GLN:HG3	1.95	0.47
9:Fc:420:LEU:HD12	9:Fc:421:GLY:N	2.30	0.47
9:Fd:696:TYR:CE1	9:Fd:745:ILE:HB	2.37	0.47
9:Fd:704:TRP:HE3	9:Fd:707:LEU:HD12	1.79	0.47
9:Fe:354:ASP:OD1	9:Fe:357:PHE:HD2	1.98	0.47
9:Fe:604:TYR:HD1	9:Fe:605:MET:N	2.12	0.47
9:Fe:664:LEU:O	9:Fe:668:LYS:HB3	2.14	0.47
9:Fe:672:ILE:HA	9:Fe:675:VAL:HG12	1.96	0.47
9:Ff:624:LEU:HA	9:Ff:627:MET:CE	2.44	0.47
6:Af:205:GLN:HE22	6:Af:216:GLN:HE22	1.62	0.47
6:Al:149:PRO:CB	6:Al:248:VAL:HG13	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Aq:210:TYR:HA	5:Aq:224:GLY:HA2	1.95	0.47
5:Bi:222:LEU:HD11	5:Bi:262:ILE:HG21	1.97	0.47
6:Bp:160:LEU:HD12	6:Bp:160:LEU:O	2.14	0.47
5:Bu:262:ILE:HD12	5:Bu:263:LYS:H	1.79	0.47
6:Bv:106:VAL:HA	6:Bv:109:LYS:HZ3	1.80	0.47
6:Ct:115:MET:HE2	7:En:798:THR:HA	1.95	0.47
6:Cz:209:THR:HG22	7:Er:824:THR:HG21	1.96	0.47
6:Dx:106:VAL:O	6:Dx:110:LYS:HG2	2.14	0.47
7:Ef:772:GLU:O	7:Ef:775:GLN:HG2	2.14	0.47
7:Eh:780:LYS:HD2	7:Eh:784:GLN:HG2	1.95	0.47
7:Eu:776:ALA:O	7:Eu:779:GLN:HG2	2.15	0.47
7:Eu:784:GLN:O	7:Eu:788:GLN:HG2	2.14	0.47
8:Ex:40:VAL:O	8:Ex:43:LEU:HG	2.14	0.47
8:Ey:334:ARG:HD2	8:Ez:282:TYR:CE1	2.49	0.47
8:Ez:268:THR:CG2	8:Ez:270:LYS:HZ1	2.28	0.47
9:Fb:331:SER:O	9:Fb:334:ILE:HG22	2.14	0.47
9:Fb:332:ARG:O	9:Fb:336:ILE:HG12	2.15	0.47
9:Fb:655:ILE:HG22	9:Fb:659:PHE:HE1	1.79	0.47
9:Fc:188:GLN:HA	9:Fc:191:MET:HG2	1.95	0.47
9:Fc:346:VAL:O	9:Fc:350:MET:HG2	2.14	0.47
9:Fc:399:TRP:CE3	9:Fc:416:GLY:HA3	2.50	0.47
9:Fc:465:GLY:H	9:Fc:761:PHE:HE2	1.61	0.47
9:Ff:391:GLU:O	9:Ff:394:GLN:HG2	2.14	0.47
7:Fi:35:GLY:O	7:Fi:39:ILE:HG13	2.14	0.47
6:Ax:252:VAL:HG12	6:Ax:254:LEU:HD23	1.95	0.47
3:Bm:4:ILE:HA	6:Cb:132:GLN:HG2	1.97	0.47
6:Bp:111:ALA:HA	6:Bp:114:ASP:OD1	2.15	0.47
6:Bp:226:LEU:HD12	6:Bp:227:ALA:N	2.30	0.47
5:Bu:219:ARG:H	6:Cb:148:PRO:HD2	1.79	0.47
6:Bv:113:LYS:O	6:Bv:116:THR:HG22	2.15	0.47
6:Cb:107:ILE:HG22	7:Ek:797:ARG:HD3	1.96	0.47
5:Cm:210:TYR:HD2	5:Cm:224:GLY:HA3	1.79	0.47
1:Co:3:ASP:O	1:Co:6:LEU:HD12	2.15	0.47
6:Cz:107:ILE:HG22	7:Eo:797:ARG:HD3	1.96	0.47
5:Dk:219:ARG:HG2	6:Dr:148:PRO:HD2	1.96	0.47
6:Dl:192:ALA:HB3	6:Dl:229:ARG:HG3	1.97	0.47
6:Dr:225:ASN:HD21	6:Dx:176:VAL:H	1.61	0.47
6:Ed:241:LEU:H	6:Ed:241:LEU:HD12	1.80	0.47
7:Ef:809:VAL:HA	7:Ef:812:TRP:CD1	2.49	0.47
8:Ex:99:MET:HB2	8:Ex:116:ALA:HB1	1.96	0.47
8:Ey:188:SER:HB2	8:Ey:294:LYS:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ey:343:GLY:O	8:Ey:347:LEU:HG	2.15	0.47
8:Ey:430:ARG:HH22	8:Ez:428:LEU:HD12	1.78	0.47
8:Ez:35:ASN:O	8:Ez:39:LEU:HD23	2.14	0.47
8:Ez:284:SER:HB2	8:Ez:344:VAL:HG12	1.95	0.47
8:Ez:426:MET:C	8:Ez:426:MET:HE2	2.38	0.47
9:Fc:33:LEU:HA	9:Fc:36:VAL:HG12	1.97	0.47
9:Fc:222:MET:HE1	9:Fc:519:TRP:HD1	1.80	0.47
9:Fc:693:GLY:HA2	9:Fc:696:TYR:CE2	2.49	0.47
9:Fc:825:LEU:HD12	9:Fc:929:ALA:CB	2.39	0.47
9:Fe:378:PHE:CE2	9:Fe:565:SER:HA	2.49	0.47
9:Fe:628:MET:HA	9:Fe:628:MET:HE2	1.96	0.47
9:Fe:837:PHE:CE1	9:Fe:841:ILE:HG21	2.50	0.47
9:Ff:809:PHE:HD1	9:Ff:810:LEU:HD23	1.80	0.47
9:Ff:924:ILE:O	9:Ff:927:GLN:HG2	2.15	0.47
6:Af:238:MET:N	6:Al:251:ARG:HH12	2.13	0.47
1:Ag:9:LEU:HD12	1:Ag:10:GLU:N	2.30	0.47
6:Ar:115:MET:O	6:Ar:119:LEU:HD12	2.13	0.47
6:Ax:109:LYS:N	6:Ax:109:LYS:HD3	2.30	0.47
6:Ax:191:ILE:HD12	6:Ax:206:TRP:NE1	2.30	0.47
6:Ax:208:LYS:HE2	7:Ei:823:GLY:HA2	1.97	0.47
6:Bp:186:GLY:N	6:Bp:255:ARG:HH12	2.12	0.47
1:Cc:9:LEU:HD13	2:Cd:2:VAL:HG23	1.96	0.47
6:Ch:235:THR:HG23	6:Cn:251:ARG:HD2	1.97	0.47
1:Ci:3:ASP:OD2	3:Ck:14:TYR:HB3	2.14	0.47
5:Cm:238:ILE:O	5:Cm:238:ILE:HG13	2.13	0.47
5:Cs:230:LEU:CD1	5:Cs:231:THR:H	2.24	0.47
5:Cy:219:ARG:NH2	6:Df:150:LYS:HD3	2.29	0.47
6:Cz:189:TRP:CG	6:Cz:230:LEU:HD12	2.50	0.47
1:Da:16:ALA:HA	4:Dj:3:GLY:HA3	1.96	0.47
5:De:255:LEU:HD13	5:De:261:VAL:HG13	1.95	0.47
6:Dl:144:THR:CG2	6:Dl:148:PRO:HG3	2.44	0.47
6:Dr:106:VAL:HA	6:Dr:109:LYS:NZ	2.30	0.47
6:Dr:150:LYS:HG2	6:Dr:152:THR:HG23	1.95	0.47
6:Dr:208:LYS:HB3	7:Eu:824:THR:HG23	1.96	0.47
7:Ei:787:GLU:HA	7:Ei:790:TYR:HD2	1.80	0.47
7:Em:782:ASN:HB3	9:Fc:241:LYS:HE2	1.97	0.47
7:Eq:781:GLN:OE1	9:Fb:337:GLN:HB3	2.15	0.47
7:Er:808:LEU:HB3	7:Er:812:TRP:CZ2	2.49	0.47
7:Et:779:GLN:HA	7:Et:782:ASN:ND2	2.29	0.47
8:Ew:376:PHE:HE2	8:Fa:85:PHE:CE2	2.33	0.47
8:Ew:418:LEU:HD12	8:Ew:418:LEU:C	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ex:42:TYR:HA	8:Ex:45:ASN:HD21	1.79	0.47
8:Ey:54:ILE:HG23	8:Ez:45:ASN:HB2	1.96	0.47
8:Ey:129:SER:H	8:Ey:137:THR:HG21	1.79	0.47
8:Ey:191:MET:HE1	8:Ey:198:TRP:CG	2.49	0.47
8:Ey:269:ALA:HB1	8:Ey:274:GLN:HB2	1.96	0.47
8:Ey:298:TYR:CZ	8:Ez:230:PHE:HE1	2.33	0.47
8:Ez:78:GLN:HB2	8:Fa:383:LEU:CD1	2.44	0.47
8:Fa:408:PRO:HA	8:Fa:411:VAL:HG22	1.96	0.47
9:Fb:264:PRO:HB2	9:Fb:266:PHE:CZ	2.50	0.47
9:Fb:644:PHE:HB3	9:Fb:720:PHE:HE2	1.77	0.47
9:Fb:730:MET:HE2	9:Ff:708:LEU:HD22	1.97	0.47
9:Fc:68:VAL:HA	9:Fc:71:LEU:HG	1.97	0.47
9:Fc:820:ILE:HA	9:Fc:823:ILE:HD12	1.96	0.47
9:Fd:297:ASP:HB2	9:Fd:299:LYS:HG2	1.97	0.47
9:Fd:459:LYS:HE2	9:Fd:463:MET:HG2	1.97	0.47
9:Fd:546:LYS:CE	9:Fd:650:GLU:HG3	2.45	0.47
9:Fd:721:GLY:HA2	9:Fd:724:ILE:HG12	1.95	0.47
9:Fd:797:LYS:HB3	9:Fd:800:PHE:CE2	2.49	0.47
9:Fe:612:CYS:HB2	9:Fe:626:ARG:NE	2.27	0.47
9:Fe:912:PHE:O	9:Fe:916:LEU:HD22	2.14	0.47
9:Ff:802:ILE:O	9:Ff:806:VAL:HG22	2.15	0.47
9:Ff:936:LEU:N	9:Ff:937:PRO:HD2	2.29	0.47
6:Al:115:MET:HE3	7:Ev:801:MET:HE2	1.96	0.47
6:Al:125:GLU:O	6:Al:128:VAL:HG22	2.15	0.47
5:Bi:216:ILE:HG12	5:Bi:221:TRP:CH2	2.44	0.47
5:Bi:251:GLN:HB3	5:Bi:253:ARG:HH21	1.79	0.47
5:Bo:219:ARG:HD3	6:Bv:148:PRO:O	2.14	0.47
5:Dq:207:ARG:NH1	5:Dq:208:ILE:H	2.13	0.47
7:Et:805:ALA:O	7:Et:809:VAL:HG12	2.14	0.47
8:Ew:67:GLN:HA	8:Ew:413:LYS:HZ2	1.80	0.47
8:Ew:254:MET:CE	8:Ew:354:ARG:HB2	2.43	0.47
8:Ex:80:TYR:HB3	8:Ex:359:MET:HE2	1.97	0.47
8:Ey:343:GLY:HA2	8:Ey:346:ASN:ND2	2.29	0.47
8:Ey:374:ASN:O	8:Ey:378:MET:HE2	2.14	0.47
8:Ey:400:ILE:HG13	8:Ey:401:LYS:N	2.29	0.47
8:Fa:123:GLN:HA	8:Fa:135:LYS:HE3	1.96	0.47
8:Fa:177:ALA:O	8:Fa:181:ILE:HG12	2.14	0.47
9:Fb:759:MET:HB3	9:Fb:763:PHE:CZ	2.49	0.47
9:Fc:185:LEU:HD12	9:Fc:189:ILE:HD11	1.97	0.47
9:Fd:644:PHE:HB3	9:Fd:717:ILE:HD11	1.97	0.47
5:Ae:253:ARG:CZ	5:Ae:253:ARG:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ax:191:ILE:HG13	6:Ax:211:ASN:HA	1.96	0.47
6:Bd:182:LEU:HD11	6:Bd:186:GLY:HA2	1.97	0.47
6:Bd:196:LEU:HD21	6:Bd:202:PHE:HD2	1.80	0.47
6:Bj:254:LEU:H	6:Bj:254:LEU:HD12	1.80	0.47
5:Cm:219:ARG:HD3	6:Ct:246:LYS:HZ3	1.78	0.47
6:Ct:128:VAL:O	6:Ct:132:GLN:HG2	2.15	0.47
1:Cu:1:CYS:HA	4:Cx:2:PHE:CD2	2.50	0.47
5:De:245:LYS:HD2	5:De:245:LYS:N	2.29	0.47
5:Dk:215:VAL:HG22	5:Dk:249:SER:HB3	1.97	0.47
6:Dx:130:LEU:HD12	7:Et:808:LEU:HD12	1.97	0.47
6:Ed:252:VAL:HG13	6:Ed:254:LEU:HD21	1.97	0.47
8:Ey:327:SER:OG	8:Ez:211:MET:HE1	2.15	0.47
8:Fa:381:ARG:HG3	8:Fa:382:ARG:HD3	1.97	0.47
9:Fb:203:ASP:HA	9:Fb:206:LEU:HG	1.96	0.47
9:Fb:693:GLY:O	9:Fb:696:TYR:HB2	2.15	0.47
9:Fc:57:MET:SD	9:Fc:60:MET:HE2	2.55	0.47
9:Fc:825:LEU:HD11	9:Fc:928:LYS:CE	2.45	0.47
9:Fd:829:GLY:HA2	9:Fd:832:ILE:HG12	1.97	0.47
9:Fe:753:ILE:HG13	9:Fe:922:TYR:CZ	2.50	0.47
9:Ff:624:LEU:HA	9:Ff:627:MET:HE1	1.96	0.47
1:Ag:11:TYR:CE2	3:Ai:9:TYR:HB3	2.50	0.47
6:Bj:117:ARG:HH21	7:Ei:797:ARG:HB3	1.79	0.47
1:Cc:16:ALA:HB3	2:Cj:9:ARG:HG3	1.97	0.47
6:Ct:196:LEU:HD21	6:Ct:202:PHE:HB2	1.96	0.47
6:Dx:191:ILE:HD13	6:Dx:213:LEU:HG	1.97	0.47
6:Dx:238:MET:HE3	6:Ed:251:ARG:HB2	1.97	0.47
6:Ed:111:ALA:CB	7:Et:797:ARG:HH21	2.27	0.47
7:Ef:797:ARG:O	7:Ef:801:MET:HG2	2.14	0.47
7:Es:784:GLN:OE1	7:Es:784:GLN:HA	2.14	0.47
7:Eu:804:ALA:O	7:Eu:807:GLN:HG3	2.15	0.47
8:Ew:68:LEU:HD12	8:Ew:69:PHE:H	1.80	0.47
8:Ew:118:THR:HA	8:Ew:121:LYS:HG2	1.96	0.47
8:Ex:101:PHE:HZ	8:Ex:116:ALA:HA	1.79	0.47
8:Ex:316:GLU:O	8:Ex:320:LYS:HG3	2.15	0.47
8:Ey:105:LYS:HZ3	8:Ez:367:ASN:HA	1.79	0.47
8:Ey:407:SER:O	8:Ey:411:VAL:HG13	2.15	0.47
8:Ez:420:ALA:O	8:Ez:423:ASN:HB3	2.14	0.47
8:Fa:208:ASN:O	8:Fa:212:GLN:HG3	2.14	0.47
9:Fb:831:TRP:HE3	9:Ff:37:PHE:HE2	1.63	0.47
9:Fc:716:LEU:HB3	9:Fd:723:PHE:CD2	2.48	0.47
9:Fd:146:ALA:O	9:Fd:150:LEU:HD22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fd:339:MET:O	9:Fd:343:LEU:HD13	2.15	0.47
9:Fd:427:ASN:HA	9:Fd:430:MET:HE3	1.97	0.47
9:Fd:566:THR:HG23	9:Fd:569:GLY:H	1.81	0.47
9:Fe:132:ILE:HG22	9:Fe:808:VAL:HB	1.96	0.47
9:Fe:725:PHE:CZ	9:Ff:722:ILE:HG23	2.50	0.47
9:Ff:338:GLN:HE22	9:Ff:429:ILE:HB	1.80	0.47
9:Ff:434:LEU:O	9:Ff:437:ILE:HG22	2.15	0.47
7:Fj:14:ASN:HB3	7:Fj:17:THR:HG23	1.96	0.47
7:Fj:20:ILE:HG13	7:Fj:21:ILE:HD13	1.97	0.47
6:Af:117:ARG:HE	7:Ev:797:ARG:CZ	2.29	0.46
6:Af:238:MET:HG2	6:Al:251:ARG:CZ	2.45	0.46
2:An:4:MET:HE1	5:Aq:248:ASP:HA	1.96	0.46
6:Ar:171:LEU:HD21	6:Ar:241:LEU:HD12	1.97	0.46
6:Ar:173:GLN:NE2	6:Ar:220:LEU:HD23	2.30	0.46
6:Ar:181:PHE:HA	6:Ar:254:LEU:HD12	1.97	0.46
5:Aw:254:ILE:HD13	5:Aw:262:ILE:HB	1.97	0.46
6:Bd:219:LYS:HD2	6:Bd:222:ASN:ND2	2.27	0.46
6:Bj:115:MET:HE1	7:Eh:802:LEU:HA	1.96	0.46
1:Cc:16:ALA:HA	4:Cl:3:GLY:HA3	1.97	0.46
6:Cn:233:LEU:HD13	6:Cn:235:THR:O	2.15	0.46
6:Ct:122:LEU:HG	7:Eo:808:LEU:HD11	1.97	0.46
6:Cz:108:ASP:HA	7:Eo:797:ARG:CZ	2.45	0.46
5:De:218:GLY:HA3	6:Dl:148:PRO:HD3	1.96	0.46
5:De:264:PHE:CD1	5:De:269:SER:HB3	2.46	0.46
5:Dq:219:ARG:HD3	6:Dx:148:PRO:O	2.14	0.46
6:Dr:171:LEU:HB2	6:Dr:243:PRO:HA	1.97	0.46
1:Ds:16:ALA:HB3	2:Dz:9:ARG:HG2	1.97	0.46
6:Dx:238:MET:HE3	6:Ed:251:ARG:CB	2.45	0.46
7:Eh:789:LYS:HA	7:Eh:792:GLN:HE22	1.80	0.46
7:El:798:THR:O	7:El:802:LEU:HD23	2.15	0.46
7:Eo:797:ARG:O	7:Eo:801:MET:HG2	2.15	0.46
7:Es:774:LEU:O	7:Es:778:LEU:HG	2.15	0.46
8:Ez:177:ALA:O	8:Ez:181:ILE:HG12	2.15	0.46
8:Fa:426:MET:C	8:Fa:426:MET:HE2	2.40	0.46
9:Fb:500:GLN:O	9:Fb:503:LYS:HB3	2.13	0.46
9:Fb:615:VAL:HG12	9:Fb:622:PHE:O	2.15	0.46
9:Fb:635:TYR:CE2	9:Ff:507:LYS:HG3	2.50	0.46
9:Fc:728:ILE:CD1	9:Fd:730:MET:HB3	2.45	0.46
9:Fd:326:GLN:HB3	9:Fd:329:ARG:HH21	1.79	0.46
9:Fd:905:TRP:CE3	9:Fd:909:TYR:CE1	3.00	0.46
9:Fe:922:TYR:O	9:Fe:926:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ff:655:ILE:O	9:Ff:659:PHE:HD1	1.98	0.46
9:Ff:700:SER:HB2	9:Ff:742:MET:HE2	1.96	0.46
5:Ae:253:ARG:HH12	5:Ae:263:LYS:HG2	1.80	0.46
6:Ax:166:PRO:HG3	6:Bd:250:TYR:CD2	2.51	0.46
6:Bj:170:ARG:HD2	6:Bj:247:ALA:HB3	1.97	0.46
6:Bv:170:ARG:O	6:Bv:249:ASP:HB2	2.15	0.46
5:Cg:222:LEU:HD21	5:Cg:254:ILE:HD11	1.97	0.46
6:Cn:229:ARG:HH11	6:Cn:230:LEU:H	1.63	0.46
3:Di:1:ARG:HG2	3:Di:2:VAL:N	2.29	0.46
8:Ew:323:ALA:C	8:Ex:212:GLN:HE22	2.23	0.46
8:Ex:75:GLN:HE21	8:Ex:79:ASN:ND2	2.12	0.46
8:Ex:84:THR:O	8:Ex:88:ALA:HB2	2.15	0.46
9:Fb:588:LEU:HD13	9:Fb:661:MET:HG2	1.97	0.46
9:Fb:630:ASP:HB3	9:Ff:507:LYS:HE2	1.96	0.46
9:Fb:924:ILE:CD1	9:Ff:763:PHE:HE1	2.27	0.46
9:Fd:65:ASN:HA	9:Fd:68:VAL:CG1	2.44	0.46
9:Fe:213:PRO:HB2	9:Fe:222:MET:HG2	1.95	0.46
9:Fe:769:LEU:O	9:Fe:772:VAL:HG12	2.16	0.46
9:Ff:191:MET:SD	9:Ff:263:MET:HG2	2.55	0.46
9:Ff:339:MET:SD	9:Ff:339:MET:N	2.88	0.46
9:Ff:726:ALA:O	9:Ff:730:MET:HG3	2.16	0.46
9:Ff:928:LYS:HA	9:Ff:931:THR:HG23	1.97	0.46
6:Af:109:LYS:C	6:Af:113:LYS:HZ3	2.24	0.46
1:Ag:16:ALA:HB1	4:Ap:3:GLY:H	1.81	0.46
6:Ar:204:ILE:HG12	6:Ar:215:ILE:HG12	1.97	0.46
6:Bd:109:LYS:HD2	6:Bd:109:LYS:N	2.31	0.46
6:Bp:227:ALA:HA	6:Bp:238:MET:HB2	1.96	0.46
6:Cb:176:VAL:HG23	6:Cb:214:MET:HE2	1.98	0.46
5:Cg:219:ARG:NH2	6:Cn:150:LYS:HD2	2.31	0.46
6:Ch:115:MET:HE3	7:El:798:THR:HA	1.98	0.46
6:Cn:141:LYS:HE3	7:Eo:812:TRP:CZ2	2.49	0.46
6:Cn:255:ARG:HD2	6:Cn:255:ARG:HA	1.67	0.46
5:Dk:246:LEU:HD21	5:Dk:248:ASP:HB2	1.96	0.46
5:Dq:253:ARG:HB2	5:Dq:263:LYS:HZ1	1.80	0.46
5:Dw:253:ARG:C	5:Dw:254:ILE:HD13	2.40	0.46
6:Dx:122:LEU:HD11	6:Dx:130:LEU:HD11	1.98	0.46
6:Dx:203:ASN:HD21	7:Eu:817:THR:HG23	1.80	0.46
7:Ek:794:ILE:O	7:Ek:798:THR:HG23	2.15	0.46
7:Eu:778:LEU:O	7:Eu:781:GLN:HB2	2.14	0.46
8:Ew:64:PRO:HG3	8:Ex:48:LYS:HG2	1.96	0.46
8:Ew:301:LEU:HB2	8:Ew:326:LEU:HD21	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ex:40:VAL:O	8:Ex:44:THR:HG23	2.15	0.46
8:Ex:342:VAL:HG21	8:Ex:442:ILE:HD13	1.98	0.46
8:Ex:382:ARG:HG2	8:Ex:399:TRP:CG	2.50	0.46
8:Ex:435:ARG:O	8:Ex:439:THR:HG23	2.15	0.46
8:Ey:346:ASN:HA	8:Ey:435:ARG:NH2	2.30	0.46
8:Ez:426:MET:HA	8:Ez:429:ASP:OD2	2.15	0.46
8:Fa:56:GLN:HB3	8:Fa:59:LYS:HG2	1.96	0.46
9:Fb:452:PHE:HD1	9:Fb:452:PHE:H	1.62	0.46
9:Fb:464:ALA:HB3	9:Fb:761:PHE:CE2	2.50	0.46
9:Fb:741:THR:HG23	9:Fb:916:LEU:HD11	1.96	0.46
9:Fc:273:TYR:O	9:Fc:276:ASN:HB2	2.16	0.46
9:Fc:520:PHE:CE2	9:Fc:526:LYS:HB2	2.44	0.46
9:Fc:827:TYR:HA	9:Fc:830:VAL:HG12	1.97	0.46
9:Fd:45:VAL:HG11	9:Fd:129:MET:HG2	1.97	0.46
9:Fd:748:VAL:O	9:Fd:753:ILE:HG12	2.16	0.46
5:Aq:233:ARG:HB2	6:Ax:147:THR:HG21	1.95	0.46
6:Bd:144:THR:HG21	6:Bd:148:PRO:HG3	1.96	0.46
5:Bi:264:PHE:HB3	5:Bi:269:SER:HB3	1.98	0.46
6:Bj:117:ARG:NH2	7: Ei:797:ARG:HB3	2.31	0.46
6:Bj:147:THR:OG1	6:Bj:246:LYS:HE2	2.15	0.46
6:Bp:225:ASN:HB2	6:Bv:250:TYR:HH	1.80	0.46
6:Cn:189:TRP:CE2	6:Cn:260:GLY:HA2	2.50	0.46
2:Cp:4:MET:SD	5:Cs:248:ASP:HA	2.56	0.46
5:Cs:253:ARG:C	5:Cs:254:ILE:HD13	2.41	0.46
6:Ct:121:PRO:CB	7:Eo:801:MET:HE1	2.39	0.46
6:Df:122:LEU:CD2	7:Eq:808:LEU:HD11	2.45	0.46
6:Dr:115:MET:SD	7:Er:801:MET:SD	3.13	0.46
6:Dx:137:SER:HG	6:Ed:120:TYR:HE1	1.61	0.46
7:Em:781:GLN:O	7:Em:785:LEU:HD23	2.16	0.46
7:Em:808:LEU:O	7:Em:811:ASP:N	2.49	0.46
7:Eq:774:LEU:HD11	9:Fb:432:PRO:HG2	1.96	0.46
7:Eq:822:GLU:OE1	7:Eq:822:GLU:HA	2.15	0.46
8:Ex:293:PRO:HD3	8:Ex:329:TYR:OH	2.15	0.46
8:Ey:67:GLN:HA	8:Ey:413:LYS:NZ	2.31	0.46
8:Ez:175:SER:HB3	8:Fa:244:ASN:HD22	1.80	0.46
8:Ez:341:SER:HA	8:Ez:344:VAL:HG22	1.97	0.46
9:Fb:609:ASP:HA	9:Fb:626:ARG:NH1	2.30	0.46
9:Fb:908:VAL:HA	9:Fb:911:PHE:CE2	2.50	0.46
9:Fc:261:LEU:HB2	9:Fc:284:TRP:HH2	1.80	0.46
9:Fc:420:LEU:CD1	9:Fc:579:LEU:HD21	2.45	0.46
9:Fc:430:MET:N	9:Fc:430:MET:HE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fc:837:PHE:O	9:Fc:841:ILE:HG22	2.16	0.46
9:Fe:756:LEU:O	9:Fe:760:ILE:HG12	2.15	0.46
9:Ff:463:MET:N	9:Ff:463:MET:HE3	2.30	0.46
5:Ae:247:ILE:HD12	5:Ae:254:ILE:HD12	1.97	0.46
6:Al:121:PRO:HB3	7:Ee:797:ARG:NH2	2.30	0.46
6:Al:240:THR:C	6:Al:241:LEU:HD23	2.40	0.46
5:Bc:219:ARG:HD3	6:Bj:148:PRO:O	2.15	0.46
6:Bd:182:LEU:HD12	6:Bd:183:ASP:N	2.30	0.46
5:Bi:246:LEU:HG	5:Bi:255:LEU:HD23	1.98	0.46
6:Bp:107:ILE:N	6:Bp:110:LYS:HZ1	2.13	0.46
3:Ce:2:VAL:HG22	3:Ce:8:VAL:HG23	1.98	0.46
6:Cz:114:ASP:O	6:Cz:117:ARG:HG3	2.16	0.46
6:Cz:150:LYS:HA	6:Cz:150:LYS:CE	2.46	0.46
1:Da:15:ASN:HB3	2:Dh:9:ARG:NH2	2.30	0.46
6:Df:170:ARG:HG3	6:Df:248:VAL:HA	1.98	0.46
1:Dm:3:ASP:HA	1:Dm:6:LEU:HG	1.97	0.46
6:Dr:109:LYS:O	6:Dr:113:LYS:HG2	2.14	0.46
1:Ds:6:LEU:O	1:Ds:10:GLU:HG2	2.16	0.46
6:Dx:122:LEU:HG	7:Et:808:LEU:HD11	1.96	0.46
6:Dx:182:LEU:HG	6:Dx:255:ARG:HE	1.81	0.46
6:Ed:180:VAL:HG13	6:Ed:253:ASP:HA	1.97	0.46
6:Ed:228:VAL:HG13	6:Ed:237:VAL:HB	1.96	0.46
7:Ef:782:ASN:HA	7:Ef:785:LEU:HG	1.97	0.46
8:Ew:107:GLN:HG3	8:Ex:387:THR:HG22	1.97	0.46
8:Ew:115:LEU:HD12	8:Ew:118:THR:OG1	2.16	0.46
8:Ew:172:ASP:O	8:Ew:176:GLN:HG2	2.16	0.46
8:Ey:85:PHE:HE2	8:Ez:376:PHE:HE1	1.61	0.46
8:Ey:327:SER:HA	8:Ey:330:PHE:CD2	2.50	0.46
8:Ez:89:ILE:HG22	8:Ez:349:TYR:CE1	2.48	0.46
8:Ez:399:TRP:HH2	8:Ez:414:GLU:HB3	1.81	0.46
9:Fb:274:PHE:CE2	9:Fb:515:LEU:HB2	2.50	0.46
9:Fb:666:GLY:HA3	9:Fb:699:PHE:CZ	2.51	0.46
9:Fb:725:PHE:HA	9:Fb:728:ILE:HG22	1.97	0.46
9:Fc:500:GLN:HA	9:Fc:503:LYS:CG	2.39	0.46
9:Fd:377:GLN:O	9:Fd:412:VAL:HA	2.16	0.46
9:Fd:813:SER:O	9:Fd:817:ILE:HG13	2.15	0.46
9:Fe:234:ILE:HD12	9:Fe:234:ILE:H	1.81	0.46
9:Fe:756:LEU:HA	9:Fe:759:MET:CE	2.46	0.46
6:Af:112:PHE:CD1	6:Af:112:PHE:C	2.94	0.46
6:Ar:126:GLN:HA	6:Ar:129:LYS:NZ	2.26	0.46
6:Ar:156:GLN:O	6:Ar:254:LEU:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ar:181:PHE:HZ	6:Ar:213:LEU:HD12	1.80	0.46
6:Ar:225:ASN:HB2	6:Ax:250:TYR:OH	2.16	0.46
6:Bd:196:LEU:HD23	6:Bd:199:PRO:HB3	1.97	0.46
6:Bd:208:LYS:HG2	7:Ej:824:THR:HG23	1.98	0.46
6:Bj:239:LEU:HD21	6:Bj:254:LEU:HD21	1.96	0.46
6:Bv:229:ARG:HH22	6:Bv:233:LEU:HB3	1.81	0.46
6:Cb:141:LYS:HZ1	7:Em:808:LEU:HD13	1.80	0.46
6:Ch:107:ILE:HG13	6:Ch:110:LYS:HZ3	1.81	0.46
6:Cn:190:PRO:O	6:Cn:231:ARG:HG2	2.15	0.46
6:Cz:144:THR:HA	6:Df:131:LYS:HZ3	1.81	0.46
2:Db:7:GLY:O	4:Dd:1:PRO:HB2	2.15	0.46
1:Dy:1:CYS:HA	2:Dz:9:ARG:CZ	2.45	0.46
6:Ed:149:PRO:HB2	6:Ed:248:VAL:HG12	1.97	0.46
7:Eo:808:LEU:HB3	7:Eo:812:TRP:CZ2	2.51	0.46
7:Ep:806:THR:HA	7:Ep:809:VAL:CG1	2.45	0.46
8:Ew:380:THR:HB	8:Fa:82:TYR:OH	2.16	0.46
8:Ey:293:PRO:HG3	8:Ey:329:TYR:CE2	2.51	0.46
8:Ez:246:ASN:HA	8:Ez:249:ILE:HG13	1.96	0.46
9:Fb:546:LYS:HG3	9:Fb:650:GLU:OE2	2.16	0.46
9:Fb:729:MET:HE2	9:Fb:729:MET:O	2.16	0.46
9:Fb:819:TYR:O	9:Fb:823:ILE:HG22	2.16	0.46
9:Fd:143:TRP:HB2	9:Fd:816:ILE:HG12	1.97	0.46
9:Fe:526:LYS:HA	9:Fe:526:LYS:HE3	1.96	0.46
9:Fe:702:THR:O	9:Fe:705:LEU:HD12	2.16	0.46
9:Fe:771:ALA:O	9:Fe:774:GLU:HB2	2.14	0.46
9:Ff:290:LEU:HA	9:Ff:313:MET:SD	2.55	0.46
9:Ff:428:GLY:HA2	9:Ff:431:MET:HG2	1.97	0.46
9:Ff:464:ALA:HB1	9:Ff:819:TYR:CE2	2.51	0.46
5:Ae:218:GLY:HA3	6:Al:148:PRO:HD3	1.96	0.46
3:Ao:1:ARG:HH22	3:Ao:3:SER:HA	1.80	0.46
1:Ay:3:ASP:OD1	3:Ba:16:ASP:HB2	2.16	0.46
5:Bi:216:ILE:HD11	6:Bp:148:PRO:HG2	1.97	0.46
3:Bm:2:VAL:HG21	6:Cb:129:LYS:HD3	1.96	0.46
2:Br:4:MET:CE	5:Bu:250:LEU:H	2.29	0.46
6:Cb:230:LEU:HB2	6:Cb:233:LEU:HD23	1.98	0.46
1:Cc:4:ALA:HB2	3:Ce:14:TYR:HB2	1.98	0.46
5:Cg:210:TYR:HA	5:Cg:224:GLY:HA2	1.98	0.46
6:Ch:123:ASN:ND2	6:Ch:124:PRO:HD2	2.31	0.46
3:Cw:1:ARG:H3	3:Cw:10:THR:HG23	1.81	0.46
5:Dk:253:ARG:HE	5:Dk:255:LEU:HD21	1.80	0.46
6:Dr:173:GLN:CD	6:Dr:220:LEU:HD23	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dw:269:SER:C	6:Dx:150:LYS:HD2	2.40	0.46
6:Dx:107:ILE:HG23	6:Dx:110:LYS:NZ	2.31	0.46
6:Ed:209:THR:HG22	7:Ee:824:THR:HG21	1.96	0.46
7:Eg:810:GLN:HA	7:Eg:813:LYS:CE	2.46	0.46
8:Ey:349:TYR:HB3	8:Ey:435:ARG:NH1	2.31	0.46
8:Ez:189:PHE:CG	8:Ez:295:LEU:HD21	2.51	0.46
8:Ez:294:LYS:HE2	8:Ez:294:LYS:HB2	1.55	0.46
8:Ez:419:LEU:HD11	8:Fa:415:ILE:HG23	1.97	0.46
9:Fb:102:TRP:CE3	9:Fb:105:LEU:HD13	2.50	0.46
9:Fb:631:LEU:HD21	9:Fc:628:MET:HE2	1.98	0.46
9:Fb:937:PRO:O	9:Fb:941:LEU:HG	2.15	0.46
9:Fc:144:GLU:HA	9:Fc:147:LEU:HG	1.97	0.46
9:Fc:745:ILE:CG2	9:Fc:919:THR:HG21	2.44	0.46
9:Fd:448:LYS:HB2	9:Fd:448:LYS:HE2	1.67	0.46
9:Fe:655:ILE:O	9:Fe:659:PHE:HD2	1.99	0.46
9:Fe:757:PRO:HA	9:Fe:760:ILE:CG1	2.45	0.46
9:Ff:187:GLY:O	9:Ff:191:MET:HG3	2.16	0.46
9:Ff:460:GLY:C	9:Ff:463:MET:HE1	2.41	0.46
9:Ff:799:GLU:HA	9:Ff:802:ILE:HD12	1.98	0.46
7:Fh:8:LEU:HD12	7:Fh:9:LYS:N	2.30	0.46
6:Af:216:GLN:NE2	7:Ee:818:GLN:HG2	2.31	0.46
6:Af:228:VAL:HB	6:Af:237:VAL:HG13	1.98	0.46
5:Ak:250:LEU:HD12	5:Ak:251:GLN:HG3	1.96	0.46
1:Ay:16:ALA:C	2:Bf:9:ARG:HG3	2.41	0.46
6:Bj:141:LYS:HZ2	7:Ej:812:TRP:CD1	2.34	0.46
6:Cb:166:PRO:HG3	6:Ch:250:TYR:CE1	2.50	0.46
6:Ch:108:ASP:HA	7:El:797:ARG:NH1	2.30	0.46
6:Cz:252:VAL:HG12	6:Cz:254:LEU:HD13	1.97	0.46
5:De:223:ILE:HD12	5:De:228:SER:O	2.16	0.46
5:Dq:218:GLY:HA3	6:Dx:148:PRO:HD3	1.97	0.46
7:Ej:775:GLN:O	7:Ej:778:LEU:HD12	2.16	0.46
8:Ew:298:TYR:HA	8:Ew:301:LEU:CD1	2.45	0.46
8:Ey:81:ALA:HB2	8:Ey:378:MET:HE3	1.98	0.46
8:Ez:302:TRP:CD1	8:Ez:302:TRP:C	2.94	0.46
8:Ez:400:ILE:HG13	8:Ez:401:LYS:N	2.30	0.46
8:Fa:252:LEU:HG	8:Fa:373:LEU:HA	1.98	0.46
9:Fc:163:PRO:HB2	9:Fc:579:LEU:HD12	1.98	0.46
9:Fc:639:TYR:CD1	9:Fc:639:TYR:C	2.93	0.46
9:Fc:751:TYR:C	9:Fc:754:PRO:HD2	2.41	0.46
9:Fe:370:PHE:CD1	9:Fe:377:GLN:HB3	2.51	0.46
9:Fe:505:PHE:HA	9:Fe:509:CYS:SG	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fe:705:LEU:HA	9:Fe:708:LEU:HB2	1.98	0.46
9:Fe:940:VAL:HA	9:Fe:943:TRP:CZ3	2.51	0.46
9:Ff:636:VAL:O	9:Ff:640:VAL:HG13	2.16	0.46
5:Ae:222:LEU:HD11	5:Ae:262:ILE:HG21	1.98	0.46
6:Af:179:LEU:HD22	6:Af:252:VAL:HG22	1.98	0.46
6:Al:129:LYS:O	6:Al:133:ILE:HG22	2.16	0.46
6:Al:238:MET:HB3	6:Ar:250:TYR:HD2	1.81	0.46
6:Ar:169:ILE:HD11	6:Ar:239:LEU:HD22	1.98	0.46
6:Bp:174:GLY:HA2	6:Bp:216:GLN:HE21	1.80	0.46
6:Bp:198:ASP:HB3	6:Bp:202:PHE:HE2	1.79	0.46
5:Bu:230:LEU:HD12	5:Bu:231:THR:N	2.31	0.46
6:Bv:117:ARG:NH1	6:Bv:118:ASN:HB3	2.21	0.46
5:Cg:253:ARG:HD3	5:Cg:255:LEU:HD11	1.98	0.46
1:Ci:8:ALA:HB1	3:Ck:1:ARG:HD2	1.97	0.46
6:Cn:226:LEU:HB2	6:Cn:241:LEU:HD11	1.98	0.46
4:Dd:2:PHE:HB3	5:De:251:GLN:NE2	2.31	0.46
1:Dm:12:HIS:HD2	3:Do:9:TYR:HD2	1.64	0.46
8:Ew:319:GLN:OE1	8:Ew:320:LYS:HG2	2.16	0.46
8:Ew:413:LYS:CE	8:Ex:404:ASN:HA	2.44	0.46
8:Ew:437:LEU:CD2	8:Ex:432:ILE:HG22	2.45	0.46
8:Ex:448:LEU:HD21	8:Ey:340:THR:HG22	1.96	0.46
8:Ey:118:THR:HA	8:Ey:121:LYS:HG2	1.97	0.46
8:Ey:281:ARG:HG3	8:Ey:286:GLN:NE2	2.31	0.46
8:Ez:302:TRP:HD1	8:Ez:303:ASN:ND2	2.08	0.46
8:Ez:326:LEU:N	8:Ez:326:LEU:HD23	2.30	0.46
8:Ez:418:LEU:HD12	8:Ez:419:LEU:HD23	1.98	0.46
9:Fc:124:MET:O	9:Fc:128:PHE:HD1	1.98	0.46
9:Fc:239:PHE:HD1	9:Fc:261:LEU:HG	1.81	0.46
9:Fc:240:VAL:O	9:Fc:243:GLN:HG3	2.15	0.46
9:Fc:452:PHE:CZ	9:Fc:470:ASP:HB3	2.51	0.46
9:Fc:935:HIS:O	9:Fc:939:LYS:HD2	2.16	0.46
9:Fd:526:LYS:HA	9:Fd:529:GLN:HE21	1.81	0.46
9:Fd:674:GLY:O	9:Fd:678:LEU:HG	2.15	0.46
9:Fd:740:GLY:HA2	9:Fd:743:VAL:HG12	1.98	0.46
9:Fe:105:LEU:O	9:Fe:108:THR:HG22	2.15	0.46
9:Fe:137:GLY:HA2	9:Fe:140:ASP:OD1	2.16	0.46
9:Fe:918:TYR:O	9:Fe:921:MET:HB2	2.16	0.46
9:Ff:237:VAL:HG21	9:Ff:263:MET:HB2	1.97	0.46
9:Ff:323:SER:HA	9:Ff:326:GLN:HG2	1.96	0.46
9:Ff:937:PRO:O	9:Ff:940:VAL:HG22	2.16	0.46
5:Ak:217:PRO:HG2	6:Ar:143:ALA:HB1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bk:11:TYR:CD2	3:Bm:9:TYR:HB3	2.51	0.46
6:Bp:139:TYR:O	6:Bp:143:ALA:HB2	2.15	0.46
3:Bs:13:LYS:HD3	3:Bs:13:LYS:HA	1.67	0.46
6:Cb:156:GLN:HE22	6:Cb:167:PRO:HG3	1.81	0.46
6:Cb:189:TRP:HB3	6:Cb:230:LEU:HD12	1.97	0.46
5:Cs:210:TYR:CB	5:Cs:222:LEU:HD11	2.46	0.46
6:Df:134:TYR:HE2	7:Eq:812:TRP:HB2	1.81	0.46
6:Df:200:SER:HB3	7:Es:816:GLU:OE2	2.16	0.46
6:Dr:202:PHE:CE1	6:Dr:241:LEU:HB2	2.51	0.46
5:Ec:264:PHE:HB3	5:Ec:269:SER:HB3	1.98	0.46
7:Eh:810:GLN:O	7:Eh:814:GLN:HG2	2.15	0.46
7:Er:801:MET:SD	7:Er:802:LEU:N	2.89	0.46
8:Ew:228:PRO:HB2	8:Ew:232:SER:OG	2.14	0.46
8:Ex:94:MET:CE	8:Ey:241:SER:HB2	2.46	0.46
8:Ey:335:VAL:O	8:Ey:339:GLN:HG2	2.16	0.46
8:Ez:189:PHE:HA	8:Ez:295:LEU:HD11	1.98	0.46
8:Ez:219:PRO:HA	8:Ez:220:PRO:HD3	1.82	0.46
8:Fa:101:PHE:HZ	8:Fa:116:ALA:HA	1.81	0.46
9:Fb:288:SER:HA	9:Fb:291:ASN:HB3	1.98	0.46
9:Fb:550:LEU:H	9:Fb:550:LEU:HD12	1.80	0.46
9:Fb:939:LYS:HG3	9:Fb:940:VAL:H	1.79	0.46
9:Fc:148:SER:O	9:Fc:152:ARG:HG2	2.16	0.46
9:Fc:251:LEU:HD11	9:Fc:326:GLN:NE2	2.25	0.46
9:Fc:724:ILE:O	9:Fc:728:ILE:HG22	2.15	0.46
9:Fc:820:ILE:HA	9:Fc:823:ILE:CD1	2.46	0.46
9:Fc:933:ILE:HD12	9:Fc:933:ILE:H	1.80	0.46
9:Fd:331:SER:O	9:Fd:334:ILE:HG13	2.16	0.46
9:Fe:167:LEU:HD21	9:Fe:579:LEU:HD11	1.98	0.46
9:Ff:505:PHE:CG	9:Ff:524:SER:HB3	2.50	0.46
5:Ak:246:LEU:HD22	5:Ak:255:LEU:HG	1.98	0.45
6:Ax:140:ALA:HB1	6:Bd:127:VAL:HB	1.97	0.45
6:Ax:184:SER:HA	6:Ax:255:ARG:CZ	2.46	0.45
6:Ax:190:PRO:O	6:Ax:231:ARG:HG2	2.15	0.45
2:Az:5:ILE:HD11	6:Bj:139:TYR:CE2	2.49	0.45
6:Bd:195:ASP:HB2	6:Bd:229:ARG:HH22	1.81	0.45
1:Be:3:ASP:O	1:Be:6:LEU:HD12	2.16	0.45
6:Cb:132:GLN:NE2	6:Cb:136:THR:HG23	2.31	0.45
2:Cd:4:MET:HB2	4:Cf:2:PHE:HZ	1.80	0.45
6:Cn:208:LYS:HD3	6:Cn:208:LYS:HA	1.72	0.45
5:De:207:ARG:NH2	5:De:240:GLY:HA3	2.31	0.45
6:Dl:106:VAL:HA	6:Dl:109:LYS:NZ	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Dl:119:LEU:C	6:Dl:120:TYR:HD2	2.24	0.45
7:Eo:805:ALA:HA	7:Eo:808:LEU:HG	1.97	0.45
7:Eq:772:GLU:HA	7:Eq:775:GLN:CD	2.40	0.45
8:Ew:430:ARG:HH22	8:Ex:428:LEU:CD1	2.25	0.45
8:Ex:121:LYS:NZ	8:Ex:171:ASN:HB3	2.31	0.45
8:Ex:294:LYS:O	8:Ex:298:TYR:HB3	2.16	0.45
8:Ex:308:LYS:HG2	8:Ex:309:PRO:HD2	1.98	0.45
8:Ex:424:TYR:CZ	8:Ey:379:ALA:O	2.70	0.45
8:Ey:191:MET:HE1	8:Ey:198:TRP:CD2	2.50	0.45
8:Ez:420:ALA:O	8:Ez:424:TYR:CD1	2.69	0.45
9:Fb:594:ILE:HB	9:Fb:660:LEU:HD12	1.97	0.45
9:Fb:658:ALA:O	9:Fb:662:ILE:HG12	2.16	0.45
9:Fb:709:ASN:ND2	9:Fc:597:LYS:H	2.14	0.45
9:Fc:178:ALA:HB3	9:Fc:179:LYS:HZ3	1.81	0.45
9:Fc:187:GLY:HA2	9:Fc:496:PHE:HE1	1.81	0.45
9:Fc:274:PHE:CE2	9:Fc:515:LEU:HB2	2.51	0.45
9:Fc:761:PHE:CD1	9:Fc:761:PHE:C	2.95	0.45
9:Fc:788:HIS:ND1	9:Fc:789:PRO:HD2	2.31	0.45
9:Fd:49:LEU:HD22	9:Fd:129:MET:HE2	1.98	0.45
9:Fd:689:LEU:HA	9:Fd:692:MET:HE2	1.98	0.45
9:Fe:287:ILE:HG13	9:Fe:332:ARG:HH12	1.81	0.45
9:Fe:503:LYS:HA	9:Fe:503:LYS:HD2	1.78	0.45
9:Fe:921:MET:O	9:Fe:925:ILE:HG13	2.17	0.45
9:Ff:322:SER:O	9:Ff:326:GLN:HG2	2.16	0.45
9:Ff:462:ILE:C	9:Ff:761:PHE:HZ	2.24	0.45
9:Ff:705:LEU:O	9:Ff:708:LEU:HB2	2.15	0.45
9:Ff:911:PHE:HA	9:Ff:914:SER:OG	2.17	0.45
9:Ff:926:VAL:HA	9:Ff:929:ALA:HB3	1.97	0.45
1:Aa:16:ALA:HA	4:Aj:3:GLY:HA3	1.98	0.45
3:Ac:13:LYS:HD3	3:Ac:13:LYS:HA	1.66	0.45
1:Ag:16:ALA:HA	4:Ap:3:GLY:HA3	1.97	0.45
1:Am:11:TYR:CE2	3:Ao:9:TYR:HB3	2.51	0.45
6:Ar:131:LYS:HG3	6:Ar:135:GLU:OE1	2.17	0.45
5:Bu:264:PHE:CE2	6:Bv:246:LYS:HB3	2.51	0.45
6:Bv:105:GLU:O	6:Bv:108:ASP:HB3	2.16	0.45
6:Cn:121:PRO:HB2	7:En:801:MET:HG3	1.96	0.45
6:Ct:200:SER:O	6:Ct:218:THR:HB	2.17	0.45
6:Df:172:SER:OG	6:Df:248:VAL:HG12	2.16	0.45
5:Dw:213:GLN:HB2	6:Dx:170:ARG:NH2	2.31	0.45
6:Dx:196:LEU:HB2	6:Dx:226:LEU:HD13	1.97	0.45
6:Ed:171:LEU:HB2	6:Ed:243:PRO:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ed:221:TYR:CD2	6:Ed:244:GLY:HA3	2.50	0.45
7:El:812:TRP:HA	7:El:812:TRP:CE3	2.51	0.45
7:En:793:GLU:HA	7:En:796:GLN:HE21	1.80	0.45
8:Ew:54:ILE:HG23	8:Ex:45:ASN:OD1	2.15	0.45
8:Ew:174:VAL:HG21	8:Ew:345:SER:HB3	1.97	0.45
8:Ew:415:ILE:CG2	8:Fa:419:LEU:HD21	2.47	0.45
8:Ey:108:GLY:O	8:Ey:112:ILE:HG12	2.16	0.45
8:Ez:101:PHE:CD2	8:Fa:252:LEU:HB2	2.51	0.45
8:Ez:424:TYR:O	8:Ez:428:LEU:HG	2.16	0.45
8:Fa:209:LEU:HA	8:Fa:212:GLN:NE2	2.12	0.45
9:Fb:704:TRP:CH2	9:Fc:731:ALA:HA	2.43	0.45
9:Fc:56:ILE:H	9:Fc:56:ILE:HG13	1.61	0.45
9:Fc:429:ILE:O	9:Fc:432:PRO:HD2	2.16	0.45
9:Fc:633:TYR:HA	9:Fc:637:PHE:CD1	2.50	0.45
9:Fd:72:GLY:O	9:Fd:76:ILE:HG13	2.16	0.45
9:Fe:38:LEU:HD21	9:Fe:129:MET:HE1	1.97	0.45
9:Fe:429:ILE:HB	9:Fe:430:MET:HE2	1.98	0.45
9:Fe:759:MET:HB3	9:Ff:921:MET:HE2	1.98	0.45
9:Ff:225:PHE:CD2	9:Ff:519:TRP:HB3	2.51	0.45
2:Ab:4:MET:CE	5:Ae:250:LEU:H	2.30	0.45
5:Aq:234:GLU:HA	5:Aq:247:ILE:HD11	1.98	0.45
6:Ar:138:GLU:O	6:Ar:141:LYS:HB3	2.17	0.45
6:Bd:125:GLU:O	6:Bd:129:LYS:HG3	2.17	0.45
6:Bd:129:LYS:HB3	6:Bj:112:PHE:HZ	1.81	0.45
5:Bo:253:ARG:HG2	5:Bo:263:LYS:NZ	2.31	0.45
5:Bo:263:LYS:HA	5:Bo:263:LYS:HE3	1.98	0.45
6:Bv:205:GLN:HB2	7:El:820:TYR:OH	2.15	0.45
6:Ct:108:ASP:HA	7:En:797:ARG:NH2	2.31	0.45
1:Dg:3:ASP:CG	3:Di:14:TYR:HB3	2.41	0.45
1:Dm:1:CYS:HA	4:Dp:2:PHE:CG	2.52	0.45
3:Ea:13:LYS:HD3	3:Ea:13:LYS:HA	1.67	0.45
5:Ec:212:ILE:HG22	5:Ec:263:LYS:O	2.16	0.45
7:Ee:792:GLN:HA	7:Ee:795:GLN:NE2	2.31	0.45
7:Et:797:ARG:HA	7:Et:800:ASP:OD1	2.16	0.45
7:Eu:809:VAL:HG22	7:Eu:813:LYS:HE3	1.98	0.45
8:Ew:244:ASN:HD22	8:Fa:175:SER:HB3	1.81	0.45
8:Ew:301:LEU:HD13	8:Ew:326:LEU:HD22	1.98	0.45
8:Ey:179:PHE:HA	8:Ey:182:LEU:HG	1.98	0.45
8:Ez:211:MET:HB3	8:Ez:287:VAL:O	2.17	0.45
9:Fb:94:LEU:HD23	9:Fb:94:LEU:HA	1.75	0.45
9:Fb:237:VAL:HA	9:Fb:265:ASN:HD22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fb:453:ILE:H	9:Fb:453:ILE:HD12	1.80	0.45
9:Fb:596:PHE:C	9:Fb:597:LYS:HD3	2.41	0.45
9:Fb:668:LYS:O	9:Fb:672:ILE:HG12	2.16	0.45
9:Fb:680:GLN:HB2	9:Fb:683:ILE:HG22	1.98	0.45
9:Fb:760:ILE:HA	9:Fb:763:PHE:CD2	2.51	0.45
9:Fb:785:GLY:HA2	9:Fb:788:HIS:ND1	2.32	0.45
9:Fc:192:LEU:HD23	9:Fc:234:ILE:HD11	1.97	0.45
9:Fc:725:PHE:O	9:Fc:725:PHE:HD1	1.98	0.45
9:Fc:911:PHE:O	9:Fc:915:ILE:HD12	2.16	0.45
9:Fd:696:TYR:OH	9:Fd:745:ILE:HD12	2.17	0.45
7:Fj:28:LEU:HD23	7:Fj:29:ILE:HD13	1.98	0.45
6:Af:230:LEU:HD12	6:Af:231:ARG:N	2.23	0.45
1:Ay:3:ASP:HA	1:Ay:6:LEU:HG	1.97	0.45
5:Bc:233:ARG:HD3	5:Bi:269:SER:OXT	2.17	0.45
6:Bd:109:LYS:O	6:Bd:113:LYS:HG2	2.17	0.45
6:Bd:117:ARG:NE	7:Eh:797:ARG:HD2	2.30	0.45
5:Bo:207:ARG:HH12	5:Bo:209:ILE:HA	1.82	0.45
1:Bq:6:LEU:HD12	1:Bq:7:ALA:N	2.31	0.45
2:Br:9:ARG:HA	2:Br:9:ARG:HD3	1.88	0.45
3:By:2:VAL:HG21	6:Cn:129:LYS:CG	2.45	0.45
6:Ch:238:MET:HE2	6:Cn:250:TYR:CE1	2.51	0.45
1:Ci:12:HIS:CE1	3:Ck:9:TYR:HD2	2.34	0.45
6:Cn:130:LEU:HA	6:Cn:133:ILE:CG1	2.45	0.45
6:Cn:204:ILE:HD12	6:Cn:215:ILE:HG12	1.98	0.45
6:Ct:115:MET:CE	7:En:798:THR:HA	2.47	0.45
6:Ct:179:LEU:O	6:Ct:212:THR:HA	2.16	0.45
1:Dg:3:ASP:O	1:Dg:6:LEU:HD12	2.16	0.45
6:Dl:106:VAL:HA	6:Dl:109:LYS:HZ2	1.81	0.45
6:Dl:191:ILE:HB	6:Dl:206:TRP:CZ2	2.51	0.45
6:Dx:122:LEU:CD2	7:Et:801:MET:HG2	2.47	0.45
5:Ec:221:TRP:CH2	6:Ed:165:THR:HB	2.51	0.45
7:Ep:797:ARG:HA	7:Ep:800:ASP:OD1	2.17	0.45
8:Ey:381:ARG:HG2	8:Ey:381:ARG:HH11	1.81	0.45
8:Ey:382:ARG:NE	8:Ey:418:LEU:HB3	2.31	0.45
8:Ez:76:LEU:HG	8:Ez:80:TYR:CE2	2.52	0.45
8:Ez:331:ASN:O	8:Ez:335:VAL:HG22	2.16	0.45
9:Fb:631:LEU:CD2	9:Fc:628:MET:HE2	2.46	0.45
9:Fc:278:ILE:HD13	9:Fc:513:TYR:CE1	2.51	0.45
9:Fc:930:PHE:HA	9:Fc:933:ILE:CD1	2.43	0.45
9:Fe:692:MET:SD	9:Fe:692:MET:N	2.89	0.45
9:Fe:745:ILE:HD11	9:Fe:916:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fe:757:PRO:HA	9:Fe:760:ILE:HD11	1.99	0.45
6:Al:115:MET:CE	7:Ev:801:MET:HE2	2.47	0.45
6:Ar:179:LEU:O	6:Ar:212:THR:HA	2.17	0.45
6:Bj:158:VAL:HB	6:Bj:256:VAL:HA	1.98	0.45
5:Ca:246:LEU:HD11	5:Ca:255:LEU:HD23	1.99	0.45
6:Ch:204:ILE:HD11	6:Ch:213:LEU:HB3	1.97	0.45
6:Cn:190:PRO:HA	6:Cn:211:ASN:HB3	1.98	0.45
6:Cn:256:VAL:HG12	6:Cn:258:GLY:H	1.82	0.45
6:Ct:166:PRO:HB3	6:Ct:238:MET:HB3	1.97	0.45
5:De:213:GLN:OE1	5:De:223:ILE:HB	2.16	0.45
6:Dx:113:LYS:HA	6:Dx:113:LYS:HD3	1.74	0.45
6:Dx:151:PRO:HA	6:Dx:248:VAL:HG13	1.98	0.45
7:Ei:809:VAL:O	7:Ei:813:LYS:HG2	2.16	0.45
7:Er:792:GLN:CD	7:Er:792:GLN:H	2.24	0.45
7:Er:794:ILE:HG23	7:Er:797:ARG:NH2	2.31	0.45
7:Es:771:ALA:O	7:Es:775:GLN:HG2	2.16	0.45
7:Ev:805:ALA:O	7:Ev:808:LEU:HD12	2.16	0.45
8:Ew:250:ALA:N	8:Ew:251:PRO:HD2	2.32	0.45
8:Ew:384:PHE:HB3	8:Fa:82:TYR:CE2	2.51	0.45
8:Ew:424:TYR:CE2	8:Ex:383:LEU:HD22	2.51	0.45
8:Ex:384:PHE:HA	8:Ex:398:GLN:HE22	1.81	0.45
8:Ey:374:ASN:HA	8:Ey:377:ASN:OD1	2.16	0.45
8:Ey:437:LEU:CD1	8:Ez:436:ILE:HD13	2.47	0.45
8:Ez:78:GLN:O	8:Fa:383:LEU:HD11	2.16	0.45
8:Ez:343:GLY:O	8:Ez:347:LEU:HG	2.16	0.45
8:Ez:359:MET:HE3	8:Ez:367:ASN:O	2.17	0.45
8:Fa:238:PRO:HG2	8:Fa:263:GLN:HB3	1.99	0.45
9:Fb:77:MET:O	9:Fb:81:MET:HG2	2.17	0.45
9:Fb:632:PHE:O	9:Fb:636:VAL:HB	2.16	0.45
9:Fc:117:LYS:HD3	9:Fc:118:ALA:H	1.82	0.45
9:Fc:179:LYS:HB2	9:Fc:492:ASP:HA	1.98	0.45
9:Fd:66:SER:OG	7:Fk:38:LYS:HG3	2.15	0.45
9:Fd:515:LEU:H	9:Fd:515:LEU:HD22	1.81	0.45
9:Ff:251:LEU:HD21	9:Ff:326:GLN:HE22	1.81	0.45
9:Ff:674:GLY:HA2	9:Ff:692:MET:CE	2.43	0.45
7:Fh:4:LYS:HB2	7:Fh:4:LYS:HE2	1.77	0.45
7:Fk:30:ILE:O	7:Fk:34:ILE:HG22	2.16	0.45
6:Af:170:ARG:HD3	6:Af:247:ALA:C	2.42	0.45
5:Ak:219:ARG:NH1	5:Ak:233:ARG:HD3	2.30	0.45
2:An:2:VAL:HG13	3:Ao:1:ARG:HD2	1.98	0.45
5:Bc:211:TYR:CE1	5:Bc:265:SER:HA	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bj:173:GLN:HA	6:Bj:217:ALA:O	2.16	0.45
6:Bj:229:ARG:HH12	6:Bj:231:ARG:HD3	1.80	0.45
2:Br:4:MET:HE1	5:Bu:249:SER:N	2.31	0.45
5:Ca:215:VAL:HG11	5:Ca:252:GLY:HA2	1.98	0.45
6:Cb:106:VAL:HA	6:Cb:109:LYS:HD3	1.99	0.45
6:Cb:188:PRO:HB3	6:Cb:211:ASN:ND2	2.32	0.45
3:Ce:1:ARG:HG2	3:Ce:2:VAL:N	2.31	0.45
5:Cg:219:ARG:NH1	5:Cg:233:ARG:HD3	2.32	0.45
6:Cn:145:PRO:HD3	6:Ct:131:LYS:HE2	1.98	0.45
6:Dl:225:ASN:HD21	6:Dr:176:VAL:N	2.14	0.45
6:Dx:215:ILE:HD12	6:Dx:216:GLN:N	2.31	0.45
5:Ec:213:GLN:HE21	5:Ec:221:TRP:HE3	1.63	0.45
8:Ey:280:ILE:HG21	8:Ey:351:LEU:HD22	1.97	0.45
8:Ey:349:TYR:HB3	8:Ey:435:ARG:HH12	1.80	0.45
8:Ey:374:ASN:C	8:Ey:378:MET:HE2	2.41	0.45
9:Fb:65:ASN:HA	9:Fb:68:VAL:HG22	1.97	0.45
9:Fb:143:TRP:CZ2	9:Fb:147:LEU:HD23	2.52	0.45
9:Fb:718:PRO:HB3	9:Fc:719:LEU:HD12	1.98	0.45
9:Fb:730:MET:CE	9:Ff:708:LEU:HD22	2.46	0.45
9:Fc:41:LEU:HD22	9:Fc:42:PHE:CE1	2.51	0.45
9:Fc:127:PHE:O	9:Fc:131:VAL:HG23	2.16	0.45
9:Fc:514:SER:O	9:Fc:518:THR:HG23	2.16	0.45
9:Fd:833:LEU:O	9:Fd:837:PHE:CD1	2.70	0.45
9:Fe:45:VAL:HG11	9:Fe:129:MET:HG2	1.97	0.45
9:Ff:771:ALA:HA	9:Ff:774:GLU:HB3	1.97	0.45
9:Ff:806:VAL:O	9:Ff:810:LEU:HG	2.17	0.45
7:Fg:24:THR:HA	7:Fg:27:LEU:CD1	2.46	0.45
6:Al:193:ALA:HB3	6:Al:229:ARG:HB3	1.99	0.45
5:Bc:218:GLY:HA3	6:Bj:148:PRO:HD3	1.97	0.45
5:Bc:236:SER:N	5:Bc:243:MET:HE1	2.31	0.45
6:Bp:241:LEU:HD12	6:Bp:241:LEU:O	2.17	0.45
1:Bq:11:TYR:CD2	3:Bs:9:TYR:HB3	2.51	0.45
5:Bu:254:ILE:HB	5:Bu:262:ILE:HG22	1.97	0.45
6:Bv:181:PHE:HD2	6:Bv:230:LEU:HD21	1.82	0.45
6:Cb:105:GLU:HG2	6:Cb:109:LYS:NZ	2.31	0.45
6:Cn:185:THR:HG21	6:Cn:263:ALA:HA	1.99	0.45
5:Cy:255:LEU:HD13	5:Cy:261:VAL:HG13	1.97	0.45
6:Cz:225:ASN:HD21	6:Df:176:VAL:H	1.64	0.45
1:Da:3:ASP:HB2	3:Dc:14:TYR:HB3	1.98	0.45
6:Dl:113:LYS:HA	6:Dl:113:LYS:HD3	1.78	0.45
7:Ek:792:GLN:HA	7:Ek:795:GLN:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Es:779:GLN:HA	7:Es:782:ASN:OD1	2.17	0.45
8:Ew:230:PHE:HA	8:Ew:235:TYR:CD2	2.52	0.45
8:Ex:104:ASP:HA	8:Ex:109:ASN:ND2	2.30	0.45
8:Ey:63:PRO:HA	8:Ez:48:LYS:HZ1	1.82	0.45
8:Ey:346:ASN:HA	8:Ey:435:ARG:HH22	1.80	0.45
8:Ez:62:ASN:HA	8:Fa:48:LYS:NZ	2.31	0.45
8:Ez:428:LEU:O	8:Ez:432:ILE:HG12	2.16	0.45
9:Fb:604:TYR:HA	9:Fb:641:TYR:OH	2.17	0.45
9:Fb:908:VAL:HG23	9:Fb:912:PHE:HE2	1.81	0.45
9:Fc:666:GLY:O	9:Fc:670:ILE:HG12	2.16	0.45
9:Fd:147:LEU:HB2	9:Fd:453:ILE:HG23	1.98	0.45
9:Fd:618:LEU:O	9:Fd:619:PHE:HD2	2.00	0.45
9:Fe:56:ILE:HG13	9:Fe:57:MET:SD	2.56	0.45
9:Ff:203:ASP:HA	9:Ff:206:LEU:HG	1.98	0.45
6:Af:145:PRO:HG2	6:Al:135:GLU:HG2	1.98	0.45
1:Am:6:LEU:HD12	1:Am:7:ALA:N	2.32	0.45
6:Ar:124:PRO:O	6:Ar:128:VAL:HG12	2.17	0.45
6:Ar:128:VAL:O	6:Ar:131:LYS:HB3	2.16	0.45
6:Ar:145:PRO:HD3	6:Ax:131:LYS:HZ3	1.82	0.45
6:Ar:191:ILE:HD12	6:Ar:206:TRP:NE1	2.32	0.45
5:Aw:269:SER:O	6:Ax:150:LYS:HE3	2.17	0.45
5:Bc:207:ARG:HH21	5:Bc:209:ILE:HA	1.82	0.45
5:Bc:247:ILE:HG12	5:Bc:254:ILE:HD12	1.98	0.45
6:Bd:107:ILE:HA	6:Bd:110:LYS:HZ3	1.82	0.45
6:Bd:190:PRO:HA	6:Bd:211:ASN:HB3	1.98	0.45
5:Bu:219:ARG:HH22	6:Cb:150:LYS:HD2	1.82	0.45
6:Ch:190:PRO:O	6:Ch:231:ARG:HG2	2.17	0.45
5:Cm:219:ARG:HG2	6:Ct:148:PRO:HD2	1.97	0.45
6:Cn:128:VAL:CG2	6:Cn:132:GLN:HE21	2.27	0.45
6:Cn:198:ASP:HA	7:Ep:816:GLU:OE1	2.16	0.45
6:Cn:225:ASN:HB3	6:Ct:250:TYR:OH	2.17	0.45
6:Ct:236:PRO:HB2	6:Cz:251:ARG:NH1	2.32	0.45
2:Dh:1:CYS:HA	3:Di:4:ILE:HD13	1.99	0.45
5:Ec:210:TYR:HD1	5:Ec:224:GLY:HA2	1.82	0.45
7:Ej:785:LEU:O	7:Ej:789:LYS:HG2	2.16	0.45
7:Ek:794:ILE:HG23	7:Ek:797:ARG:NH2	2.32	0.45
8:Ey:90:PRO:HB2	8:Ez:246:ASN:ND2	2.31	0.45
8:Fa:219:PRO:HG3	8:Fa:235:TYR:CE2	2.51	0.45
9:Fb:261:LEU:HB3	9:Fb:282:VAL:HG13	1.99	0.45
9:Fb:745:ILE:HG13	9:Fb:745:ILE:H	1.62	0.45
9:Fb:751:TYR:CE2	9:Fc:910:ALA:HA	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fc:170:ALA:HA	9:Fc:177:VAL:HG22	1.98	0.45
9:Fd:263:MET:H	9:Fd:263:MET:HE3	1.82	0.45
9:Fd:747:PHE:HB3	9:Fd:751:TYR:HB2	1.97	0.45
9:Fe:28:PRO:HB2	9:Fe:32:ASP:OD2	2.17	0.45
9:Fe:419:PHE:HE2	9:Fe:575:MET:HB3	1.81	0.45
9:Fe:756:LEU:HA	9:Fe:759:MET:SD	2.55	0.45
9:Ff:812:PRO:HA	9:Ff:815:MET:CE	2.46	0.45
7:Fh:28:LEU:O	7:Fh:32:VAL:HG13	2.16	0.45
4:Ap:2:PHE:HB2	5:Aq:251:GLN:NE2	2.32	0.45
1:As:16:ALA:HA	4:Bb:3:GLY:HA3	1.99	0.45
5:Aw:251:GLN:HB3	5:Aw:253:ARG:CZ	2.47	0.45
6:Ax:237:VAL:HG12	6:Ax:239:LEU:HD11	1.98	0.45
3:Bg:1:ARG:HA	6:Bv:125:GLU:OE2	2.16	0.45
6:Cb:117:ARG:CZ	7:El:801:MET:HE1	2.47	0.45
6:Ch:181:PHE:CD1	6:Ch:189:TRP:HB3	2.52	0.45
6:Cn:131:LYS:HA	7:En:812:TRP:CZ3	2.51	0.45
5:Cs:246:LEU:HD12	5:Cs:247:ILE:N	2.32	0.45
6:Ct:199:PRO:HG3	7:Eq:819:VAL:HG13	1.99	0.45
6:Cz:181:PHE:HD1	6:Cz:254:LEU:HD23	1.82	0.45
5:De:210:TYR:CE2	5:De:238:ILE:HD11	2.51	0.45
5:Dk:216:ILE:C	5:Dk:216:ILE:HD12	2.42	0.45
6:Dr:107:ILE:O	6:Dr:111:ALA:CB	2.64	0.45
6:Dr:238:MET:HE2	6:Dx:178:SER:HB3	1.97	0.45
5:Ec:212:ILE:HD12	5:Ec:222:LEU:HD22	1.99	0.45
7:Ef:781:GLN:HG3	9:Fe:337:GLN:CD	2.42	0.45
7:Eg:806:THR:HA	7:Eg:809:VAL:HG12	1.98	0.45
7:Eh:793:GLU:HA	7:Eh:796:GLN:HE21	1.82	0.45
7: Ei:782:ASN:HA	9:Fd:241:LYS:CD	2.45	0.45
7:Em:792:GLN:HA	7:Em:795:GLN:OE1	2.17	0.45
7:Em:793:GLU:HG2	7:Em:794:ILE:N	2.32	0.45
7:Eo:795:GLN:HA	7:Eo:798:THR:OG1	2.16	0.45
7:Eq:777:ILE:HD13	7:Eq:780:LYS:NZ	2.31	0.45
8:Ew:50:LEU:HB3	8:Ew:52:TYR:CE1	2.52	0.45
8:Ey:67:GLN:HA	8:Ey:413:LYS:HZ2	1.82	0.45
8:Ey:229:ALA:HB1	8:Ey:231:TYR:CE2	2.52	0.45
8:Ey:349:TYR:O	8:Ey:353:LYS:HD2	2.16	0.45
8:Ez:220:PRO:HD2	8:Ez:228:PRO:O	2.17	0.45
8:Ez:352:SER:HA	8:Ez:355:LEU:CD2	2.47	0.45
8:Ez:409:ALA:O	8:Ez:413:LYS:HG3	2.17	0.45
9:Fb:762:THR:O	9:Fb:766:PHE:CD1	2.70	0.45
9:Fb:766:PHE:HE2	9:Fc:925:ILE:HG23	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fc:268:LYS:NZ	9:Fd:404:SER:H	2.12	0.45
9:Fd:376:GLN:HB2	9:Fd:413:LEU:HD11	1.99	0.45
9:Fe:261:LEU:HB2	9:Fe:284:TRP:HZ3	1.81	0.45
9:Ff:599:ASP:OD2	9:Ff:602:LEU:HD13	2.16	0.45
7:Fg:18:ARG:O	7:Fg:21:ILE:HG12	2.17	0.45
6:Af:138:GLU:CD	6:Af:138:GLU:C	2.85	0.45
1:Am:12:HIS:CE1	3:Ao:1:ARG:CZ	3.00	0.45
5:Aq:219:ARG:NH1	6:Ax:150:LYS:HG2	2.31	0.45
5:Aq:221:TRP:CE3	5:Aq:231:THR:HB	2.52	0.45
6:Bd:195:ASP:HB2	6:Bj:214:MET:HE1	1.98	0.45
2:Bf:4:MET:SD	2:Bf:5:ILE:HD13	2.57	0.45
6:Bv:123:ASN:HB2	6:Bv:126:GLN:CD	2.42	0.45
6:Bv:200:SER:CB	7:Em:816:GLU:HG2	2.46	0.45
5:Ca:254:ILE:HD12	5:Ca:262:ILE:HG21	1.98	0.45
6:Cb:219:LYS:HB3	6:Cb:222:ASN:OD1	2.17	0.45
6:Ch:107:ILE:H	6:Ch:107:ILE:HD12	1.81	0.45
6:Ch:226:LEU:N	6:Ch:238:MET:HE1	2.32	0.45
6:Cn:124:PRO:O	6:Cn:128:VAL:HG12	2.16	0.45
6:Cn:141:LYS:HE3	7:Eo:812:TRP:CD2	2.52	0.45
6:Df:107:ILE:HD12	6:Df:107:ILE:H	1.82	0.45
6:Dl:118:ASN:ND2	7:Eq:802:LEU:HD11	2.32	0.45
6:Dl:204:ILE:HD11	6:Dl:213:LEU:HD22	2.00	0.45
6:Dl:238:MET:SD	6:Dl:239:LEU:N	2.90	0.45
6:Dr:111:ALA:HB2	7:Er:797:ARG:CZ	2.47	0.45
6:Dx:154:THR:O	6:Dx:252:VAL:HA	2.17	0.45
6:Ed:115:MET:SD	7:Et:801:MET:HE3	2.57	0.45
6:Ed:188:PRO:HB3	6:Ed:211:ASN:ND2	2.32	0.45
7:Ej:779:GLN:O	7:Ej:783:GLU:HG3	2.17	0.45
7:Eu:804:ALA:O	7:Eu:808:LEU:HG	2.17	0.45
8:Ey:90:PRO:HB2	8:Ez:246:ASN:HD21	1.82	0.45
8:Ez:297:ALA:O	8:Ez:301:LEU:HG	2.16	0.45
8:Ez:336:TYR:HA	8:Ez:339:GLN:OE1	2.17	0.45
8:Fa:347:LEU:HA	8:Fa:350:ILE:HD12	1.99	0.45
9:Fb:355:PRO:HD3	9:Fb:375:LYS:HG2	1.99	0.45
9:Fb:546:LYS:HG3	9:Fb:650:GLU:HG3	1.98	0.45
9:Fd:290:LEU:HD21	9:Fd:329:ARG:HG2	1.99	0.45
9:Fd:296:SER:HA	9:Fd:302:VAL:HG23	1.98	0.45
9:Fd:432:PRO:O	9:Fd:436:LEU:HD23	2.17	0.45
9:Fd:516:LEU:HA	9:Fd:519:TRP:CE3	2.52	0.45
9:Fe:534:ILE:HG22	9:Fe:568:TYR:HE1	1.80	0.45
9:Ff:179:LYS:NZ	9:Ff:494:SER:HB2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ff:724:ILE:O	9:Ff:728:ILE:HG12	2.17	0.45
1:Ag:1:CYS:SG	4:Aj:2:PHE:HB3	2.57	0.44
6:Al:225:ASN:HD21	6:Ar:176:VAL:N	2.15	0.44
5:Bc:264:PHE:HB3	5:Bc:269:SER:HB3	1.99	0.44
6:Bj:132:GLN:NE2	6:Bj:133:ILE:HG23	2.33	0.44
6:Bj:155:SER:HB2	6:Bj:253:ASP:HB2	1.99	0.44
6:Bp:123:ASN:O	6:Bp:126:GLN:HB2	2.17	0.44
6:Cb:194:TYR:CA	6:Cb:229:ARG:HH12	2.30	0.44
1:Ci:16:ALA:HA	4:Cr:3:GLY:HA3	1.99	0.44
6:Ct:236:PRO:HG2	6:Cz:251:ARG:HH11	1.82	0.44
6:Cz:207:ASP:HB3	7:Eq:822:GLU:OE2	2.17	0.44
6:Df:208:LYS:HA	6:Df:208:LYS:HD3	1.90	0.44
6:Dr:248:VAL:HG23	6:Dr:250:TYR:CD1	2.52	0.44
6:Ed:202:PHE:CD1	6:Ed:241:LEU:HD13	2.52	0.44
7:Eh:799:SER:O	7:Eh:803:THR:HG23	2.17	0.44
7:Ev:798:THR:O	7:Ev:799:SER:C	2.59	0.44
8:Ew:211:MET:HB3	8:Ew:287:VAL:O	2.17	0.44
8:Ew:286:GLN:NE2	8:Ew:287:VAL:HG13	2.33	0.44
8:Ew:338:ALA:O	8:Ew:342:VAL:HG23	2.17	0.44
8:Ew:381:ARG:HH12	8:Ew:382:ARG:HD3	1.82	0.44
8:Ex:108:GLY:O	8:Ex:112:ILE:HG12	2.17	0.44
8:Ex:348:TYR:HA	8:Ex:351:LEU:HG	2.00	0.44
8:Ex:440:ASN:O	8:Ex:443:MET:SD	2.75	0.44
8:Ey:205:MET:SD	8:Ey:210:VAL:HB	2.57	0.44
8:Ey:329:TYR:CE1	8:Ey:333:LEU:HD21	2.52	0.44
8:Fa:220:PRO:HD2	8:Fa:228:PRO:O	2.18	0.44
8:Fa:229:ALA:HB1	8:Fa:231:TYR:CE2	2.53	0.44
9:Fb:464:ALA:HB3	9:Fb:761:PHE:HE2	1.82	0.44
9:Fd:54:SER:O	9:Fd:57:MET:HE1	2.17	0.44
9:Fd:179:LYS:HB2	9:Fd:550:LEU:HD13	1.98	0.44
9:Fd:731:ALA:C	9:Fd:733:PRO:HD2	2.42	0.44
9:Fd:912:PHE:C	9:Fd:916:LEU:HD22	2.42	0.44
9:Fe:501:LEU:HB3	9:Fe:527:LEU:HD23	1.99	0.44
9:Fe:714:SER:C	9:Fe:716:LEU:HD23	2.42	0.44
9:Ff:282:VAL:HA	9:Ff:494:SER:HB3	1.98	0.44
7:Fh:34:ILE:HG12	7:Fh:38:LYS:HZ2	1.82	0.44
6:Af:172:SER:HB3	6:Af:248:VAL:HG12	1.97	0.44
6:Bj:205:GLN:OE1	7:Ej:818:GLN:HG2	2.18	0.44
5:Bu:245:LYS:HE3	5:Bu:257:SER:HA	2.00	0.44
6:Bv:203:ASN:O	6:Bv:215:ILE:HD12	2.16	0.44
6:Bv:238:MET:HB3	6:Cb:250:TYR:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Cn:128:VAL:O	6:Cn:132:GLN:HG2	2.17	0.44
6:Cn:229:ARG:HD3	6:Cn:230:LEU:N	2.32	0.44
5:Dk:210:TYR:CD2	5:Dk:238:ILE:HD11	2.52	0.44
6:Ed:190:PRO:O	6:Ed:231:ARG:HG2	2.18	0.44
6:Ed:251:ARG:HE	6:Ed:251:ARG:HB3	1.64	0.44
7:Eh:793:GLU:O	7:Eh:797:ARG:HG3	2.18	0.44
7:Eq:779:GLN:HA	7:Eq:782:ASN:HD22	1.82	0.44
8:Ew:243:LEU:HD11	8:Fa:338:ALA:HB2	2.00	0.44
8:Ew:399:TRP:HE1	8:Ew:414:GLU:HG2	1.82	0.44
8:Ex:177:ALA:O	8:Ex:181:ILE:HG12	2.17	0.44
8:Ex:436:ILE:O	8:Ex:437:LEU:C	2.59	0.44
8:Ey:84:THR:HB	8:Ey:371:GLN:HA	1.98	0.44
8:Ey:277:LEU:HA	8:Ey:280:ILE:HG22	1.99	0.44
8:Ey:414:GLU:O	8:Ey:417:ILE:HG13	2.17	0.44
8:Ey:424:TYR:CZ	8:Ez:383:LEU:HB3	2.53	0.44
8:Ez:331:ASN:HA	8:Ez:334:ARG:HE	1.82	0.44
9:Fb:755:VAL:O	9:Fb:758:TYR:HB3	2.16	0.44
9:Fc:121:TYR:HB3	9:Fc:125:GLN:HE21	1.82	0.44
9:Fc:378:PHE:CD1	9:Fc:414:PHE:HE2	2.36	0.44
9:Fc:381:PRO:HD3	9:Fc:399:TRP:CZ3	2.52	0.44
9:Fc:801:ALA:O	9:Fc:805:LEU:CB	2.65	0.44
9:Fc:818:GLY:C	9:Fc:933:ILE:HG13	2.42	0.44
9:Fd:593:LEU:HD21	9:Fd:905:TRP:HB3	1.99	0.44
9:Fd:670:ILE:HD12	9:Fd:696:TYR:HD2	1.80	0.44
9:Fd:674:GLY:HA2	9:Fd:677:THR:HG22	1.99	0.44
9:Fe:164:THR:HG21	9:Fe:583:PRO:HA	1.99	0.44
9:Fe:350:MET:SD	9:Fe:567:VAL:HG22	2.57	0.44
9:Fe:378:PHE:CD1	9:Fe:414:PHE:HE2	2.35	0.44
9:Ff:824:ALA:O	9:Ff:827:TYR:CB	2.56	0.44
9:Ff:829:GLY:O	9:Ff:832:ILE:HG12	2.16	0.44
9:Ff:831:TRP:CD1	9:Ff:831:TRP:N	2.84	0.44
9:Ff:922:TYR:C	9:Ff:922:TYR:CD1	2.95	0.44
5:Ae:210:TYR:HA	5:Ae:224:GLY:HA2	2.00	0.44
5:Bc:253:ARG:HD3	5:Bc:255:LEU:HD13	1.99	0.44
6:Bj:141:LYS:NZ	7:Ej:812:TRP:CD1	2.85	0.44
6:Bj:220:LEU:HD12	6:Bp:138:GLU:OE1	2.17	0.44
6:Bp:193:ALA:HB3	6:Bp:229:ARG:HD2	2.00	0.44
2:Br:4:MET:HE1	5:Bu:248:ASP:OD1	2.16	0.44
6:Cb:122:LEU:HB3	6:Cb:126:GLN:HB2	2.00	0.44
6:Cb:126:GLN:O	6:Cb:129:LYS:HB2	2.17	0.44
6:Cb:178:SER:O	6:Cb:251:ARG:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cg:246:LEU:HD12	5:Cg:247:ILE:H	1.82	0.44
6:Ch:112:PHE:HA	6:Ch:115:MET:HB2	2.00	0.44
6:Cz:221:TYR:HE1	6:Df:138:GLU:HG3	1.80	0.44
6:Dr:115:MET:O	6:Dr:119:LEU:HG	2.17	0.44
1:Ds:6:LEU:HA	1:Ds:9:LEU:HB3	2.00	0.44
6:Dx:206:TRP:HB2	6:Dx:213:LEU:HD23	2.00	0.44
6:Ed:193:ALA:HB3	6:Ed:229:ARG:HD2	1.99	0.44
6:Ed:196:LEU:HD21	6:Ed:202:PHE:O	2.17	0.44
7:Ef:779:GLN:HA	7:Ef:782:ASN:OD1	2.18	0.44
7:Eq:780:LYS:HA	7:Eq:783:GLU:CD	2.42	0.44
8:Ew:281:ARG:HB3	8:Ew:286:GLN:HE21	1.82	0.44
8:Ex:173:PRO:HB2	8:Ex:348:TYR:CE1	2.51	0.44
8:Ex:334:ARG:HD3	8:Ey:282:TYR:HE1	1.82	0.44
8:Ex:420:ALA:O	8:Ex:424:TYR:HD1	2.01	0.44
8:Ez:63:PRO:HA	8:Fa:48:LYS:HZ1	1.82	0.44
8:Ez:188:SER:O	8:Ez:191:MET:HB3	2.17	0.44
8:Ez:238:PRO:HB3	8:Ez:262:GLY:HA3	1.99	0.44
8:Fa:195:GLN:C	8:Fa:196:LYS:HD3	2.41	0.44
8:Fa:211:MET:HB3	8:Fa:287:VAL:O	2.17	0.44
8:Fa:297:ALA:O	8:Fa:301:LEU:HG	2.17	0.44
9:Fb:434:LEU:O	9:Fb:438:ARG:HG3	2.17	0.44
9:Fc:33:LEU:HA	9:Fc:36:VAL:CG1	2.48	0.44
9:Fc:220:PRO:O	9:Fc:224:THR:HG23	2.17	0.44
9:Fc:837:PHE:CE2	9:Fc:918:TYR:HB2	2.52	0.44
9:Fd:84:THR:HA	9:Fd:87:THR:HG22	1.99	0.44
9:Fd:212:PRO:HB3	9:Fd:215:GLY:O	2.17	0.44
9:Fd:426:TYR:HA	9:Fd:429:ILE:HG22	2.00	0.44
9:Fd:579:LEU:HB3	9:Fd:580:PRO:HD2	1.99	0.44
9:Fd:708:LEU:HA	9:Fe:730:MET:SD	2.58	0.44
9:Fe:167:LEU:HD12	9:Fe:585:ILE:HD11	1.97	0.44
9:Fe:931:THR:O	9:Fe:935:HIS:HB3	2.18	0.44
9:Ff:242:LYS:HE3	9:Ff:265:ASN:HD22	1.82	0.44
9:Ff:266:PHE:HB3	9:Ff:270:SER:OG	2.17	0.44
9:Ff:776:MET:HE2	9:Ff:776:MET:C	2.42	0.44
7:Fh:35:GLY:HA2	7:Fh:38:LYS:NZ	2.32	0.44
6:Al:131:LYS:O	6:Al:135:GLU:HG3	2.17	0.44
6:Ax:184:SER:HA	6:Ax:255:ARG:NH1	2.32	0.44
5:Ca:218:GLY:HA3	6:Ch:148:PRO:HD3	2.00	0.44
5:Ca:219:ARG:HH12	5:Ca:233:ARG:HD3	1.82	0.44
6:Cn:230:LEU:HD23	6:Cn:233:LEU:HD12	1.99	0.44
6:Ct:238:MET:CE	6:Cz:251:ARG:HG3	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:De:212:ILE:HG23	5:De:222:LEU:HD22	1.98	0.44
6:Df:128:VAL:O	6:Df:132:GLN:HG3	2.18	0.44
2:Dh:2:VAL:HG22	3:Di:1:ARG:NE	2.32	0.44
3:Di:7:THR:HB	3:Di:9:TYR:CE2	2.53	0.44
6:Dr:238:MET:CE	6:Dx:251:ARG:HB3	2.43	0.44
7:Es:773:GLN:HG3	9:Fb:580:PRO:HB2	2.00	0.44
8:Ew:348:TYR:HD1	8:Ew:351:LEU:HD23	1.83	0.44
8:Ew:359:MET:HE3	8:Ew:367:ASN:C	2.42	0.44
8:Ex:50:LEU:HB3	8:Ex:52:TYR:HE2	1.82	0.44
8:Ex:84:THR:O	8:Ex:88:ALA:CB	2.65	0.44
8:Ey:104:ASP:HA	8:Ey:109:ASN:HD22	1.81	0.44
8:Ey:408:PRO:HA	8:Ey:411:VAL:HG22	1.98	0.44
8:Ey:431:GLN:HA	8:Ey:434:GLU:OE1	2.17	0.44
8:Ez:105:LYS:HE2	8:Fa:368:ILE:N	2.29	0.44
8:Fa:382:ARG:HB3	8:Fa:399:TRP:HE3	1.76	0.44
9:Fb:267:ASP:OD1	9:Fb:267:ASP:C	2.61	0.44
9:Fb:354:ASP:OD2	9:Fb:373:ILE:HD12	2.17	0.44
9:Fb:615:VAL:O	9:Fb:621:SER:HA	2.17	0.44
9:Fc:261:LEU:HB2	9:Fc:284:TRP:CH2	2.52	0.44
9:Fc:429:ILE:C	9:Fc:430:MET:HE2	2.42	0.44
9:Fc:788:HIS:ND1	9:Fc:790:GLU:HG3	2.32	0.44
9:Fc:936:LEU:HA	9:Fc:939:LYS:HD2	1.99	0.44
9:Fd:100:SER:HB3	7:Fk:16:ARG:HH12	1.82	0.44
9:Fe:57:MET:HE1	9:Ff:824:ALA:CB	2.47	0.44
9:Fe:200:ALA:O	9:Fe:204:LEU:HD23	2.17	0.44
9:Fe:448:LYS:HA	9:Fe:451:ASP:OD2	2.17	0.44
9:Fe:659:PHE:CE1	9:Fe:707:LEU:HD22	2.53	0.44
9:Fe:667:MET:HG3	9:Fe:911:PHE:CE2	2.53	0.44
9:Ff:912:PHE:O	9:Ff:916:LEU:HG	2.18	0.44
6:Af:115:MET:HE1	7:Eu:802:LEU:HA	2.00	0.44
6:Af:176:VAL:H	6:Ed:225:ASN:HD21	1.66	0.44
6:Af:200:SER:H	7:Ef:816:GLU:HG3	1.82	0.44
1:Ag:12:HIS:CE1	3:Ai:1:ARG:CZ	3.00	0.44
6:Al:171:LEU:HD23	6:Al:202:PHE:CE2	2.53	0.44
6:Bd:156:GLN:HE22	6:Bd:158:VAL:HG22	1.82	0.44
3:Bm:7:THR:HB	3:Bm:9:TYR:CE2	2.53	0.44
2:Br:1:CYS:HA	3:Bs:4:ILE:HD13	2.00	0.44
5:Cm:250:LEU:HD12	5:Cm:251:GLN:HG3	2.00	0.44
5:Cs:216:ILE:C	5:Cs:216:ILE:HD12	2.43	0.44
2:Cv:2:VAL:HG22	3:Cw:1:ARG:NE	2.31	0.44
5:Cy:234:GLU:HA	5:Cy:247:ILE:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Da:9:LEU:HB2	2:Db:2:VAL:HG21	1.99	0.44
5:Dk:216:ILE:HD11	6:Dr:148:PRO:HG2	1.99	0.44
5:Dk:256:THR:HG22	5:Dk:260:GLN:O	2.18	0.44
5:Ec:251:GLN:HB2	5:Ec:253:ARG:HG2	2.00	0.44
6:Ed:155:SER:HB2	6:Ed:253:ASP:OD2	2.18	0.44
7:Es:810:GLN:HA	7:Es:813:LYS:HE3	1.99	0.44
8:Ew:429:ASP:HA	8:Ew:432:ILE:HG12	2.00	0.44
8:Ey:294:LYS:O	8:Ey:298:TYR:HB3	2.16	0.44
8:Ez:118:THR:HA	8:Ez:121:LYS:HG2	1.99	0.44
8:Fa:216:GLY:HA3	8:Fa:265:SER:O	2.17	0.44
9:Fb:334:ILE:HD12	9:Fb:334:ILE:HA	1.84	0.44
9:Fb:528:ILE:HA	9:Fb:531:GLN:HG2	1.99	0.44
9:Fb:800:PHE:O	9:Fb:804:ILE:HG22	2.17	0.44
9:Fd:115:ILE:HG12	9:Fd:123:MET:HE1	1.98	0.44
9:Fd:751:TYR:CE2	9:Fe:910:ALA:HA	2.53	0.44
9:Fd:915:ILE:O	9:Fd:919:THR:HG23	2.17	0.44
9:Ff:128:PHE:CD2	9:Ff:779:ALA:HB2	2.52	0.44
9:Ff:651:MET:O	9:Ff:655:ILE:HG12	2.17	0.44
6:Af:129:LYS:HE3	6:Al:112:PHE:CD1	2.53	0.44
2:An:2:VAL:HA	3:Ao:1:ARG:HH21	1.82	0.44
6:Ar:171:LEU:HD11	6:Ar:241:LEU:HD12	2.00	0.44
6:Ax:121:PRO:HB2	7:Eg:801:MET:CE	2.47	0.44
1:Ay:4:ALA:HB2	3:Ba:14:TYR:HB2	2.00	0.44
5:Bc:219:ARG:HG2	6:Bj:148:PRO:HD2	1.98	0.44
5:Bi:251:GLN:HB3	5:Bi:253:ARG:NH2	2.32	0.44
5:Bu:218:GLY:HA3	6:Cb:148:PRO:HD3	1.99	0.44
6:Cb:156:GLN:NE2	6:Cb:167:PRO:HG3	2.33	0.44
6:Ch:123:ASN:CG	6:Ch:124:PRO:HD2	2.42	0.44
1:Cu:15:ASN:HB3	2:Db:9:ARG:NH1	2.32	0.44
2:Cv:6:GLY:HA3	6:Dl:125:GLU:HB3	1.99	0.44
6:Cz:170:ARG:HD2	6:Cz:247:ALA:CB	2.47	0.44
6:Df:130:LEU:HD23	7:Eq:808:LEU:HD12	1.99	0.44
7:Eg:808:LEU:O	7:Eg:812:TRP:CD1	2.70	0.44
7:Eo:804:ALA:O	7:Eo:808:LEU:HG	2.17	0.44
7:Er:800:ASP:OD1	7:Er:800:ASP:C	2.61	0.44
8:Ew:199:LEU:HD12	8:Ew:199:LEU:H	1.81	0.44
8:Ew:246:ASN:ND2	8:Fa:91:VAL:HA	2.33	0.44
8:Ew:418:LEU:HD12	8:Ew:419:LEU:N	2.32	0.44
8:Ex:330:PHE:HB2	8:Ex:334:ARG:NH1	2.33	0.44
8:Ex:430:ARG:CZ	8:Ey:428:LEU:HB2	2.48	0.44
8:Ey:92:ASP:OD2	8:Ez:244:ASN:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ez:102:VAL:HA	8:Fa:253:LEU:HD21	2.00	0.44
8:Ez:298:TYR:O	8:Ez:301:LEU:HD12	2.17	0.44
8:Fa:411:VAL:O	8:Fa:415:ILE:HG13	2.17	0.44
9:Fb:205:TYR:HA	9:Fb:208:GLN:NE2	2.31	0.44
9:Fb:264:PRO:HD3	9:Fb:278:ILE:HG22	2.00	0.44
9:Fb:434:LEU:HG	9:Fb:438:ARG:HE	1.82	0.44
9:Fb:707:LEU:HA	9:Fb:710:MET:SD	2.58	0.44
9:Fd:205:TYR:HB3	9:Fd:214:CYS:SG	2.58	0.44
9:Fd:299:LYS:HG2	9:Fd:299:LYS:H	1.61	0.44
9:Fe:196:LYS:HE3	9:Fe:357:PHE:CD1	2.53	0.44
9:Fe:527:LEU:O	9:Fe:531:GLN:HG2	2.18	0.44
9:Fe:932:LEU:HB3	9:Fe:936:LEU:HD23	1.99	0.44
9:Ff:147:LEU:HA	9:Ff:150:LEU:HD23	2.00	0.44
9:Ff:936:LEU:O	9:Ff:939:LYS:HG2	2.17	0.44
6:Ar:205:GLN:HB2	7:Eg:820:TYR:CE2	2.51	0.44
2:Az:4:MET:HE2	5:Bc:250:LEU:HB2	1.99	0.44
5:Bi:247:ILE:N	5:Bi:247:ILE:HD12	2.33	0.44
5:Ca:253:ARG:HG3	5:Ca:263:LYS:CD	2.48	0.44
6:Cb:107:ILE:HA	6:Cb:110:LYS:NZ	2.33	0.44
6:Cn:160:LEU:HD11	6:Cn:237:VAL:HG22	1.99	0.44
6:Cn:196:LEU:HD12	6:Cn:204:ILE:HG12	1.99	0.44
5:Cs:245:LYS:HZ1	5:Cs:257:SER:HB3	1.83	0.44
6:Df:193:ALA:HB1	7:Es:820:TYR:HE2	1.81	0.44
6:Dl:124:PRO:O	6:Dl:128:VAL:HG12	2.18	0.44
6:Dr:113:LYS:HD3	6:Dr:113:LYS:HA	1.64	0.44
2:Dt:4:MET:SD	2:Dt:4:MET:O	2.76	0.44
6:Ed:126:GLN:HA	6:Ed:129:LYS:HG2	2.00	0.44
7:Ei:779:GLN:HA	7:Ei:782:ASN:HB3	1.98	0.44
8:Ew:139:ASN:OD1	8:Ew:141:LEU:HG	2.17	0.44
8:Ew:298:TYR:CZ	8:Ex:230:PHE:HE2	2.36	0.44
8:Ew:404:ASN:OD1	8:Fa:67:GLN:HB3	2.18	0.44
8:Ey:144:GLN:NE2	8:Ey:205:MET:HG3	2.33	0.44
8:Ey:318:GLN:HA	8:Ey:321:GLN:HB3	1.98	0.44
8:Ez:353:LYS:HD2	8:Ez:371:GLN:HG2	2.00	0.44
8:Fa:77:VAL:O	8:Fa:80:TYR:HB2	2.17	0.44
8:Fa:268:THR:HB	8:Fa:270:LYS:NZ	2.33	0.44
9:Fb:546:LYS:HG3	9:Fb:650:GLU:CD	2.42	0.44
9:Fc:69:LEU:HD21	9:Fc:114:LEU:HB3	1.98	0.44
9:Fc:124:MET:HA	9:Fc:127:PHE:CE1	2.52	0.44
9:Fc:178:ALA:HB3	9:Fc:179:LYS:NZ	2.33	0.44
9:Fc:240:VAL:HG12	9:Fc:333:ALA:HB1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fd:148:SER:O	9:Fd:152:ARG:HG2	2.17	0.44
9:Fd:325:LEU:HG	9:Fd:329:ARG:CZ	2.48	0.44
9:Fd:414:PHE:HB3	9:Fd:418:GLU:OE1	2.18	0.44
9:Fd:725:PHE:HA	9:Fd:728:ILE:HG13	1.99	0.44
9:Fe:143:TRP:CE3	9:Fe:147:LEU:HD21	2.52	0.44
9:Fe:370:PHE:CE2	9:Fe:562:PRO:HA	2.52	0.44
9:Fe:559:VAL:HG21	9:Fe:563:LEU:HB3	2.00	0.44
9:Ff:57:MET:HA	9:Ff:60:MET:HE3	2.00	0.44
9:Ff:72:GLY:HA3	9:Ff:784:LEU:HD21	2.00	0.44
9:Ff:612:CYS:HB2	9:Ff:626:ARG:NE	2.30	0.44
2:Ab:4:MET:CE	5:Ae:250:LEU:HG	2.48	0.44
6:Al:112:PHE:CD2	6:Al:113:LYS:HD3	2.52	0.44
1:Am:16:ALA:HA	4:Av:3:GLY:HA3	2.00	0.44
2:An:4:MET:SD	5:Aq:248:ASP:HA	2.57	0.44
5:Aq:213:GLN:O	6:Ar:170:ARG:HD3	2.18	0.44
5:Aq:219:ARG:HG2	6:Ax:148:PRO:HG2	1.99	0.44
6:Ax:106:VAL:HA	6:Ax:109:LYS:HG2	2.00	0.44
6:Bd:208:LYS:HZ3	7:Ej:821:THR:HG22	1.83	0.44
6:Bp:196:LEU:HD22	6:Bp:199:PRO:CA	2.48	0.44
6:Ch:145:PRO:HB3	6:Cn:132:GLN:OE1	2.17	0.44
6:Cz:178:SER:OG	6:Cz:212:THR:HG23	2.18	0.44
2:Dh:5:ILE:HG12	6:Dx:124:PRO:HB3	1.99	0.44
6:Di:134:TYR:O	6:Di:138:GLU:HG3	2.17	0.44
6:Di:179:LEU:HB3	6:Di:181:PHE:HE1	1.80	0.44
6:Di:189:TRP:CE2	6:Di:260:GLY:HA2	2.53	0.44
6:Dr:115:MET:SD	7:Er:801:MET:HG2	2.58	0.44
6:Dx:189:TRP:CG	6:Dx:230:LEU:HD13	2.52	0.44
7:Er:814:GLN:N	7:Er:814:GLN:CD	2.76	0.44
7:Et:789:LYS:HE3	9:Ff:267:ASP:OD2	2.18	0.44
7:Et:789:LYS:HZ2	7:Et:792:GLN:HE22	1.65	0.44
8:Ew:253:LEU:HD22	8:Ew:373:LEU:HD12	1.98	0.44
8:Ew:419:LEU:HD13	8:Ex:419:LEU:HD21	1.99	0.44
8:Ey:246:ASN:HD21	8:Ey:250:ALA:HB3	1.83	0.44
8:Ez:277:LEU:HD21	8:Ez:281:ARG:NH2	2.32	0.44
9:Fb:65:ASN:O	9:Fb:69:LEU:HG	2.18	0.44
9:Fc:546:LYS:HD3	9:Fc:546:LYS:N	2.33	0.44
9:Fc:782:VAL:O	9:Fc:786:VAL:HG23	2.17	0.44
9:Fd:697:ILE:HD12	9:Fe:909:TYR:CD1	2.40	0.44
9:Fe:77:MET:HE1	7:Fj:32:VAL:HG11	1.99	0.44
9:Fe:632:PHE:CZ	9:Ff:628:MET:HB3	2.51	0.44
9:Fe:807:ASN:HB2	9:Fe:941:LEU:HD21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fe:926:VAL:HG13	9:Fe:930:PHE:CE2	2.50	0.44
7:Fh:36:PHE:O	7:Fh:40:ARG:HG2	2.18	0.44
6:Af:196:LEU:HA	6:Af:226:LEU:HD13	2.00	0.44
6:Al:225:ASN:HD21	6:Ar:176:VAL:H	1.64	0.44
6:Ar:135:GLU:HA	6:Ar:138:GLU:OE2	2.17	0.44
6:Ax:182:LEU:HD11	6:Ax:186:GLY:HA2	1.99	0.44
3:Ba:13:LYS:HA	3:Ba:13:LYS:HD2	1.70	0.44
6:Bd:225:ASN:HB3	6:Bj:175:PHE:CD2	2.53	0.44
5:Bi:248:ASP:HB3	5:Bi:253:ARG:HG2	1.99	0.44
6:Bj:230:LEU:HB3	6:Bj:233:LEU:CD1	2.47	0.44
6:Bp:106:VAL:C	6:Bp:110:LYS:HZ1	2.26	0.44
6:Ch:128:VAL:O	6:Ch:132:GLN:HG2	2.16	0.44
6:Ch:186:GLY:HA2	6:Ch:255:ARG:NH2	2.33	0.44
1:Ci:12:HIS:NE2	3:Ck:9:TYR:HB2	2.33	0.44
6:Cz:202:PHE:HA	6:Cz:216:GLN:O	2.18	0.44
5:Dk:233:ARG:HG3	5:Dk:234:GLU:OE1	2.18	0.44
5:Dk:264:PHE:HD2	5:Dk:265:SER:N	2.13	0.44
6:Dl:202:PHE:HB3	6:Dl:215:ILE:HG23	2.00	0.44
6:Dl:238:MET:N	6:Dr:251:ARG:HH12	2.15	0.44
6:Dr:173:GLN:HE21	7:Et:815:VAL:CG2	2.24	0.44
6:Dx:105:GLU:OE1	6:Dx:105:GLU:N	2.51	0.44
6:Ed:205:GLN:OE1	6:Ed:214:MET:HG3	2.17	0.44
7:Eh:792:GLN:O	7:Eh:795:GLN:HG3	2.17	0.44
7:Ej:812:TRP:CD1	7:Ej:812:TRP:N	2.85	0.44
7:Em:808:LEU:HA	7:Em:811:ASP:OD2	2.18	0.44
7:Eq:809:VAL:O	7:Eq:813:LYS:HG3	2.17	0.44
7:Er:822:GLU:N	7:Er:822:GLU:OE2	2.51	0.44
7:Eu:776:ALA:HA	7:Eu:779:GLN:NE2	2.33	0.44
8:Ex:243:LEU:HD21	8:Ex:282:TYR:CD1	2.52	0.44
8:Ey:55:THR:HA	8:Ez:42:TYR:CZ	2.53	0.44
8:Ey:349:TYR:HE1	8:Ey:431:GLN:NE2	2.15	0.44
8:Ez:253:LEU:C	8:Ez:254:MET:HE2	2.42	0.44
8:Ez:263:GLN:H	8:Ez:268:THR:CG2	2.30	0.44
8:Ez:397:GLN:HB3	8:Ez:401:LYS:HE2	1.99	0.44
8:Fa:36:THR:HA	8:Fa:39:LEU:CD2	2.46	0.44
9:Fb:243:GLN:HG2	9:Fb:333:ALA:HB2	2.00	0.44
9:Fb:647:ILE:O	9:Fb:651:MET:HG2	2.18	0.44
9:Fb:725:PHE:O	9:Fb:729:MET:HG3	2.18	0.44
9:Fc:124:MET:HE2	9:Fc:124:MET:HB2	1.89	0.44
9:Fd:615:VAL:HG11	9:Fd:624:LEU:HD12	2.00	0.44
9:Fe:60:MET:HA	9:Fe:63:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fe:64:PHE:O	9:Fe:68:VAL:HG13	2.18	0.44
9:Fe:461:TRP:CZ3	9:Fe:462:ILE:HG22	2.53	0.44
9:Ff:101:ILE:O	9:Ff:104:PRO:HD2	2.18	0.44
9:Ff:186:GLY:O	9:Ff:189:ILE:HG22	2.18	0.44
9:Ff:534:ILE:HG22	9:Ff:568:TYR:CD2	2.53	0.44
9:Ff:575:MET:HE2	9:Ff:575:MET:C	2.43	0.44
9:Ff:814:LEU:HD12	9:Ff:937:PRO:HB3	2.00	0.44
6:Af:126:GLN:CA	6:Af:129:LYS:HE2	2.40	0.43
6:Af:215:ILE:HD13	6:Af:215:ILE:HA	1.88	0.43
6:Al:166:PRO:HG3	6:Ar:250:TYR:CD2	2.53	0.43
6:Ar:138:GLU:C	6:Ar:141:LYS:HB3	2.42	0.43
5:Aw:219:ARG:HA	5:Aw:232:VAL:O	2.19	0.43
6:Bp:149:PRO:HA	6:Bp:246:LYS:O	2.18	0.43
5:Cg:213:GLN:OE1	5:Cg:213:GLN:HA	2.18	0.43
6:Ch:129:LYS:O	6:Ch:133:ILE:HG22	2.17	0.43
6:Ch:171:LEU:HD21	6:Ch:241:LEU:HB3	2.00	0.43
6:Cn:234:ASN:ND2	6:Ct:182:LEU:HD21	2.31	0.43
5:Cy:246:LEU:HB2	5:Cy:255:LEU:HD23	1.99	0.43
6:Cz:140:ALA:HB1	6:Df:127:VAL:HB	2.00	0.43
6:Cz:229:ARG:HH12	6:Df:212:THR:HG21	1.82	0.43
6:Df:112:PHE:O	6:Df:115:MET:HB2	2.16	0.43
6:Dr:181:PHE:HD1	6:Dr:230:LEU:HD11	1.83	0.43
6:Dr:195:ASP:O	6:Dr:226:LEU:HD12	2.16	0.43
6:Ed:171:LEU:HD21	6:Ed:215:ILE:HG21	1.99	0.43
7:En:797:ARG:NH1	7:En:801:MET:HE1	2.33	0.43
8:Ew:343:GLY:O	8:Ew:347:LEU:HG	2.18	0.43
8:Ex:220:PRO:HD2	8:Ex:228:PRO:O	2.18	0.43
8:Ey:230:PHE:CD1	8:Ey:231:TYR:HD2	2.36	0.43
8:Ey:413:LYS:NZ	8:Ez:404:ASN:HA	2.15	0.43
9:Fc:437:ILE:HD12	9:Fc:437:ILE:HA	1.88	0.43
9:Fc:725:PHE:HE1	9:Fd:729:MET:HG2	1.83	0.43
9:Fc:729:MET:O	9:Fc:732:MET:HB3	2.18	0.43
9:Fc:753:ILE:HG13	9:Fc:922:TYR:CZ	2.53	0.43
9:Fd:176:GLY:HA3	9:Fd:492:ASP:HB2	2.00	0.43
9:Fd:337:GLN:O	9:Fd:341:VAL:HG12	2.18	0.43
9:Fd:468:PHE:CD1	9:Fd:757:PRO:HG2	2.53	0.43
9:Fd:813:SER:HA	9:Fd:816:ILE:HG22	2.00	0.43
9:Fe:85:MET:C	9:Fe:85:MET:HE2	2.43	0.43
9:Fe:196:LYS:HE3	9:Fe:357:PHE:HD1	1.82	0.43
9:Fe:196:LYS:HD2	9:Fe:357:PHE:O	2.18	0.43
9:Fe:620:PHE:CZ	9:Ff:615:VAL:HA	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fe:644:PHE:CE1	9:Fe:718:PRO:HB2	2.53	0.43
9:Ff:35:VAL:HB	9:Ff:49:LEU:HD21	2.00	0.43
6:Af:130:LEU:HA	6:Af:133:ILE:CG2	2.48	0.43
2:Bf:4:MET:HE2	4:Bh:2:PHE:CE1	2.53	0.43
6:Cb:229:ARG:HB3	6:Cb:236:PRO:HB3	1.99	0.43
6:Ch:117:ARG:O	6:Ch:121:PRO:HA	2.18	0.43
6:Ct:229:ARG:HD2	6:Ct:236:PRO:HB3	2.00	0.43
6:Ct:242:ILE:HG13	6:Ct:245:GLN:HE22	1.79	0.43
6:Cz:242:ILE:HD12	6:Cz:243:PRO:HD2	2.00	0.43
6:Dr:108:ASP:O	6:Dr:112:PHE:CD1	2.70	0.43
2:Dt:5:ILE:HD13	6:Ed:140:ALA:HB2	2.01	0.43
6:Dx:117:ARG:NE	7:Et:797:ARG:HG3	2.32	0.43
1:Dy:11:TYR:CD2	3:Ea:9:TYR:HB3	2.53	0.43
7:Ei:793:GLU:HA	7:Ei:796:GLN:HG3	2.00	0.43
7:Es:788:GLN:HB2	7:Es:789:LYS:HD2	2.01	0.43
8:Ey:78:GLN:HE22	8:Ez:384:PHE:HB2	1.83	0.43
8:Ey:424:TYR:O	8:Ey:427:TYR:HB3	2.19	0.43
8:Ez:211:MET:C	8:Ez:211:MET:HE2	2.43	0.43
8:Fa:271:SER:O	8:Fa:275:GLN:HG3	2.18	0.43
8:Fa:451:ALA:HA	9:Fe:619:PHE:CE2	2.53	0.43
9:Fc:164:THR:HA	9:Fc:167:LEU:HG	2.01	0.43
9:Fc:612:CYS:HB2	9:Fc:623:CYS:HB2	1.42	0.43
9:Fd:68:VAL:HG21	9:Fd:780:PRO:HB2	2.00	0.43
9:Fd:913:PHE:O	9:Fd:917:ILE:HG22	2.18	0.43
9:Fe:469:PHE:CE2	9:Ff:843:TYR:HB3	2.53	0.43
9:Ff:65:ASN:O	9:Ff:69:LEU:HG	2.18	0.43
5:Ae:213:GLN:HG2	5:Ae:221:TRP:O	2.18	0.43
6:Af:189:TRP:CE2	6:Af:260:GLY:HA2	2.53	0.43
6:Al:129:LYS:HG3	6:Ar:112:PHE:HZ	1.82	0.43
6:Bj:191:ILE:HB	6:Bj:206:TRP:CZ2	2.53	0.43
6:Bp:115:MET:N	6:Bp:115:MET:SD	2.90	0.43
6:Bp:134:TYR:HA	6:Bv:120:TYR:CE2	2.52	0.43
6:Bp:145:PRO:HB3	6:Bv:132:GLN:HE22	1.84	0.43
6:Bp:238:MET:CE	6:Bv:178:SER:HB3	2.42	0.43
3:Bs:7:THR:HB	3:Bs:9:TYR:CE2	2.53	0.43
5:Bu:216:ILE:HD13	6:Bv:223:TYR:CE2	2.53	0.43
2:Bx:6:GLY:CA	6:Cn:125:GLU:HG3	2.46	0.43
6:Ch:115:MET:CE	7:El:798:THR:HA	2.48	0.43
6:Ch:186:GLY:HA2	6:Ch:255:ARG:HH22	1.82	0.43
5:Cm:232:VAL:HG23	5:Cm:236:SER:OG	2.18	0.43
2:Cp:6:GLY:HA2	6:Df:125:GLU:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Dl:205:GLN:OE1	7:Es:820:TYR:HB2	2.18	0.43
2:Dn:2:VAL:HA	3:Do:1:ARG:NH2	2.33	0.43
3:Do:13:LYS:HD3	3:Do:13:LYS:HA	1.69	0.43
5:Dw:219:ARG:HH11	5:Dw:233:ARG:HE	1.65	0.43
6:Dx:122:LEU:HB3	6:Dx:127:VAL:CG2	2.48	0.43
7:Ef:781:GLN:HG3	9:Fe:337:GLN:CG	2.48	0.43
7:Eh:777:ILE:HG21	9:Fe:580:PRO:HB3	2.01	0.43
7:Ei:814:GLN:HE22	7:Ei:816:GLU:HB3	1.83	0.43
7:Ej:797:ARG:HA	7:Ej:800:ASP:OD2	2.18	0.43
7:Eu:776:ALA:HA	7:Eu:779:GLN:CD	2.43	0.43
8:Ew:59:LYS:H	8:Ew:59:LYS:HD2	1.82	0.43
8:Ew:208:ASN:ND2	8:Fa:324:ALA:HB2	2.30	0.43
8:Ew:332:ASN:OD1	8:Ew:332:ASN:C	2.61	0.43
8:Ew:379:ALA:O	8:Fa:424:TYR:CE2	2.70	0.43
8:Ex:194:GLU:HG2	8:Ex:196:LYS:NZ	2.33	0.43
8:Ey:348:TYR:CD1	8:Ey:351:LEU:HD23	2.53	0.43
8:Ez:260:GLN:O	8:Ez:270:LYS:HD3	2.18	0.43
8:Ez:308:LYS:HB2	8:Ez:311:SER:HB2	2.00	0.43
8:Fa:429:ASP:O	8:Fa:432:ILE:HG13	2.19	0.43
9:Fb:434:LEU:HG	9:Fb:438:ARG:NH2	2.33	0.43
9:Fc:57:MET:HE1	9:Fd:824:ALA:CB	2.47	0.43
9:Fe:143:TRP:CZ2	9:Fe:456:ALA:HB1	2.53	0.43
9:Fe:278:ILE:HD12	9:Fe:278:ILE:HA	1.88	0.43
9:Fe:502:THR:HA	9:Fe:505:PHE:HD2	1.83	0.43
9:Fe:675:VAL:HA	9:Fe:678:LEU:HG	2.00	0.43
5:Aq:245:LYS:C	5:Aq:246:LEU:HD23	2.43	0.43
2:Az:5:ILE:HD13	2:Az:5:ILE:N	2.32	0.43
6:Cb:207:ASP:OD2	6:Cb:210:SER:HB3	2.18	0.43
6:Ch:122:LEU:HD23	7:Em:801:MET:HE3	1.99	0.43
3:Cq:2:VAL:HG21	6:Df:129:LYS:HE3	1.99	0.43
6:Cz:233:LEU:HD11	6:Cz:235:THR:HB	1.99	0.43
6:Dl:193:ALA:HB1	7:Et:820:TYR:HE2	1.82	0.43
6:Dl:202:PHE:HB3	6:Dl:215:ILE:CG2	2.48	0.43
6:Dr:173:GLN:NE2	7:Et:815:VAL:HG21	2.22	0.43
6:Dr:181:PHE:CG	6:Dr:254:LEU:HD11	2.53	0.43
6:Dr:200:SER:HB3	7:Eu:816:GLU:OE1	2.17	0.43
7:Ep:795:GLN:O	7:Ep:798:THR:HB	2.17	0.43
8:Ew:298:TYR:CE2	8:Ex:221:ALA:HA	2.54	0.43
8:Ew:384:PHE:HD2	8:Fa:82:TYR:CD1	2.37	0.43
8:Ew:426:MET:HE1	8:Ex:425:GLN:HB2	2.00	0.43
8:Ex:76:LEU:HA	8:Ex:79:ASN:HD22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ex:427:TYR:CD2	8:Ey:379:ALA:HB2	2.53	0.43
8:Ey:40:VAL:HG22	8:Ez:38:ASN:OD1	2.18	0.43
9:Fb:716:LEU:HA	9:Fc:723:PHE:CE2	2.53	0.43
9:Fc:261:LEU:HB3	9:Fc:282:VAL:HG13	1.99	0.43
9:Fd:428:GLY:O	9:Fd:431:MET:HG3	2.19	0.43
9:Fd:641:TYR:CZ	9:Fd:645:LEU:HD21	2.53	0.43
9:Fe:33:LEU:O	9:Fe:37:PHE:HB2	2.17	0.43
9:Ff:57:MET:O	9:Ff:60:MET:HG2	2.17	0.43
9:Ff:274:PHE:HZ	9:Ff:519:TRP:CZ2	2.36	0.43
9:Ff:378:PHE:CE2	9:Ff:565:SER:HA	2.54	0.43
5:Aq:222:LEU:HD23	5:Aq:222:LEU:H	1.83	0.43
5:Aq:261:VAL:HB	5:Aq:263:LYS:HE3	2.00	0.43
3:Au:4:ILE:HG12	6:Bd:146:GLY:N	2.34	0.43
5:Bo:210:TYR:HA	5:Bo:224:GLY:HA2	2.01	0.43
6:Bv:108:ASP:CA	7:Ej:797:ARG:HH22	2.18	0.43
5:Ca:246:LEU:HD11	5:Ca:253:ARG:HH21	1.83	0.43
5:Ca:253:ARG:HE	5:Ca:255:LEU:CD2	2.31	0.43
1:Ci:12:HIS:CD2	3:Ck:9:TYR:HB2	2.54	0.43
5:Dq:241:TYR:HB3	5:Dq:256:THR:HG21	2.00	0.43
7:En:792:GLN:H	7:En:792:GLN:CD	2.27	0.43
7:Ev:792:GLN:HA	7:Ev:795:GLN:CD	2.43	0.43
8:Ew:43:LEU:O	8:Ew:46:LEU:HG	2.18	0.43
8:Ew:198:TRP:CZ3	8:Fa:317:VAL:HA	2.54	0.43
8:Ew:305:ALA:HA	8:Ew:319:GLN:HG2	1.99	0.43
8:Ew:399:TRP:O	8:Ew:403:ILE:HG12	2.18	0.43
8:Ex:43:LEU:O	8:Ex:46:LEU:HG	2.19	0.43
8:Ey:69:PHE:CZ	8:Ey:402:GLN:HB3	2.53	0.43
8:Ey:245:SER:HA	8:Ey:279:PHE:CZ	2.53	0.43
8:Ey:424:TYR:O	8:Ey:428:LEU:HD22	2.18	0.43
8:Ez:80:TYR:C	8:Ez:374:ASN:HD21	2.26	0.43
8:Fa:134:GLY:N	8:Fa:258:ALA:HB2	2.34	0.43
9:Fb:194:LEU:O	9:Fb:198:LEU:HD22	2.18	0.43
9:Fb:367:LYS:HD2	9:Fb:367:LYS:C	2.43	0.43
9:Fb:378:PHE:HB2	9:Fb:570:PHE:CE2	2.53	0.43
9:Fc:429:ILE:HB	9:Fc:430:MET:HE2	2.01	0.43
9:Fd:617:ILE:O	9:Fd:618:LEU:C	2.60	0.43
9:Fd:762:THR:HG23	9:Fd:766:PHE:HE2	1.83	0.43
9:Fd:781:ILE:H	9:Fd:781:ILE:HG13	1.45	0.43
9:Fe:555:GLN:CD	9:Fe:588:LEU:HD12	2.42	0.43
9:Ff:197:GLN:OE1	9:Ff:520:PHE:HZ	2.02	0.43
9:Ff:348:GLN:HA	9:Ff:351:VAL:HG12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ff:470:ASP:O	9:Ff:473:LYS:HG2	2.17	0.43
9:Ff:486:ASP:OD1	9:Ff:486:ASP:C	2.62	0.43
6:Bd:129:LYS:O	6:Bd:132:GLN:HG3	2.19	0.43
1:Bk:3:ASP:O	1:Bk:6:LEU:HD12	2.18	0.43
6:Bv:171:LEU:HD12	6:Bv:172:SER:H	1.83	0.43
2:Cd:1:CYS:HA	3:Ce:4:ILE:HD13	2.01	0.43
6:Ch:115:MET:HG2	7:El:802:LEU:HD22	2.01	0.43
5:Cm:210:TYR:CD2	5:Cm:224:GLY:HA3	2.54	0.43
6:Ct:169:ILE:HB	6:Ct:241:LEU:HD12	2.01	0.43
5:Ec:256:THR:HG22	5:Ec:260:GLN:O	2.19	0.43
7:Es:793:GLU:HA	7:Es:796:GLN:HE21	1.83	0.43
8:Ew:436:ILE:CD1	8:Fa:437:LEU:HD23	2.47	0.43
8:Ex:142:ILE:HG23	8:Ex:267:LEU:HD21	2.00	0.43
8:Ex:337:ALA:HB3	8:Ey:243:LEU:HD11	2.00	0.43
8:Ey:142:ILE:HA	8:Ey:210:VAL:CG2	2.48	0.43
8:Ey:245:SER:HA	8:Ey:279:PHE:CE2	2.53	0.43
8:Ey:419:LEU:HA	8:Ey:422:ILE:CG1	2.49	0.43
8:Fa:449:LYS:HD2	8:Fa:449:LYS:O	2.17	0.43
9:Fb:110:GLY:O	9:Fb:114:LEU:HD23	2.18	0.43
9:Fb:335:ALA:O	9:Fb:338:GLN:HG3	2.18	0.43
9:Fb:729:MET:HE2	9:Fb:729:MET:C	2.43	0.43
9:Fb:807:ASN:ND2	9:Fb:941:LEU:HD13	2.34	0.43
9:Fc:375:LYS:HB2	9:Fc:376:GLN:NE2	2.34	0.43
9:Fc:525:ASP:HA	9:Fc:528:ILE:HG22	2.00	0.43
9:Fc:665:GLN:HE21	9:Fc:665:GLN:HB3	1.66	0.43
9:Fc:755:VAL:HG12	9:Fc:759:MET:SD	2.59	0.43
9:Fd:75:ILE:HD13	9:Fd:75:ILE:HA	1.84	0.43
9:Fd:655:ILE:CG1	9:Fd:710:MET:HE3	2.49	0.43
9:Fe:136:VAL:HG22	9:Fe:461:TRP:HZ2	1.83	0.43
9:Ff:59:ASN:OD1	9:Ff:59:ASN:C	2.61	0.43
9:Ff:452:PHE:HD1	9:Ff:452:PHE:H	1.67	0.43
9:Ff:677:THR:HA	9:Ff:680:GLN:OE1	2.18	0.43
9:Ff:804:ILE:O	9:Ff:808:VAL:HG22	2.19	0.43
7:Fi:36:PHE:O	7:Fi:40:ARG:HG2	2.18	0.43
1:Aa:11:TYR:CE2	3:Ac:9:TYR:HB3	2.53	0.43
6:Bd:169:ILE:HD13	6:Bd:179:LEU:HD21	2.01	0.43
6:Bj:115:MET:HE2	7:Eh:801:MET:HB3	2.00	0.43
6:Cb:221:TYR:HD2	6:Cb:244:GLY:HA3	1.84	0.43
6:Cb:237:VAL:C	6:Cb:238:MET:HE2	2.44	0.43
6:Cn:107:ILE:CD1	7:Em:794:ILE:HA	2.48	0.43
6:Cn:121:PRO:HB2	7:En:801:MET:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ct:129:LYS:HE3	6:Cz:112:PHE:CE2	2.54	0.43
5:Cy:218:GLY:HA3	6:Df:148:PRO:HD3	2.01	0.43
6:Dl:126:GLN:NE2	6:Dr:112:PHE:CE1	2.87	0.43
6:Dl:225:ASN:ND2	6:Dr:176:VAL:HG22	2.34	0.43
5:Dq:236:SER:N	5:Dq:243:MET:HE1	2.34	0.43
6:Dr:208:LYS:HD3	6:Dr:208:LYS:HA	1.83	0.43
5:Dw:233:ARG:HH12	6:Ed:246:LYS:HD3	1.83	0.43
6:Dx:191:ILE:HB	6:Dx:206:TRP:CZ2	2.54	0.43
7:En:805:ALA:O	7:En:809:VAL:HG23	2.19	0.43
7:Ep:795:GLN:HA	7:Ep:798:THR:HB	2.00	0.43
7:Et:779:GLN:HG2	7:Et:780:LYS:H	1.84	0.43
8:Ey:103:THR:HG22	8:Ez:255:ASP:HB2	1.99	0.43
8:Ey:381:ARG:HH12	8:Ey:382:ARG:CG	2.32	0.43
9:Fb:530:ILE:H	9:Fb:530:ILE:HD12	1.83	0.43
9:Fb:675:VAL:HG23	9:Fb:678:LEU:HD11	2.00	0.43
9:Fc:147:LEU:HD21	9:Fc:457:ASN:HB3	2.00	0.43
9:Fc:770:ILE:HD11	9:Fd:928:LYS:HZ2	1.84	0.43
9:Fd:34:SER:HA	9:Fd:462:ILE:HD13	2.01	0.43
9:Fd:41:LEU:HD12	9:Fe:828:VAL:HG21	2.00	0.43
9:Fd:222:MET:O	9:Fd:222:MET:SD	2.76	0.43
9:Fd:278:ILE:HD11	9:Fd:516:LEU:HD11	1.99	0.43
9:Fd:739:ILE:HA	9:Fd:742:MET:CE	2.49	0.43
9:Fd:936:LEU:N	9:Fd:937:PRO:HD2	2.33	0.43
9:Fe:113:LEU:HD12	9:Fe:113:LEU:O	2.19	0.43
9:Fe:502:THR:HG23	9:Fe:531:GLN:NE2	2.30	0.43
9:Fe:665:GLN:HA	9:Fe:668:LYS:HE3	2.01	0.43
9:Fe:685:PRO:HB2	9:Fe:830:VAL:HG11	2.00	0.43
9:Ff:239:PHE:HE1	9:Ff:340:TYR:HB3	1.84	0.43
9:Ff:532:SER:HA	9:Ff:537:VAL:H	1.82	0.43
6:Af:144:THR:CG2	6:Af:148:PRO:HG3	2.49	0.43
5:Aw:255:LEU:HD13	5:Aw:261:VAL:HG13	2.01	0.43
6:Ax:113:LYS:HA	6:Ax:113:LYS:HD3	1.81	0.43
1:Ay:6:LEU:HA	1:Ay:9:LEU:HG	2.00	0.43
6:Bd:105:GLU:OE2	6:Bd:109:LYS:HD3	2.18	0.43
6:Bj:107:ILE:HB	7:Eh:797:ARG:NH2	2.34	0.43
6:Bj:245:GLN:HG3	6:Bj:246:LYS:H	1.84	0.43
5:Cg:253:ARG:HB2	5:Cg:263:LYS:HE3	2.01	0.43
6:Ct:112:PHE:HD1	6:Ct:115:MET:HB2	1.83	0.43
5:Cy:251:GLN:HB3	5:Cy:253:ARG:CZ	2.48	0.43
6:Cz:149:PRO:O	6:Cz:151:PRO:HD3	2.19	0.43
6:Cz:189:TRP:O	6:Cz:211:ASN:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dq:213:GLN:HE22	5:Dq:223:ILE:HB	1.81	0.43
6:Dr:157:PHE:HD1	6:Dr:255:ARG:HB2	1.84	0.43
6:Dr:190:PRO:HA	6:Dr:211:ASN:HB3	2.00	0.43
6:Dr:238:MET:HE1	6:Dx:178:SER:HB3	2.00	0.43
8:Ew:78:GLN:C	8:Ew:78:GLN:CD	2.87	0.43
8:Ew:198:TRP:HH2	8:Fa:317:VAL:HA	1.83	0.43
8:Ex:211:MET:O	8:Ex:214:VAL:HB	2.18	0.43
8:Ey:40:VAL:O	8:Ey:43:LEU:HD12	2.18	0.43
8:Ey:75:GLN:HB2	8:Ez:400:ILE:HD11	2.00	0.43
8:Ey:382:ARG:O	8:Ey:399:TRP:HB3	2.19	0.43
8:Ez:170:LEU:HD23	8:Ez:171:ASN:H	1.83	0.43
8:Ez:294:LYS:O	8:Ez:298:TYR:HB3	2.18	0.43
8:Ez:445:LEU:HA	8:Ez:448:LEU:HG	2.01	0.43
8:Fa:416:ALA:O	8:Fa:419:LEU:HD12	2.18	0.43
9:Fb:132:ILE:HD12	9:Fb:132:ILE:H	1.83	0.43
9:Fb:266:PHE:CE2	9:Fb:275:LEU:HB2	2.47	0.43
9:Fb:826:SER:O	9:Fb:830:VAL:HG23	2.18	0.43
9:Fc:378:PHE:HB3	9:Fc:414:PHE:HD2	1.82	0.43
9:Fd:302:VAL:HG21	9:Fd:325:LEU:HD22	2.01	0.43
9:Fd:323:SER:HA	9:Fd:326:GLN:HG3	2.01	0.43
9:Fd:810:LEU:O	9:Fd:814:LEU:HG	2.19	0.43
9:Ff:183:THR:HG23	9:Ff:496:PHE:HB2	2.01	0.43
7:Fi:25:ALA:O	7:Fi:29:ILE:HG12	2.18	0.43
6:Af:208:LYS:HE2	7:Ef:823:GLY:HA2	2.00	0.43
6:Al:123:ASN:CG	6:Al:124:PRO:HD2	2.43	0.43
6:Al:168:VAL:C	6:Al:169:ILE:HD13	2.43	0.43
6:Al:208:LYS:HD3	6:Al:208:LYS:HA	1.74	0.43
6:Ar:173:GLN:HE21	6:Ar:220:LEU:HD23	1.84	0.43
3:Au:1:ARG:HG2	3:Au:2:VAL:N	2.34	0.43
6:Ax:220:LEU:HD12	6:Bd:138:GLU:OE2	2.18	0.43
5:Bc:247:ILE:HG12	5:Bc:254:ILE:CD1	2.49	0.43
5:Bc:248:ASP:CB	5:Bc:253:ARG:HH21	2.31	0.43
6:Bv:191:ILE:HG12	6:Bv:211:ASN:HA	2.00	0.43
1:Bw:6:LEU:CD1	5:Ca:246:LEU:HD23	2.49	0.43
6:Cb:149:PRO:HB2	6:Cb:248:VAL:HG12	2.01	0.43
6:Cb:190:PRO:O	6:Cb:231:ARG:HG2	2.19	0.43
5:Cs:218:GLY:HA3	6:Cz:148:PRO:HD3	2.00	0.43
6:Ct:200:SER:HB3	7:Eq:816:GLU:OE2	2.19	0.43
6:Cz:106:VAL:HG23	6:Cz:110:LYS:HZ1	1.80	0.43
6:Dx:122:LEU:HB3	6:Dx:127:VAL:HG22	2.01	0.43
6:Ed:114:ASP:O	6:Ed:117:ARG:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7: Ei:809: VAL: HA	7: Ei:812: TRP: CZ3	2.53	0.43
7: Em:808: LEU: C	7: Em:812: TRP: CD1	2.96	0.43
8: Ex:80: TYR: CD2	8: Ex:359: MET: HG3	2.53	0.43
8: Ex:84: THR: HG23	8: Ex:359: MET: HE1	2.01	0.43
8: Ex:139: ASN: HD21	8: Ex:141: LEU: HD13	1.83	0.43
8: Ex:440: ASN: HA	8: Ex:443: MET: HG3	2.00	0.43
8: Ey:191: MET: HE3	8: Ey:197: ASN: O	2.18	0.43
8: Ey:211: MET: HA	8: Ey:214: VAL: CG2	2.48	0.43
8: Fa:128: PRO: HB3	8: Fa:168: THR: HA	2.01	0.43
8: Fa:211: MET: O	8: Fa:215: ILE: HG22	2.18	0.43
9: Fb:908: VAL: HG23	9: Fb:912: PHE: CE2	2.53	0.43
9: Fc:226: CYS: HB3	9: Fc:227: ARG: HH21	1.84	0.43
9: Fc:278: ILE: HD12	9: Fc:278: ILE: HA	1.88	0.43
9: Fc:675: VAL: O	9: Fc:679: THR: HG23	2.19	0.43
9: Fc:940: VAL: O	9: Fc:944: ILE: HD12	2.19	0.43
9: Fd:320: ILE: HD11	9: Fd:325: LEU: HB2	2.01	0.43
9: Fd:391: GLU: HG3	9: Fd:393: GLN: H	1.84	0.43
9: Fd:650: GLU: HG2	9: Fd:651: MET: HE2	2.01	0.43
9: Fd:826: SER: O	9: Fd:830: VAL: HG12	2.18	0.43
9: Fd:912: PHE: O	9: Fd:913: PHE: C	2.62	0.43
9: Fe:738: TRP: O	9: Fe:741: THR: HB	2.19	0.43
9: Ff:924: ILE: O	9: Ff:928: LYS: HG2	2.18	0.43
9: Ff:928: LYS: HD2	9: Ff:928: LYS: N	2.34	0.43
6: Af:106: VAL: HG23	6: Af:110: LYS: HZ2	1.82	0.43
6: Af:221: TYR: CD1	6: Al:139: TYR: HD1	2.37	0.43
5: Aq:220: ALA: HB2	5: Aq:247: ILE: HG21	2.00	0.43
6: Ax:168: VAL: HG13	6: Ax:242: ILE: HD13	2.01	0.43
6: Bd:181: PHE: CZ	6: Bd:213: LEU: HB2	2.47	0.43
4: Bh:2: PHE: HB2	5: Bi:251: GLN: HE22	1.84	0.43
1: Bk:1: CYS: HA	4: Bn:2: PHE: CG	2.54	0.43
1: Bw:11: TYR: HD2	3: By:9: TYR: HB3	1.84	0.43
2: Bx:5: ILE: HG21	6: Ch:140: ALA: HB2	2.00	0.43
5: Ca:217: PRO: HD3	6: Ch:139: TYR: OH	2.18	0.43
6: Cb:181: PHE: CD2	6: Cb:181: PHE: N	2.86	0.43
6: Ct:225: ASN: ND2	6: Cz:175: PHE: HB3	2.34	0.43
6: Cz:238: MET: HG3	6: Df:250: TYR: CD2	2.54	0.43
1: Dg:16: ALA: HB3	2: Dn:9: ARG: HG3	2.01	0.43
6: Dl:141: LYS: HE3	7: Es:812: TRP: CH2	2.53	0.43
6: Dl:221: TYR: HE2	6: Dr:138: GLU: HB2	1.83	0.43
6: Dr:169: ILE: HG13	6: Dr:171: LEU: HD22	1.99	0.43
6: Dr:169: ILE: HG23	6: Dr:241: LEU: HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dw:218:GLY:HA3	6:Ed:148:PRO:HD3	1.99	0.43
6:Dx:182:LEU:HD11	6:Dx:186:GLY:CA	2.49	0.43
7:Ee:802:LEU:HD12	7:Ee:803:THR:N	2.34	0.43
7:Eu:806:THR:HA	7:Eu:809:VAL:HG12	2.01	0.43
8:Ew:125:PHE:HA	8:Ew:137:THR:HA	2.00	0.43
9:Fb:124:MET:HE1	9:Fb:780:PRO:HA	2.01	0.43
9:Fb:283:LYS:HD2	9:Fb:493:LYS:HG3	2.01	0.43
9:Fb:648:PHE:CE2	9:Fb:652:ILE:HD11	2.54	0.43
9:Fb:710:MET:HA	9:Fb:714:SER:HB3	2.01	0.43
9:Fb:799:GLU:O	9:Fb:803:MET:HG3	2.18	0.43
9:Fc:278:ILE:HD13	9:Fc:513:TYR:CZ	2.54	0.43
9:Fc:532:SER:HA	9:Fc:537:VAL:N	2.33	0.43
9:Fc:663:PRO:HA	9:Fc:699:PHE:HZ	1.83	0.43
9:Fc:921:MET:HA	9:Fc:921:MET:HE3	1.99	0.43
9:Fc:940:VAL:HG22	9:Fc:943:TRP:CH2	2.54	0.43
9:Fd:785:GLY:HA2	9:Fd:788:HIS:CD2	2.54	0.43
9:Fd:843:TYR:HD2	9:Fd:843:TYR:H	1.66	0.43
9:Fe:274:PHE:CZ	9:Fe:515:LEU:HG	2.53	0.43
9:Fe:726:ALA:O	9:Fe:727:LEU:C	2.62	0.43
9:Ff:459:LYS:HA	9:Ff:459:LYS:HD3	1.80	0.43
9:Ff:704:TRP:CE3	9:Ff:707:LEU:HD23	2.54	0.43
7:Fg:37:PHE:HB2	7:Fg:38:LYS:HZ2	1.84	0.43
3:Ac:3:SER:O	6:Ar:132:GLN:HG3	2.19	0.42
6:Af:117:ARG:HE	7:Ev:797:ARG:NE	2.17	0.42
6:Al:141:LYS:HD2	7:Ef:812:TRP:CZ2	2.53	0.42
3:Ba:2:VAL:HG21	6:Bp:129:LYS:CG	2.45	0.42
3:Bg:3:SER:O	6:Bv:132:GLN:HG3	2.19	0.42
6:Bj:204:ILE:HD11	6:Bj:213:LEU:HD22	2.01	0.42
3:Bm:2:VAL:HG21	6:Cb:129:LYS:CG	2.49	0.42
6:Cb:213:LEU:HD23	6:Cb:213:LEU:HA	1.79	0.42
6:Ch:181:PHE:CE2	6:Ch:237:VAL:HG11	2.54	0.42
6:Ch:191:ILE:HD12	6:Ch:206:TRP:NE1	2.34	0.42
3:Ck:13:LYS:HD3	3:Ck:13:LYS:HA	1.66	0.42
6:Cn:117:ARG:O	6:Cn:121:PRO:HA	2.19	0.42
2:Cv:6:GLY:HA2	6:Dl:125:GLU:HB3	2.00	0.42
6:Cz:219:LYS:NZ	6:Df:142:ALA:HB2	2.34	0.42
6:Df:221:TYR:HB2	6:Dl:142:ALA:HB1	2.01	0.42
6:Df:242:ILE:HD12	6:Df:243:PRO:HD2	2.00	0.42
6:Dl:176:VAL:HG13	6:Dl:214:MET:CG	2.49	0.42
3:Do:2:VAL:HG21	6:Ed:129:LYS:HD3	2.01	0.42
5:Dw:219:ARG:NH2	5:Dw:231:THR:HG23	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dy:3:ASP:O	1:Dy:6:LEU:HD12	2.18	0.42
6:Ed:117:ARG:HH21	7:Eu:797:ARG:CG	2.24	0.42
6:Ed:207:ASP:OD2	6:Ed:210:SER:HB3	2.19	0.42
6:Ed:218:THR:HA	7:Ev:815:VAL:HG11	2.01	0.42
7:El:793:GLU:HA	7:El:796:GLN:HE21	1.84	0.42
7:Er:797:ARG:NH1	7:Er:798:THR:HG23	2.34	0.42
8:Ew:278:ASN:HA	8:Ew:281:ARG:CD	2.49	0.42
8:Ey:186:ASP:N	8:Ey:189:PHE:HE2	2.10	0.42
8:Fa:74:VAL:HA	8:Fa:381:ARG:HH22	1.84	0.42
8:Fa:235:TYR:O	8:Fa:238:PRO:HD2	2.19	0.42
9:Fc:125:GLN:NE2	9:Fc:126:VAL:HG23	2.34	0.42
9:Fc:666:GLY:HA2	9:Fc:669:ASP:OD2	2.19	0.42
9:Fc:697:ILE:HD13	9:Fc:751:TYR:OH	2.19	0.42
9:Fd:33:LEU:HG	9:Fd:459:LYS:O	2.18	0.42
9:Fd:427:ASN:HD21	9:Fd:485:PHE:HB3	1.83	0.42
9:Fd:671:PHE:O	9:Fd:675:VAL:HG23	2.19	0.42
9:Fd:725:PHE:HA	9:Fd:728:ILE:CG1	2.49	0.42
9:Fd:908:VAL:O	9:Fd:911:PHE:HB3	2.18	0.42
9:Fd:911:PHE:O	9:Fd:915:ILE:HG12	2.18	0.42
9:Fe:373:ILE:HG22	9:Fe:533:LEU:HD13	2.01	0.42
9:Fe:627:MET:HA	9:Fe:630:ASP:HB2	2.01	0.42
9:Fe:731:ALA:O	9:Fe:735:LEU:HB2	2.19	0.42
9:Ff:768:TRP:CD1	9:Ff:811:ARG:HB2	2.54	0.42
6:Af:107:ILE:H	6:Af:107:ILE:HD12	1.84	0.42
6:Af:129:LYS:HD3	3:Du:2:VAL:HG21	2.01	0.42
6:Af:145:PRO:HG3	6:Al:131:LYS:HG2	2.00	0.42
1:Am:2:THR:O	1:Am:6:LEU:HG	2.19	0.42
1:Am:9:LEU:O	1:Am:13:LYS:HG2	2.19	0.42
6:Bd:157:PHE:CD1	6:Bd:255:ARG:HG3	2.35	0.42
6:Bd:208:LYS:HZ2	7:Ej:822:GLU:C	2.27	0.42
2:Bl:5:ILE:HD13	6:Bv:140:ALA:HB2	2.00	0.42
6:Bp:220:LEU:HD12	6:Bv:138:GLU:OE1	2.19	0.42
5:Ca:237:LYS:HD3	5:Ca:243:MET:HB3	2.00	0.42
6:Cb:200:SER:HB3	7:En:816:GLU:HG3	2.01	0.42
6:Cb:214:MET:HE1	7:Em:818:GLN:HE21	1.84	0.42
6:Ch:122:LEU:HD12	7:Em:808:LEU:HD11	2.00	0.42
6:Ct:207:ASP:OD2	6:Ct:210:SER:HB3	2.20	0.42
5:Cy:212:ILE:HG23	5:Cy:222:LEU:HD22	2.00	0.42
6:Cz:169:ILE:HD12	6:Cz:240:THR:O	2.19	0.42
1:Dm:7:ALA:HA	1:Dm:10:GLU:OE1	2.19	0.42
5:Dq:265:SER:HB3	5:Dq:268:ASP:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Dr:229:ARG:HD3	6:Dr:229:ARG:C	2.45	0.42
6:Dx:107:ILE:H	6:Dx:107:ILE:HD12	1.84	0.42
7:Eh:799:SER:HA	7:Eh:802:LEU:CD2	2.47	0.42
7:Ek:795:GLN:H	7:Ek:795:GLN:CD	2.28	0.42
7:En:795:GLN:HA	7:En:798:THR:OG1	2.19	0.42
7:Et:807:GLN:OE1	7:Et:808:LEU:HD23	2.19	0.42
8:Ew:49:TYR:HB3	8:Fa:52:TYR:CD1	2.54	0.42
8:Ey:219:PRO:HA	8:Ey:220:PRO:HD3	1.81	0.42
8:Ey:383:LEU:HD23	8:Ey:384:PHE:N	2.34	0.42
8:Ez:448:LEU:HD12	8:Ez:449:LYS:N	2.34	0.42
8:Fa:280:ILE:CD1	8:Fa:351:LEU:HD22	2.49	0.42
8:Fa:300:GLU:HA	8:Fa:303:ASN:ND2	2.33	0.42
9:Fc:651:MET:O	9:Fc:655:ILE:HG12	2.19	0.42
9:Fe:78:TYR:HA	9:Fe:81:MET:CE	2.49	0.42
9:Fe:606:LYS:HB2	9:Fe:608:GLN:HE22	1.83	0.42
9:Ff:165:LYS:HD2	9:Ff:485:PHE:HB2	2.01	0.42
9:Ff:323:SER:O	9:Ff:327:THR:HG23	2.19	0.42
9:Ff:807:ASN:OD1	9:Ff:807:ASN:C	2.62	0.42
3:Ba:11:ALA:HB1	3:Ba:14:TYR:CE2	2.54	0.42
6:Bd:138:GLU:HA	6:Bd:141:LYS:HB3	2.00	0.42
6:Bd:195:ASP:O	6:Bd:226:LEU:HD12	2.19	0.42
6:Bd:196:LEU:HD21	6:Bd:202:PHE:CD2	2.54	0.42
6:Bj:182:LEU:HD11	6:Bj:186:GLY:HA2	2.02	0.42
5:Bo:218:GLY:HA3	6:Bv:148:PRO:HD3	2.02	0.42
6:Bv:108:ASP:OD1	6:Bv:108:ASP:C	2.61	0.42
6:Cb:184:SER:HA	6:Cb:255:ARG:HH21	1.84	0.42
5:Cm:207:ARG:CZ	5:Cm:240:GLY:HA3	2.50	0.42
6:Cn:157:PHE:CD1	6:Cn:157:PHE:C	2.96	0.42
6:Cz:187:ALA:HB1	6:Cz:262:ASN:HB2	2.01	0.42
1:Dg:8:ALA:HB1	3:Di:1:ARG:HD3	2.01	0.42
6:Dr:144:THR:HG23	6:Dr:148:PRO:HG3	2.01	0.42
6:Dx:122:LEU:HD11	6:Dx:130:LEU:CD1	2.49	0.42
6:Dx:122:LEU:HD22	7:Et:801:MET:HG2	2.02	0.42
2:Dz:2:VAL:HG22	3:Ea:1:ARG:HE	1.84	0.42
7:Ep:805:ALA:O	7:Ep:809:VAL:HG12	2.19	0.42
8:Ew:78:GLN:NE2	8:Ex:384:PHE:HB2	2.31	0.42
8:Ew:179:PHE:HB2	8:Ex:240:ILE:HD13	2.02	0.42
8:Ew:211:MET:HA	8:Ew:214:VAL:CG2	2.46	0.42
8:Ew:218:LEU:HD21	8:Fa:326:LEU:HD12	2.00	0.42
8:Ew:292:LEU:HA	8:Ew:329:TYR:OH	2.19	0.42
8:Ew:293:PRO:HB3	8:Fa:457:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ew:385:ASP:H	8:Ew:398:GLN:NE2	2.14	0.42
8:Ex:302:TRP:HZ3	8:Ey:218:LEU:HG	1.78	0.42
8:Ey:82:TYR:CE2	8:Ez:384:PHE:HB3	2.55	0.42
8:Ey:382:ARG:HG2	8:Ey:399:TRP:CE2	2.55	0.42
8:Ey:415:ILE:O	8:Ey:418:LEU:HD12	2.19	0.42
9:Fb:693:GLY:HA3	9:Fb:749:THR:HG23	2.01	0.42
9:Fc:136:VAL:HG13	9:Fc:461:TRP:NE1	2.32	0.42
9:Fc:258:SER:HA	9:Fc:285:ASN:HA	2.00	0.42
9:Fc:705:LEU:HA	9:Fc:708:LEU:CD1	2.50	0.42
9:Fc:739:ILE:O	9:Fc:743:VAL:HG13	2.19	0.42
9:Fc:912:PHE:O	9:Fc:916:LEU:HD22	2.20	0.42
9:Fd:242:LYS:HZ1	9:Fd:259:PHE:C	2.27	0.42
9:Fd:452:PHE:CZ	9:Fd:470:ASP:HB3	2.53	0.42
9:Fd:461:TRP:CZ2	9:Fd:812:PRO:HB3	2.55	0.42
9:Fd:639:TYR:OH	9:Fe:605:MET:HB2	2.19	0.42
9:Fd:648:PHE:HB2	9:Fd:717:ILE:HD13	2.00	0.42
9:Fd:776:MET:SD	9:Fd:777:VAL:HG23	2.59	0.42
9:Ff:202:ARG:HA	9:Ff:202:ARG:HD2	1.85	0.42
9:Ff:378:PHE:HB3	9:Ff:414:PHE:HD2	1.84	0.42
9:Ff:434:LEU:HA	9:Ff:437:ILE:HG22	2.00	0.42
9:Ff:652:ILE:O	9:Ff:656:VAL:HG23	2.19	0.42
9:Ff:734:LEU:O	9:Ff:734:LEU:HD12	2.19	0.42
9:Ff:750:ALA:C	9:Ff:751:TYR:HD1	2.28	0.42
9:Ff:914:SER:HA	9:Ff:917:ILE:HG22	2.01	0.42
7:Fj:34:ILE:HD13	7:Fj:37:PHE:HE1	1.83	0.42
7:Fk:30:ILE:HD13	7:Fk:30:ILE:HA	1.88	0.42
6:Af:220:LEU:HG	6:Al:138:GLU:OE1	2.20	0.42
1:Ag:3:ASP:HA	1:Ag:6:LEU:HG	2.01	0.42
6:Ar:158:VAL:HG23	6:Ar:254:LEU:HB2	2.02	0.42
6:Ar:194:TYR:HE2	6:Ar:196:LEU:HB2	1.84	0.42
5:Bc:237:LYS:NZ	5:Bc:243:MET:HB2	2.34	0.42
6:Bd:119:LEU:HD12	6:Bd:120:TYR:CG	2.54	0.42
5:Bi:260:GLN:H	5:Bi:260:GLN:CD	2.27	0.42
6:Bp:251:ARG:HG2	6:Bp:251:ARG:HH11	1.85	0.42
5:Bu:210:TYR:HA	5:Bu:224:GLY:HA2	2.01	0.42
6:Bv:189:TRP:CG	6:Bv:230:LEU:HD12	2.54	0.42
5:Cm:219:ARG:HH22	6:Ct:150:LYS:HD2	1.84	0.42
6:Ct:179:LEU:HB3	6:Ct:254:LEU:HD11	2.01	0.42
6:Cz:219:LYS:HD3	6:Cz:219:LYS:C	2.44	0.42
6:Df:191:ILE:HD11	6:Df:211:ASN:C	2.44	0.42
1:Dy:1:CYS:HB2	3:Ea:16:ASP:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ed:106:VAL:HA	6:Ed:109:LYS:HG2	2.00	0.42
6:Ed:206:TRP:HB2	6:Ed:213:LEU:HD23	2.01	0.42
7:Ee:799:SER:HA	7:Ee:802:LEU:HG	2.01	0.42
7:Ef:809:VAL:HA	7:Ef:812:TRP:HD1	1.83	0.42
7:Eh:793:GLU:O	7:Eh:796:GLN:HG3	2.19	0.42
7: Ei:800:ASP:OD1	7: Ei:800:ASP:C	2.62	0.42
8:Ew:302:TRP:CE2	8:Ex:220:PRO:HA	2.55	0.42
8:Ew:346:ASN:HA	8:Ew:435:ARG:NH2	2.34	0.42
8:Ey:428:LEU:O	8:Ey:432:ILE:HG12	2.20	0.42
8:Ey:452:GLN:HA	8:Ey:453:PRO:HD3	1.94	0.42
8:Fa:254:MET:HE3	8:Fa:354:ARG:CB	2.45	0.42
8:Fa:399:TRP:CD1	8:Fa:399:TRP:C	2.96	0.42
9:Fb:103:ILE:N	9:Fb:104:PRO:HD2	2.34	0.42
9:Fb:185:LEU:HD12	9:Fb:189:ILE:HD11	2.00	0.42
9:Fb:193:GLY:O	9:Fb:197:GLN:HG2	2.19	0.42
9:Fb:240:VAL:HG13	9:Fb:337:GLN:HG3	2.01	0.42
9:Fc:77:MET:O	9:Fc:81:MET:HE3	2.20	0.42
9:Fc:705:LEU:HA	9:Fc:708:LEU:HD12	2.01	0.42
9:Fc:716:LEU:HG	9:Fd:603:TYR:CZ	2.54	0.42
9:Fd:301:LEU:HD21	9:Fd:319:ASN:HD21	1.84	0.42
9:Fd:513:TYR:HB3	9:Fd:516:LEU:HG	2.02	0.42
9:Fe:169:ALA:HB1	9:Fe:485:PHE:CD1	2.54	0.42
9:Fe:429:ILE:C	9:Fe:430:MET:HE2	2.44	0.42
9:Fe:452:PHE:O	9:Fe:455:GLU:HG2	2.19	0.42
9:Ff:320:ILE:HD12	9:Ff:325:LEU:HB2	2.01	0.42
9:Ff:768:TRP:HD1	9:Ff:811:ARG:HB2	1.84	0.42
5:Ae:212:ILE:HB	5:Ae:264:PHE:CD1	2.55	0.42
6:Al:252:VAL:HG12	6:Al:254:LEU:HG	2.01	0.42
6:Ar:131:LYS:HD2	7:Ef:812:TRP:CH2	2.55	0.42
6:Bd:123:ASN:HB3	6:Bd:126:GLN:HG3	2.01	0.42
6:Bj:141:LYS:NZ	7:Ej:812:TRP:HD1	2.18	0.42
6:Bp:182:LEU:HD12	6:Bp:186:GLY:C	2.44	0.42
6:Bv:115:MET:HA	6:Bv:118:ASN:HD21	1.85	0.42
5:Ca:212:ILE:HD13	5:Ca:220:ALA:HB1	2.02	0.42
6:Cb:191:ILE:HA	6:Cb:230:LEU:HD13	2.01	0.42
6:Cn:133:ILE:CD1	6:Ct:116:THR:HG22	2.50	0.42
6:Ct:194:TYR:HE2	6:Ct:196:LEU:HB2	1.84	0.42
5:Ec:262:ILE:HD13	5:Ec:262:ILE:HA	1.90	0.42
7:Ef:771:ALA:HA	7:Ef:774:LEU:HG	2.01	0.42
7:Es:774:LEU:HD11	9:Fb:579:LEU:CD1	2.50	0.42
8:Ew:233:TYR:HB3	8:Ew:234:LYS:NZ	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ew:317:VAL:CA	8:Ex:198:TRP:HE1	2.20	0.42
8:Ew:408:PRO:HA	8:Ew:411:VAL:HG22	2.01	0.42
8:Ew:413:LYS:HE3	8:Ex:403:ILE:O	2.20	0.42
8:Ew:444:LEU:CD2	8:Ex:443:MET:HB3	2.46	0.42
8:Ex:69:PHE:HE2	8:Ex:403:ILE:HD13	1.85	0.42
8:Ey:62:ASN:HA	8:Ez:48:LYS:HZ1	1.84	0.42
8:Ey:398:GLN:HB2	8:Ey:401:LYS:HG3	2.01	0.42
8:Ez:187:TYR:HB3	8:Ez:206:TYR:CE1	2.55	0.42
8:Fa:350:ILE:HG13	8:Fa:350:ILE:H	1.64	0.42
9:Fb:77:MET:O	9:Fb:81:MET:HE2	2.18	0.42
9:Fb:318:LEU:HD21	9:Fb:439:GLN:C	2.44	0.42
9:Fb:450:ARG:HD2	9:Fb:450:ARG:HA	1.81	0.42
9:Fb:542:GLN:N	9:Fb:542:GLN:CD	2.78	0.42
9:Fb:672:ILE:O	9:Fb:676:GLN:HG2	2.19	0.42
9:Fc:61:PHE:HA	9:Fc:64:PHE:HB3	2.02	0.42
9:Fc:243:GLN:NE2	9:Fc:330:LEU:HD22	2.30	0.42
9:Fc:357:PHE:HZ	9:Fc:530:ILE:HD13	1.85	0.42
9:Fd:71:LEU:O	9:Fd:74:ILE:HG23	2.19	0.42
9:Fd:671:PHE:CD2	9:Fd:672:ILE:HD13	2.55	0.42
9:Fe:130:TRP:O	9:Fe:134:GLN:HG2	2.19	0.42
9:Fe:693:GLY:O	9:Fe:697:ILE:HG12	2.20	0.42
9:Ff:301:LEU:HG	9:Ff:319:ASN:OD1	2.19	0.42
9:Ff:579:LEU:HD23	9:Ff:579:LEU:HA	1.90	0.42
9:Ff:753:ILE:H	9:Ff:753:ILE:HG13	1.62	0.42
9:Ff:753:ILE:CG2	9:Ff:926:VAL:HG11	2.50	0.42
7:Fg:9:LYS:HA	7:Fg:12:PHE:CD2	2.54	0.42
7:Fh:19:VAL:HA	7:Fh:22:ILE:CG1	2.49	0.42
5:Ae:212:ILE:HA	5:Ae:222:LEU:HD22	2.02	0.42
5:Aq:237:LYS:HD3	5:Aq:243:MET:HB3	2.02	0.42
6:Ar:221:TYR:CA	6:Ar:243:PRO:HG2	2.50	0.42
6:Bj:106:VAL:HA	6:Bj:109:LYS:HD3	2.02	0.42
6:Bp:207:ASP:OD2	6:Bp:210:SER:HB3	2.20	0.42
6:Cb:203:ASN:O	6:Cb:215:ILE:HD12	2.20	0.42
2:Cj:5:ILE:CD1	6:Ct:139:TYR:HB3	2.50	0.42
6:Ct:132:GLN:N	6:Ct:132:GLN:CD	2.77	0.42
6:Ct:154:THR:HG23	6:Ct:252:VAL:HG22	2.00	0.42
6:Ct:220:LEU:HG	6:Ct:221:TYR:CD2	2.54	0.42
2:Cv:5:ILE:HD12	6:Df:139:TYR:CD2	2.47	0.42
6:Df:179:LEU:HB3	6:Df:254:LEU:HD11	2.00	0.42
5:Dk:214:ALA:HB3	5:Dk:221:TRP:CD1	2.51	0.42
6:Dl:236:PRO:HB2	6:Dr:251:ARG:NH2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dm:6:LEU:HD12	1:Dm:7:ALA:N	2.34	0.42
6:Dr:187:ALA:HB1	6:Dr:262:ASN:HB2	2.01	0.42
6:Dx:220:LEU:HB3	6:Dx:221:TYR:CE2	2.55	0.42
6:Ed:115:MET:CE	7:Et:801:MET:HE3	2.49	0.42
7:Ej:788:GLN:O	7:Ej:792:GLN:OE1	2.38	0.42
8:Ew:175:SER:HB3	8:Ex:244:ASN:ND2	2.35	0.42
8:Ex:424:TYR:OH	8:Ey:383:LEU:N	2.52	0.42
8:Ey:409:ALA:O	8:Ey:412:GLN:HG2	2.20	0.42
8:Ez:123:GLN:O	8:Ez:135:LYS:HD2	2.19	0.42
9:Fb:370:PHE:CE1	9:Fb:565:SER:HB3	2.54	0.42
9:Fb:714:SER:HB2	9:Fc:598:VAL:HG12	2.02	0.42
9:Fc:100:SER:HB3	7:Fg:16:ARG:NH1	2.35	0.42
9:Fc:648:PHE:HE1	9:Fc:724:ILE:HD11	1.83	0.42
9:Fd:49:LEU:HG	9:Fd:51:GLY:H	1.85	0.42
9:Fd:195:GLN:NE2	9:Fd:232:ASP:HA	2.34	0.42
9:Fd:635:TYR:O	9:Fd:639:TYR:HB3	2.19	0.42
9:Fe:624:LEU:O	9:Fe:628:MET:HB2	2.19	0.42
9:Fe:632:PHE:N	9:Fe:632:PHE:CD1	2.88	0.42
9:Ff:464:ALA:HB1	9:Ff:819:TYR:HE2	1.83	0.42
9:Ff:547:GLN:HA	9:Ff:568:TYR:HE1	1.85	0.42
7:Fi:3:SER:HB3	7:Fi:6:GLU:OE1	2.20	0.42
6:Af:203:ASN:HB3	6:Af:216:GLN:OE1	2.19	0.42
5:Ak:213:GLN:HB2	5:Ak:223:ILE:HG22	2.02	0.42
6:Ar:105:GLU:O	6:Ar:108:ASP:HB3	2.19	0.42
6:Ar:238:MET:HB3	6:Ax:250:TYR:CZ	2.55	0.42
6:Bj:229:ARG:HD3	6:Bj:229:ARG:C	2.45	0.42
3:Bm:2:VAL:HG11	6:Cb:129:LYS:HG2	2.02	0.42
4:Bn:4:ALA:HB3	5:Bo:251:GLN:NE2	2.35	0.42
6:Bp:138:GLU:O	6:Bp:141:LYS:HB3	2.20	0.42
6:Bp:158:VAL:HG13	6:Bp:167:PRO:HG2	2.01	0.42
6:Ch:119:LEU:HD22	7:El:805:ALA:HB1	2.02	0.42
1:Co:15:ASN:HB3	2:Cv:9:ARG:NH1	2.35	0.42
6:Ct:182:LEU:HD12	6:Ct:253:ASP:OD2	2.20	0.42
1:Da:11:TYR:HD2	3:Dc:9:TYR:HB3	1.84	0.42
2:Db:4:MET:HE1	5:De:249:SER:H	1.80	0.42
5:Dk:216:ILE:CD1	6:Dr:148:PRO:HG2	2.50	0.42
6:Dr:123:ASN:ND2	6:Dr:124:PRO:HD2	2.35	0.42
1:Ds:11:TYR:CD2	3:Du:9:TYR:HB3	2.55	0.42
6:Ed:207:ASP:HB3	7:Ev:820:TYR:CE2	2.55	0.42
7:Ei:798:THR:O	7:Ei:802:LEU:HD22	2.20	0.42
7:Eq:776:ALA:C	7:Eq:780:LYS:HZ3	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Er:813:LYS:HD3	7:Er:813:LYS:N	2.35	0.42
7:Es:809:VAL:O	7:Es:813:LYS:HE3	2.19	0.42
8:Ew:342:VAL:HG13	8:Ew:438:LEU:HD11	2.00	0.42
8:Ex:220:PRO:HG3	8:Ex:227:THR:HG23	2.00	0.42
8:Ex:252:LEU:HD11	8:Ex:373:LEU:CA	2.49	0.42
8:Ex:359:MET:N	8:Ex:359:MET:SD	2.93	0.42
8:Ez:239:LEU:HA	8:Ez:242:GLN:NE2	2.35	0.42
8:Fa:342:VAL:HG11	8:Fa:442:ILE:HG13	2.00	0.42
9:Fb:734:LEU:HD12	9:Fb:734:LEU:O	2.18	0.42
9:Fb:922:TYR:O	9:Fb:923:LEU:C	2.63	0.42
9:Fc:240:VAL:HA	9:Fc:333:ALA:HB1	2.00	0.42
9:Fc:599:ASP:OD1	9:Fc:599:ASP:C	2.62	0.42
9:Fc:614:ARG:HG2	9:Fc:623:CYS:HB3	2.02	0.42
9:Fc:924:ILE:HA	9:Fc:927:GLN:HB3	2.01	0.42
9:Fe:266:PHE:CE2	9:Fe:275:LEU:HB2	2.48	0.42
9:Fe:275:LEU:HD21	9:Fe:519:TRP:HH2	1.85	0.42
9:Fe:701:GLY:O	9:Fe:705:LEU:HG	2.20	0.42
9:Fe:728:ILE:CD1	9:Ff:730:MET:HB3	2.50	0.42
9:Ff:193:GLY:O	9:Ff:197:GLN:HG3	2.20	0.42
9:Ff:426:TYR:O	9:Ff:430:MET:HG2	2.19	0.42
7:Fi:8:LEU:HB3	7:Fi:12:PHE:CZ	2.54	0.42
1:Aa:9:LEU:O	1:Aa:13:LYS:HG2	2.19	0.42
6:Af:199:PRO:HD2	7:Ef:816:GLU:HG2	2.00	0.42
6:Al:151:PRO:HA	6:Al:248:VAL:HG23	2.02	0.42
6:Ax:231:ARG:HD3	6:Ax:231:ARG:HA	1.92	0.42
6:Bd:230:LEU:HB2	6:Bd:233:LEU:CD2	2.50	0.42
6:Bj:115:MET:O	6:Bj:119:LEU:HD22	2.20	0.42
5:Bo:219:ARG:H	6:Bv:148:PRO:HD2	1.84	0.42
6:Bp:189:TRP:CE2	6:Bp:260:GLY:HA2	2.55	0.42
1:Bw:1:CYS:HB2	3:By:16:ASP:HB3	2.02	0.42
5:Ca:238:ILE:HB	5:Ca:241:TYR:HB2	2.00	0.42
6:Cb:168:VAL:C	6:Cb:169:ILE:HD13	2.45	0.42
1:Ci:1:CYS:HA	4:Cl:2:PHE:CG	2.55	0.42
3:Cq:2:VAL:HG21	6:Df:129:LYS:CD	2.50	0.42
3:Cw:12:LYS:O	3:Cw:13:LYS:HG3	2.19	0.42
5:Cy:212:ILE:HB	5:Cy:264:PHE:CE2	2.54	0.42
6:Cz:216:GLN:HB3	7:Eq:818:GLN:NE2	2.34	0.42
5:De:219:ARG:HH21	5:De:231:THR:HB	1.84	0.42
6:Dl:204:ILE:HD13	6:Dl:215:ILE:CD1	2.49	0.42
6:Dr:126:GLN:HB3	6:Dx:112:PHE:CE1	2.54	0.42
6:Dr:167:PRO:O	6:Dr:239:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Dr:221:TYR:CE1	6:Dx:139:TYR:CD2	3.07	0.42
1:Ds:3:ASP:HB3	3:Du:14:TYR:CD2	2.54	0.42
7:Ej:771:ALA:O	7:Ej:774:LEU:HD12	2.19	0.42
7:Ej:777:ILE:HG13	9:Fd:338:GLN:HE21	1.85	0.42
8:Ew:170:LEU:N	8:Ew:176:GLN:HE22	2.17	0.42
8:Ew:242:GLN:NE2	8:Ew:269:ALA:H	2.18	0.42
8:Ew:399:TRP:HH2	8:Fa:417:ILE:HA	1.84	0.42
8:Ex:69:PHE:CE2	8:Ex:403:ILE:HD13	2.54	0.42
8:Ex:194:GLU:HG2	8:Ex:196:LYS:HZ2	1.85	0.42
8:Ex:298:TYR:CE2	8:Ey:221:ALA:HB2	2.53	0.42
8:Ey:174:VAL:HG23	8:Ez:244:ASN:HD21	1.84	0.42
8:Fa:69:PHE:CE2	8:Fa:402:GLN:HB3	2.54	0.42
8:Fa:301:LEU:HB2	8:Fa:326:LEU:HD21	2.01	0.42
8:Fa:432:ILE:O	8:Fa:436:ILE:HG12	2.20	0.42
9:Fb:373:ILE:HD11	9:Fb:533:LEU:HB2	2.01	0.42
9:Fb:912:PHE:O	9:Fb:913:PHE:C	2.63	0.42
9:Fb:913:PHE:CE1	9:Ff:751:TYR:HB3	2.55	0.42
9:Fc:208:GLN:HA	9:Fc:210:LYS:NZ	2.35	0.42
9:Fd:128:PHE:CD2	9:Fd:128:PHE:N	2.88	0.42
9:Fd:662:ILE:H	9:Fd:662:ILE:HD12	1.85	0.42
9:Fe:596:PHE:CD1	9:Fe:596:PHE:C	2.97	0.42
9:Fe:667:MET:HG3	9:Fe:911:PHE:CZ	2.55	0.42
9:Fe:741:THR:HG23	9:Fe:916:LEU:HD11	2.01	0.42
9:Fe:804:ILE:O	9:Fe:808:VAL:HG22	2.20	0.42
9:Ff:221:GLU:H	9:Ff:221:GLU:CD	2.27	0.42
9:Ff:290:LEU:HD12	9:Ff:290:LEU:H	1.85	0.42
9:Ff:447:LYS:H	9:Ff:447:LYS:CD	2.33	0.42
9:Ff:468:PHE:CG	9:Ff:469:PHE:N	2.86	0.42
9:Ff:600:THR:HG22	9:Ff:648:PHE:CE2	2.55	0.42
9:Ff:624:LEU:HD12	9:Ff:625:GLY:N	2.35	0.42
7:Fi:27:LEU:HA	7:Fi:30:ILE:HG12	2.01	0.42
6:Af:150:LYS:N	6:Af:247:ALA:HA	2.35	0.42
5:Ak:219:ARG:HD3	6:Ar:148:PRO:O	2.19	0.42
6:Al:196:LEU:O	6:Al:199:PRO:HD3	2.20	0.42
5:Aq:260:GLN:H	5:Aq:260:GLN:HG3	1.61	0.42
6:Ar:118:ASN:O	6:Ar:121:PRO:HD3	2.19	0.42
6:Ar:181:PHE:CZ	6:Ar:213:LEU:HD12	2.55	0.42
6:Ax:199:PRO:HG3	7:Ei:817:THR:O	2.19	0.42
5:Bc:265:SER:HB3	5:Bc:268:ASP:HB3	2.02	0.42
6:Bd:170:ARG:HG3	6:Bd:249:ASP:HB2	2.02	0.42
5:Bi:218:GLY:HA3	6:Bp:148:PRO:CD	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bj:171:LEU:HB2	6:Bj:243:PRO:HB3	2.02	0.42
6:Bp:107:ILE:CD1	7:El:794:ILE:HG13	2.50	0.42
6:Bp:126:GLN:CA	6:Bp:129:LYS:HG3	2.44	0.42
6:Bp:199:PRO:HG3	7:El:819:VAL:HG13	2.02	0.42
6:Bv:135:GLU:HA	6:Bv:138:GLU:OE1	2.20	0.42
6:Bv:137:SER:HB3	6:Cb:120:TYR:CE2	2.55	0.42
6:Bv:173:GLN:O	6:Bv:175:PHE:HD1	2.03	0.42
6:Bv:202:PHE:CE2	6:Bv:241:LEU:HB2	2.54	0.42
6:Cb:191:ILE:HB	6:Cb:206:TRP:CH2	2.55	0.42
6:Ch:204:ILE:HD12	6:Ch:214:MET:O	2.20	0.42
6:Ch:209:THR:HG22	7:Eo:824:THR:HG21	2.01	0.42
3:Cq:6:GLY:HA2	6:Df:132:GLN:OE1	2.20	0.42
6:Ct:223:TYR:HB3	6:Ct:242:ILE:HD13	2.02	0.42
5:Dk:253:ARG:NE	5:Dk:255:LEU:HD21	2.35	0.42
5:Dq:253:ARG:HB2	5:Dq:263:LYS:HZ2	1.84	0.42
7:El:797:ARG:HB2	7:El:801:MET:CE	2.50	0.42
8:Ew:220:PRO:HG3	8:Ew:227:THR:HG23	2.02	0.42
8:Ex:37:SER:O	8:Ex:41:THR:HG22	2.20	0.42
8:Ey:302:TRP:HH2	8:Ez:218:LEU:O	2.03	0.42
8:Ey:350:ILE:HG22	8:Ey:354:ARG:NH2	2.35	0.42
8:Ey:437:LEU:H	8:Ey:437:LEU:HD22	1.85	0.42
8:Ez:108:GLY:O	8:Ez:112:ILE:HD12	2.20	0.42
8:Ez:381:ARG:HH21	8:Ez:382:ARG:HH11	1.67	0.42
9:Fb:618:LEU:HB2	9:Ff:618:LEU:HD21	2.00	0.42
9:Fb:726:ALA:O	9:Fb:727:LEU:C	2.62	0.42
9:Fb:739:ILE:O	9:Fb:743:VAL:HG13	2.20	0.42
9:Fb:768:TRP:HB2	9:Fb:815:MET:HE1	2.02	0.42
9:Fc:139:ALA:HB2	9:Fc:812:PRO:HB2	2.02	0.42
9:Fc:147:LEU:HB2	9:Fc:453:ILE:HG23	2.01	0.42
9:Fc:219:THR:CG2	9:Fc:222:MET:HG2	2.49	0.42
9:Fc:420:LEU:HA	9:Fc:423:ILE:HG12	2.02	0.42
9:Fc:767:ALA:HA	9:Fc:770:ILE:CD1	2.49	0.42
9:Fd:218:PRO:HB2	9:Fd:223:ASN:OD1	2.20	0.42
9:Fd:500:GLN:HA	9:Fd:503:LYS:CG	2.48	0.42
9:Fd:828:VAL:O	9:Fd:832:ILE:HG12	2.19	0.42
9:Fe:223:ASN:O	9:Fe:227:ARG:HG2	2.20	0.42
9:Fe:268:LYS:HD3	9:Ff:403:PRO:HB3	2.01	0.42
9:Fe:718:PRO:O	9:Fe:719:LEU:HB2	2.18	0.42
9:Fe:725:PHE:HA	9:Fe:728:ILE:HG22	2.01	0.42
9:Ff:234:ILE:HG22	9:Ff:340:TYR:OH	2.20	0.42
9:Ff:525:ASP:HA	9:Ff:528:ILE:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ff:753:ILE:HA	9:Ff:756:LEU:HB3	2.01	0.42
9:Ff:837:PHE:CG	9:Ff:838:ASP:N	2.87	0.42
5:Ak:207:ARG:HH22	5:Ak:240:GLY:HA3	1.85	0.42
1:Am:4:ALA:H	2:An:9:ARG:NH2	2.17	0.42
1:Am:4:ALA:H	2:An:9:ARG:HH22	1.67	0.42
6:Ar:113:LYS:HD3	6:Ar:113:LYS:HA	1.75	0.42
6:Ar:200:SER:HB3	7:Eh:816:GLU:HG3	2.01	0.42
6:Ar:230:LEU:HD23	6:Ar:230:LEU:HA	1.90	0.42
5:Bc:248:ASP:HB3	5:Bc:253:ARG:HE	1.84	0.42
5:Bc:248:ASP:CG	5:Bc:253:ARG:HH21	2.28	0.42
6:Bj:122:LEU:HD12	7:Ei:808:LEU:HD11	2.02	0.42
1:Bq:1:CYS:HA	4:Bt:2:PHE:CG	2.55	0.42
6:Bv:108:ASP:HA	7:Ej:797:ARG:NH1	2.34	0.42
5:Ca:222:LEU:HD11	5:Ca:262:ILE:HG21	2.01	0.42
6:Cn:183:ASP:HB3	6:Cn:189:TRP:CE3	2.55	0.42
6:Ct:115:MET:HE2	7:En:798:THR:O	2.19	0.42
1:Cu:3:ASP:O	1:Cu:6:LEU:HD12	2.19	0.42
6:Cz:214:MET:C	6:Cz:215:ILE:HD12	2.45	0.42
2:Db:4:MET:HE1	5:De:250:LEU:H	1.84	0.42
5:De:219:ARG:HA	5:De:232:VAL:O	2.20	0.42
5:De:219:ARG:CZ	6:Dl:150:LYS:HB3	2.50	0.42
6:Dl:238:MET:SD	6:Dr:250:TYR:CD2	3.13	0.42
2:Dn:9:ARG:HD3	3:Do:15:ASP:OD1	2.20	0.42
5:Dw:216:ILE:HG23	5:Dw:221:TRP:CZ3	2.55	0.42
6:Ed:221:TYR:CE2	6:Ed:244:GLY:HA3	2.55	0.42
7:Ee:793:GLU:HA	7:Ee:796:GLN:HE21	1.85	0.42
7:Eh:797:ARG:O	7:Eh:801:MET:HG2	2.20	0.42
7:Em:809:VAL:O	7:Em:813:LYS:HG2	2.20	0.42
8:Ew:62:ASN:HB2	8:Ex:48:LYS:NZ	2.35	0.42
8:Ew:240:ILE:HD11	8:Fa:175:SER:HA	2.01	0.42
8:Ex:274:GLN:O	8:Ex:277:LEU:HD12	2.20	0.42
8:Ey:82:TYR:CD2	8:Ez:384:PHE:HB3	2.55	0.42
8:Ez:234:LYS:HA	8:Ez:237:GLN:CD	2.45	0.42
8:Fa:185:PRO:HG2	8:Fa:206:TYR:HA	2.02	0.42
8:Fa:248:LEU:HD21	8:Fa:279:PHE:HB3	2.02	0.42
9:Fb:399:TRP:CE3	9:Fb:416:GLY:HA3	2.55	0.42
9:Fb:530:ILE:HG22	9:Fb:534:ILE:HD11	2.01	0.42
9:Fc:76:ILE:HD12	9:Fc:76:ILE:HA	1.88	0.42
9:Fc:274:PHE:CD2	9:Fc:515:LEU:HD13	2.55	0.42
9:Fc:596:PHE:CD1	9:Fc:656:VAL:HG11	2.55	0.42
9:Fc:698:ASN:HA	9:Fd:905:TRP:HH2	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fc:810:LEU:HB3	9:Fc:814:LEU:CD1	2.50	0.42
9:Fd:37:PHE:HE2	9:Fe:831:TRP:HE3	1.68	0.42
9:Fd:94:LEU:HD23	9:Fd:94:LEU:HA	1.90	0.42
9:Fd:143:TRP:CD1	9:Fd:143:TRP:C	2.98	0.42
9:Fd:147:LEU:HD12	9:Fd:148:SER:N	2.35	0.42
9:Fd:220:PRO:O	9:Fd:224:THR:HG23	2.19	0.42
9:Fd:294:ASN:HD21	9:Fd:304:VAL:HG23	1.85	0.42
9:Fd:673:VAL:HA	9:Fd:676:GLN:HG2	2.01	0.42
9:Fe:87:THR:HG23	9:Fe:92:GLN:O	2.20	0.42
9:Fe:720:PHE:O	9:Fe:722:ILE:N	2.53	0.42
9:Fe:912:PHE:O	9:Fe:913:PHE:C	2.63	0.42
9:Ff:194:LEU:HD21	9:Ff:278:ILE:HG21	2.01	0.42
7:Fk:36:PHE:HA	7:Fk:39:ILE:CG1	2.50	0.42
3:Ao:1:ARG:HG2	3:Ao:2:VAL:N	2.35	0.41
2:Az:6:GLY:CA	6:Bp:125:GLU:HB3	2.49	0.41
6:Bj:107:ILE:HG23	7:Eh:794:ILE:HG13	2.01	0.41
6:Bj:123:ASN:HB3	6:Bj:126:GLN:HG3	2.01	0.41
1:Bk:2:THR:O	1:Bk:6:LEU:HG	2.20	0.41
5:Bo:253:ARG:C	5:Bo:253:ARG:NE	2.77	0.41
6:Bp:123:ASN:HB3	6:Bp:126:GLN:CD	2.45	0.41
6:Bp:144:THR:HA	6:Bp:145:PRO:HD3	1.91	0.41
1:Ci:11:TYR:CE2	3:Ck:9:TYR:HB3	2.55	0.41
6:Cn:251:ARG:HH22	6:Cn:253:ASP:N	2.18	0.41
5:Cs:254:ILE:O	5:Cs:261:VAL:HA	2.18	0.41
6:Cz:107:ILE:HA	6:Cz:110:LYS:NZ	2.28	0.41
6:Cz:238:MET:HE3	6:Df:250:TYR:CE2	2.55	0.41
6:Df:204:ILE:HD11	6:Df:213:LEU:CD1	2.50	0.41
5:Dk:247:ILE:HG13	5:Dk:254:ILE:HD12	2.01	0.41
6:Dl:208:LYS:HB3	7:Et:824:THR:HG22	2.01	0.41
6:Dr:149:PRO:HA	6:Dr:246:LYS:O	2.20	0.41
6:Dr:221:TYR:HD2	6:Dr:244:GLY:HA3	1.84	0.41
5:Dw:219:ARG:HG2	6:Ed:148:PRO:HD2	2.03	0.41
6:Dx:110:LYS:HG3	6:Dx:111:ALA:N	2.35	0.41
7:Ei:777:ILE:HB	7:Ej:778:LEU:HD13	2.02	0.41
7:Ei:789:LYS:HA	7:Ei:792:GLN:HE22	1.84	0.41
7:Eo:822:GLU:OE1	7:Eo:822:GLU:N	2.52	0.41
7:Eq:777:ILE:HA	7:Eq:780:LYS:HZ3	1.85	0.41
8:Ew:39:LEU:HD11	8:Ex:39:LEU:HD21	2.02	0.41
8:Ex:207:GLN:OE1	8:Ex:291:SER:HA	2.20	0.41
8:Ex:436:ILE:HG22	8:Ex:440:ASN:OD1	2.20	0.41
8:Ey:298:TYR:HE2	8:Ez:221:ALA:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ey:302:TRP:HZ3	8:Ez:218:LEU:HG	1.82	0.41
8:Ez:188:SER:OG	8:Ez:295:LEU:HG	2.19	0.41
8:Ez:193:ASN:HD21	9:Ff:217:ASN:H	1.67	0.41
8:Ez:368:ILE:HA	8:Ez:368:ILE:HD13	1.83	0.41
8:Fa:373:LEU:O	8:Fa:376:PHE:HB3	2.20	0.41
9:Fb:93:MET:HE1	9:Fb:100:SER:OG	2.19	0.41
9:Fb:612:CYS:SG	9:Fb:614:ARG:HG2	2.60	0.41
9:Fb:693:GLY:HA2	9:Fb:696:TYR:HD2	1.85	0.41
9:Fc:334:ILE:HD12	9:Fc:335:ALA:N	2.34	0.41
9:Fc:431:MET:HE3	9:Fc:432:PRO:HD3	2.02	0.41
9:Fc:455:GLU:O	9:Fc:458:ALA:HB3	2.20	0.41
9:Fc:728:ILE:HD11	9:Fd:730:MET:HB3	2.02	0.41
9:Fc:756:LEU:HA	9:Fc:756:LEU:HD12	1.84	0.41
9:Fd:426:TYR:CD2	9:Fd:430:MET:HE2	2.55	0.41
9:Fd:617:ILE:H	9:Fd:617:ILE:HD12	1.85	0.41
9:Fe:124:MET:HG2	9:Fe:783:ALA:HB2	2.01	0.41
9:Ff:547:GLN:HA	9:Ff:568:TYR:CE1	2.54	0.41
9:Ff:553:ASN:HB3	9:Ff:556:ARG:CZ	2.50	0.41
9:Ff:554:PRO:HB3	9:Ff:587:PRO:HA	2.02	0.41
9:Ff:703:LEU:HA	9:Ff:706:THR:OG1	2.20	0.41
6:Ar:221:TYR:CE1	6:Ax:142:ALA:HB3	2.56	0.41
2:At:6:GLY:CA	6:Bj:125:GLU:HB2	2.50	0.41
3:Au:6:GLY:HA2	6:Bj:132:GLN:HE22	1.85	0.41
5:Aw:219:ARG:HH12	5:Aw:233:ARG:HD3	1.85	0.41
6:Ax:129:LYS:HE2	6:Ax:129:LYS:HB3	1.79	0.41
3:Ba:1:ARG:HG2	3:Ba:2:VAL:N	2.35	0.41
5:Bu:210:TYR:O	5:Bu:262:ILE:HD11	2.20	0.41
6:Bv:168:VAL:C	6:Bv:169:ILE:HD13	2.44	0.41
1:Bw:6:LEU:HD11	5:Ca:246:LEU:HD23	2.02	0.41
6:Ct:112:PHE:CD1	6:Ct:112:PHE:O	2.74	0.41
6:Ct:126:GLN:HB3	6:Cz:112:PHE:CE1	2.55	0.41
6:Cz:129:LYS:O	6:Cz:132:GLN:HG3	2.20	0.41
5:Dk:218:GLY:HA3	6:Dr:148:PRO:HD3	2.02	0.41
5:Dq:207:ARG:NH2	5:Dq:240:GLY:HA3	2.35	0.41
6:Dr:220:LEU:HD12	6:Dx:138:GLU:OE2	2.20	0.41
7:Ef:770:SER:O	7:Ef:774:LEU:HG	2.19	0.41
7:Em:812:TRP:HD1	7:Em:812:TRP:N	2.16	0.41
8:Ew:205:MET:HE1	8:Ew:209:LEU:HG	2.02	0.41
8:Ew:383:LEU:N	8:Fa:424:TYR:OH	2.53	0.41
8:Ex:210:VAL:O	8:Ex:214:VAL:HG23	2.20	0.41
8:Ex:294:LYS:HD3	8:Ex:294:LYS:HA	1.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ex:441:SER:CB	8:Ey:346:ASN:OD1	2.68	0.41
8:Ey:228:PRO:HB3	8:Ey:234:LYS:HG3	2.02	0.41
8:Ey:302:TRP:HD1	8:Ey:303:ASN:HD22	1.67	0.41
8:Ey:426:MET:SD	8:Ez:425:GLN:NE2	2.94	0.41
8:Ey:431:GLN:HA	8:Ey:434:GLU:HG2	2.02	0.41
8:Ez:75:GLN:HB3	8:Fa:400:ILE:HD11	2.02	0.41
8:Fa:290:PRO:HG3	8:Fa:336:TYR:HE2	1.86	0.41
9:Fb:756:LEU:O	9:Fb:760:ILE:HG13	2.20	0.41
9:Fc:268:LYS:HE2	9:Fd:403:PRO:HA	2.02	0.41
9:Fc:274:PHE:CG	9:Fc:515:LEU:HD13	2.56	0.41
9:Fc:500:GLN:HB2	9:Fc:503:LYS:HZ2	1.85	0.41
9:Fc:747:PHE:O	9:Fc:751:TYR:HB2	2.20	0.41
9:Fc:766:PHE:O	9:Fc:766:PHE:HD1	2.03	0.41
9:Fd:179:LYS:HD2	9:Fd:179:LYS:O	2.21	0.41
9:Fe:90:GLU:HG3	9:Fe:91:GLY:N	2.35	0.41
9:Fe:640:VAL:O	9:Fe:644:PHE:CD2	2.73	0.41
9:Fe:678:LEU:HD12	9:Fe:679:THR:HG23	2.01	0.41
6:Af:121:PRO:HB3	7:Ev:800:ASP:OD1	2.20	0.41
6:Ar:170:ARG:HD2	6:Ar:247:ALA:HB3	2.00	0.41
6:Ar:181:PHE:CE2	6:Ar:191:ILE:HD11	2.51	0.41
5:Aw:237:LYS:HD3	5:Aw:243:MET:HB3	2.03	0.41
1:Ay:6:LEU:O	1:Ay:9:LEU:HG	2.21	0.41
6:Bd:115:MET:HE1	7:Eg:802:LEU:HB3	2.02	0.41
1:Be:11:TYR:HE2	3:Bg:11:ALA:HA	1.84	0.41
6:Bj:156:GLN:OE1	6:Bj:156:GLN:N	2.53	0.41
6:Bj:182:LEU:HD11	6:Bj:186:GLY:C	2.45	0.41
6:Bp:219:LYS:HD2	6:Bp:220:LEU:N	2.35	0.41
6:Cb:125:GLU:O	6:Cb:129:LYS:HG3	2.20	0.41
6:Ch:130:LEU:CD2	7:Em:808:LEU:HD12	2.50	0.41
6:Ch:181:PHE:CD1	6:Ch:181:PHE:C	2.97	0.41
3:Ck:4:ILE:HG12	6:Ct:146:GLY:N	2.35	0.41
6:Ct:126:GLN:HG2	6:Ct:129:LYS:HE2	2.02	0.41
1:Cu:2:THR:O	1:Cu:6:LEU:HG	2.20	0.41
2:Cv:1:CYS:HA	3:Cw:4:ILE:HD13	2.01	0.41
6:Df:191:ILE:HD13	6:Df:213:LEU:CD2	2.50	0.41
6:Df:220:LEU:HD23	6:Df:220:LEU:HA	1.83	0.41
6:Df:233:LEU:H	6:Df:233:LEU:HD12	1.85	0.41
6:Di:229:ARG:C	6:Di:229:ARG:HD3	2.45	0.41
6:Dr:170:ARG:HG3	6:Dr:248:VAL:HA	2.03	0.41
6:Dr:173:GLN:OE1	6:Dr:220:LEU:HD23	2.21	0.41
6:Dr:236:PRO:HG2	6:Dr:238:MET:CE	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Du:1:ARG:HG2	3:Du:2:VAL:N	2.35	0.41
7:Ej:790:TYR:CE2	7:Ej:794:ILE:HD11	2.55	0.41
7:Es:799:SER:O	7:Es:802:LEU:HD12	2.20	0.41
8:Ey:170:LEU:HD21	8:Ey:175:SER:HB2	2.02	0.41
8:Ey:427:TYR:C	8:Ey:427:TYR:CD2	2.97	0.41
8:Fa:102:VAL:HB	8:Fa:106:VAL:HG21	2.03	0.41
8:Fa:206:TYR:CE2	8:Fa:209:LEU:HG	2.55	0.41
9:Fb:517:CYS:SG	9:Fb:522:ASN:HA	2.60	0.41
9:Fb:768:TRP:NE1	9:Fb:812:PRO:HG3	2.36	0.41
9:Fc:78:TYR:O	9:Fc:82:VAL:HG13	2.20	0.41
9:Fc:339:MET:HA	9:Fc:342:THR:HG22	2.02	0.41
9:Fc:346:VAL:O	9:Fc:349:VAL:HG12	2.20	0.41
9:Fc:530:ILE:O	9:Fc:534:ILE:HG13	2.20	0.41
9:Fc:766:PHE:CE2	9:Fd:925:ILE:HG23	2.55	0.41
9:Fd:510:GLN:N	9:Fd:510:GLN:OE1	2.53	0.41
9:Fe:642:ASN:HA	9:Fe:645:LEU:HD12	2.03	0.41
9:Fe:800:PHE:O	9:Fe:803:MET:HE3	2.21	0.41
9:Ff:140:ASP:OD1	9:Ff:461:TRP:HD1	2.03	0.41
9:Ff:686:ILE:O	9:Ff:689:LEU:HD12	2.21	0.41
7:Fh:35:GLY:HA2	7:Fh:38:LYS:HZ3	1.85	0.41
6:Ax:181:PHE:CE2	6:Ax:228:VAL:HG11	2.55	0.41
6:Ax:191:ILE:HB	6:Ax:206:TRP:CZ2	2.55	0.41
5:Bi:219:ARG:NH2	6:Bp:150:LYS:HD2	2.35	0.41
6:Bj:166:PRO:HG3	6:Bp:250:TYR:CE1	2.55	0.41
6:Bp:149:PRO:HB3	6:Bp:247:ALA:C	2.46	0.41
1:Bw:16:ALA:HB3	2:Cd:9:ARG:HG2	2.02	0.41
5:Ca:233:ARG:CZ	5:Ca:236:SER:HB2	2.50	0.41
6:Cb:123:ASN:HB3	6:Cb:126:GLN:HE22	1.86	0.41
6:Cn:115:MET:HE1	7:Em:798:THR:HA	2.01	0.41
6:Cn:214:MET:HE1	7:Eo:818:GLN:NE2	2.26	0.41
6:Cn:238:MET:HE2	6:Ct:250:TYR:CD2	2.55	0.41
6:Ct:125:GLU:O	6:Ct:129:LYS:HG3	2.20	0.41
6:Ct:170:ARG:HB3	6:Ct:247:ALA:O	2.20	0.41
5:Cy:214:ALA:HB1	6:Cz:242:ILE:HG21	2.02	0.41
6:Cz:220:LEU:HD13	6:Df:138:GLU:CD	2.45	0.41
6:Dl:135:GLU:HA	6:Dl:138:GLU:OE2	2.20	0.41
6:Dl:207:ASP:OD2	6:Dl:207:ASP:C	2.63	0.41
6:Dr:108:ASP:HB3	6:Dr:112:PHE:CZ	2.54	0.41
6:Dr:148:PRO:HA	6:Dr:149:PRO:HD3	1.95	0.41
5:Ec:233:ARG:HG3	5:Ec:234:GLU:H	1.86	0.41
7:Em:799:SER:HA	7:Em:802:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Em:805:ALA:HA	7:Em:808:LEU:HG	2.02	0.41
7:Ep:806:THR:O	7:Ep:810:GLN:HG3	2.21	0.41
7:Er:799:SER:HB2	9:Fb:363:THR:CB	2.51	0.41
7:Et:810:GLN:HA	7:Et:813:LYS:NZ	2.36	0.41
7:Eu:780:LYS:O	7:Eu:784:GLN:HG2	2.19	0.41
8:Ew:39:LEU:CD1	8:Ex:39:LEU:HD11	2.48	0.41
8:Ew:228:PRO:HG2	8:Ew:235:TYR:HB2	2.02	0.41
8:Ex:330:PHE:HB2	8:Ex:334:ARG:HH12	1.84	0.41
8:Ex:349:TYR:CZ	8:Ex:353:LYS:HD3	2.56	0.41
8:Ex:432:ILE:HA	8:Ex:435:ARG:HG2	2.02	0.41
8:Ey:443:MET:SD	8:Ey:444:LEU:HD23	2.60	0.41
8:Fa:139:ASN:O	8:Fa:142:ILE:HG13	2.21	0.41
8:Fa:349:TYR:O	8:Fa:349:TYR:HD1	2.03	0.41
9:Fb:268:LYS:C	9:Fb:268:LYS:HD2	2.46	0.41
9:Fb:608:GLN:OE1	9:Fb:608:GLN:N	2.53	0.41
9:Fb:769:LEU:O	9:Fb:773:ILE:HG13	2.20	0.41
9:Fb:818:GLY:C	9:Fb:933:ILE:HG13	2.45	0.41
9:Fc:65:ASN:O	9:Fc:68:VAL:HG12	2.20	0.41
9:Fc:195:GLN:HA	9:Fc:198:LEU:HD12	2.02	0.41
9:Fc:527:LEU:O	9:Fc:531:GLN:HG2	2.20	0.41
9:Fd:768:TRP:HB2	9:Fd:811:ARG:NH2	2.35	0.41
9:Ff:194:LEU:HA	9:Ff:197:GLN:HG3	2.02	0.41
7:Fh:25:ALA:HA	7:Fh:28:LEU:HG	2.01	0.41
7:Fj:15:THR:HA	7:Fj:18:ARG:CD	2.51	0.41
6:Af:156:GLN:HE22	6:Af:252:VAL:HB	1.86	0.41
6:Al:123:ASN:ND2	6:Al:124:PRO:HD2	2.36	0.41
6:Al:191:ILE:HG13	6:Al:211:ASN:HA	2.02	0.41
6:Al:245:GLN:CD	6:Al:247:ALA:H	2.28	0.41
6:Ar:250:TYR:O	6:Ar:251:ARG:HG2	2.20	0.41
3:Au:2:VAL:HG21	6:Bj:129:LYS:HG2	2.03	0.41
6:Ax:124:PRO:O	6:Ax:128:VAL:HG12	2.21	0.41
6:Ax:203:ASN:HB3	6:Ax:216:GLN:OE1	2.21	0.41
5:Bi:238:ILE:HD11	5:Bi:244:VAL:HB	2.02	0.41
5:Bi:246:LEU:HD12	5:Bi:247:ILE:H	1.85	0.41
6:Bj:228:VAL:CG1	6:Bj:237:VAL:HB	2.48	0.41
6:Bv:195:ASP:O	6:Bv:226:LEU:HD12	2.20	0.41
6:Cb:251:ARG:HE	6:Cb:251:ARG:HB3	1.55	0.41
6:Ch:113:LYS:NZ	6:Ch:117:ARG:HB2	2.36	0.41
6:Ch:187:ALA:HB1	6:Ch:262:ASN:HB2	2.02	0.41
6:Cn:123:ASN:HB2	6:Cn:126:GLN:OE1	2.21	0.41
6:Dl:184:SER:HA	6:Dl:255:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Do:5:GLY:HA3	4:Dv:1:PRO:HB3	2.02	0.41
6:Dr:191:ILE:HD13	6:Dr:213:LEU:HG	2.01	0.41
2:Dt:1:CYS:HA	3:Du:4:ILE:HD13	2.02	0.41
6:Ed:115:MET:HE1	7:Et:801:MET:HB3	2.03	0.41
6:Ed:129:LYS:O	6:Ed:132:GLN:HG3	2.20	0.41
7:Em:800:ASP:OD2	7:Em:800:ASP:C	2.64	0.41
7:Ev:793:GLU:HA	7:Ev:796:GLN:OE1	2.21	0.41
8:Ew:77:VAL:HG12	8:Ew:378:MET:SD	2.61	0.41
8:Ey:270:LYS:HD2	8:Ey:270:LYS:N	2.36	0.41
8:Ez:307:ALA:HB3	8:Ez:319:GLN:HG3	2.01	0.41
8:Ez:354:ARG:HG3	8:Ez:372:ALA:HB3	2.01	0.41
8:Ez:430:ARG:CZ	8:Fa:425:GLN:HG3	2.50	0.41
8:Fa:242:GLN:HE21	8:Fa:269:ALA:HB3	1.86	0.41
8:Fa:322:ALA:O	8:Fa:326:LEU:HG	2.20	0.41
9:Fb:237:VAL:HA	9:Fb:265:ASN:ND2	2.34	0.41
9:Fb:521:GLN:O	9:Fb:521:GLN:CD	2.63	0.41
9:Fc:112:ALA:O	9:Fc:123:MET:HE3	2.20	0.41
9:Fc:224:THR:O	9:Fc:228:THR:HG22	2.20	0.41
9:Fc:594:ILE:HD12	9:Fc:594:ILE:H	1.85	0.41
9:Fc:628:MET:O	9:Fc:632:PHE:HD1	2.02	0.41
9:Fc:735:LEU:O	9:Fc:739:ILE:HB	2.20	0.41
9:Fd:469:PHE:CD1	9:Fd:469:PHE:C	2.99	0.41
9:Fd:751:TYR:C	9:Fd:754:PRO:HD2	2.45	0.41
9:Fe:263:MET:HE3	9:Fe:279:CYS:O	2.20	0.41
9:Ff:130:TRP:CD1	9:Ff:130:TRP:C	2.98	0.41
7:Fi:19:VAL:HG23	7:Fi:20:ILE:HD13	2.02	0.41
7:Fj:30:ILE:HD13	7:Fj:30:ILE:HA	1.89	0.41
5:Ae:254:ILE:HD13	5:Ae:254:ILE:HA	1.85	0.41
6:Af:198:ASP:OD2	6:Af:201:SER:HB3	2.20	0.41
6:Af:218:THR:O	7:Ee:815:VAL:HG21	2.20	0.41
6:Al:226:LEU:CD1	6:Al:239:LEU:HB2	2.51	0.41
6:Al:237:VAL:C	6:Ar:251:ARG:HH22	2.27	0.41
6:Ar:194:TYR:CD2	6:Ar:226:LEU:HD11	2.56	0.41
6:Bd:126:GLN:O	6:Bd:129:LYS:HB2	2.20	0.41
6:Bj:225:ASN:ND2	6:Bp:175:PHE:HD1	2.18	0.41
1:Bk:4:ALA:H	2:Bl:9:ARG:NH2	2.19	0.41
6:Bv:126:GLN:HA	6:Bv:129:LYS:HE2	2.02	0.41
6:Bv:220:LEU:HD12	6:Cb:138:GLU:OE1	2.20	0.41
5:Cg:229:THR:HG23	6:Ch:165:THR:OG1	2.21	0.41
6:Cn:131:LYS:HG3	7:En:812:TRP:CH2	2.56	0.41
2:Cp:5:ILE:HD12	6:Cz:139:TYR:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Cz:181:PHE:HZ	6:Cz:213:LEU:HG	1.86	0.41
5:Dk:269:SER:HA	6:Dl:246:LYS:NZ	2.34	0.41
6:Dl:123:ASN:HB2	6:Dl:126:GLN:HG2	2.02	0.41
6:Dx:177:SER:HB3	6:Dx:215:ILE:HG23	2.03	0.41
7:Ei:781:GLN:HA	7:Ei:784:GLN:HG2	2.03	0.41
7:Eq:775:GLN:HG2	9:Fb:327:THR:OG1	2.20	0.41
7:Es:778:LEU:HA	7:Es:781:GLN:CD	2.46	0.41
8:Ey:342:VAL:HG11	8:Ey:442:ILE:HG13	2.02	0.41
8:Ez:177:ALA:HA	8:Ez:286:GLN:NE2	2.35	0.41
9:Fb:111:LEU:HD13	7:Fh:31:ALA:HB2	2.02	0.41
9:Fb:751:TYR:C	9:Fb:754:PRO:HD2	2.45	0.41
9:Fb:760:ILE:HG13	9:Fb:760:ILE:H	1.73	0.41
9:Fb:939:LYS:HE2	9:Fb:943:TRP:CZ2	2.54	0.41
9:Fc:187:GLY:O	9:Fc:191:MET:SD	2.79	0.41
9:Fc:391:GLU:O	9:Fc:394:GLN:HG3	2.20	0.41
9:Fc:648:PHE:CE1	9:Fc:652:ILE:HG12	2.55	0.41
9:Fd:596:PHE:CE2	9:Fd:598:VAL:HG22	2.55	0.41
9:Fd:736:MET:HA	9:Fd:739:ILE:CG1	2.51	0.41
9:Fe:34:SER:HA	9:Fe:462:ILE:HD13	2.02	0.41
9:Fe:652:ILE:HG13	9:Fe:652:ILE:H	1.63	0.41
9:Fe:729:MET:HA	9:Fe:732:MET:CG	2.47	0.41
9:Fe:763:PHE:CE2	9:Ff:924:ILE:HD11	2.56	0.41
9:Ff:239:PHE:CD1	9:Ff:336:ILE:HG13	2.56	0.41
9:Ff:768:TRP:O	9:Ff:772:VAL:HG23	2.21	0.41
4:Ad:4:ALA:HB3	5:Ae:251:GLN:NE2	2.36	0.41
6:Af:190:PRO:HA	6:Af:211:ASN:HB3	2.02	0.41
6:Af:238:MET:HB3	6:Al:250:TYR:CD2	2.55	0.41
2:Ah:5:ILE:HD13	6:Ar:140:ALA:N	2.36	0.41
3:Ai:1:ARG:HH22	3:Ai:3:SER:HA	1.86	0.41
5:Ak:219:ARG:NH1	5:Ak:233:ARG:HB3	2.35	0.41
6:Al:236:PRO:HG2	6:Ar:251:ARG:NE	2.36	0.41
5:Aw:216:ILE:HD11	6:Bd:148:PRO:HG2	2.01	0.41
6:Ax:176:VAL:CG1	6:Ax:214:MET:HG3	2.48	0.41
6:Bd:132:GLN:O	6:Bd:135:GLU:HG2	2.21	0.41
3:Bg:10:THR:HG22	3:Bg:11:ALA:O	2.20	0.41
6:Bj:181:PHE:HZ	6:Bj:213:LEU:HB2	1.85	0.41
6:Bp:126:GLN:HB3	6:Bv:112:PHE:CZ	2.55	0.41
6:Bp:141:LYS:CD	7:Ek:808:LEU:HD12	2.46	0.41
5:Cg:219:ARG:HD3	6:Cn:148:PRO:O	2.21	0.41
6:Cz:112:PHE:N	6:Cz:115:MET:HE3	2.35	0.41
6:Df:134:TYR:O	6:Df:138:GLU:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Df:179:LEU:HD13	6:Df:239:LEU:HD22	2.02	0.41
6:Dl:149:PRO:HB2	6:Dl:248:VAL:HG12	2.03	0.41
6:Dl:182:LEU:HD12	6:Dl:186:GLY:C	2.45	0.41
6:Dl:238:MET:HG2	6:Dr:250:TYR:HD2	1.86	0.41
2:Dn:2:VAL:HG13	3:Do:1:ARG:HE	1.85	0.41
6:Dx:173:GLN:HB2	6:Dx:220:LEU:HD13	2.03	0.41
7:Ei:793:GLU:O	7:Ei:796:GLN:HG3	2.21	0.41
7:Em:780:LYS:HA	7:Em:783:GLU:OE1	2.21	0.41
7:Eq:794:ILE:HB	7:Eq:795:GLN:NE2	2.36	0.41
8:Ew:298:TYR:CZ	8:Ex:230:PHE:CE2	3.08	0.41
8:Ex:349:TYR:CE1	8:Ex:353:LYS:HD3	2.55	0.41
8:Ex:442:ILE:HA	8:Ex:445:LEU:HD23	2.02	0.41
8:Ey:423:ASN:O	8:Ey:426:MET:SD	2.79	0.41
8:Ez:94:MET:N	8:Ez:94:MET:SD	2.93	0.41
8:Fa:142:ILE:HG13	8:Fa:142:ILE:H	1.75	0.41
8:Fa:353:LYS:O	8:Fa:371:GLN:HB3	2.20	0.41
9:Fb:392:TYR:HB2	9:Fb:576:MET:HE3	2.01	0.41
9:Fb:510:GLN:CG	9:Fb:511:ASP:H	2.33	0.41
9:Fb:520:PHE:CE2	9:Fb:526:LYS:HB2	2.50	0.41
9:Fc:132:ILE:O	9:Fc:136:VAL:HG23	2.21	0.41
9:Fc:461:TRP:CD1	9:Fc:461:TRP:N	2.87	0.41
9:Fc:462:ILE:HA	9:Fc:761:PHE:CZ	2.56	0.41
9:Fc:734:LEU:HB3	9:Fc:738:TRP:CZ2	2.56	0.41
9:Fc:928:LYS:HG3	9:Fc:929:ALA:H	1.84	0.41
9:Fd:427:ASN:HA	9:Fd:430:MET:CE	2.51	0.41
9:Fd:588:LEU:HD11	9:Fd:657:MET:HE1	2.02	0.41
9:Fd:697:ILE:HG22	9:Fd:746:GLY:HA3	2.03	0.41
9:Fd:822:ALA:HB1	9:Fd:930:PHE:CD1	2.55	0.41
9:Fe:143:TRP:CE2	9:Fe:147:LEU:HD11	2.56	0.41
9:Fe:648:PHE:CE1	9:Fe:652:ILE:HG12	2.56	0.41
9:Ff:117:LYS:NZ	9:Ff:119:SER:H	2.19	0.41
9:Ff:612:CYS:HA	9:Ff:626:ARG:HB2	2.02	0.41
9:Ff:648:PHE:O	9:Ff:652:ILE:HG12	2.20	0.41
9:Ff:694:THR:O	9:Ff:698:ASN:HB2	2.19	0.41
6:Af:181:PHE:HD2	6:Af:211:ASN:O	2.04	0.41
6:Af:204:ILE:HD12	6:Af:214:MET:O	2.21	0.41
6:Ax:225:ASN:HD21	6:Bd:176:VAL:H	1.67	0.41
6:Bd:158:VAL:HB	6:Bd:256:VAL:HG13	2.03	0.41
6:Bj:179:LEU:HD12	6:Bj:252:VAL:HB	2.03	0.41
6:Bp:113:LYS:NZ	6:Bp:117:ARG:HG3	2.36	0.41
6:Bp:181:PHE:CE2	6:Bp:213:LEU:HD12	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ca:253:ARG:HB2	5:Ca:263:LYS:HE3	2.03	0.41
6:Cb:121:PRO:HG2	7:El:801:MET:HB3	2.03	0.41
6:Cb:132:GLN:HE21	6:Cb:136:THR:HG23	1.85	0.41
5:Cs:237:LYS:HA	5:Cs:237:LYS:HD3	1.94	0.41
6:Ct:111:ALA:HB2	7:En:794:ILE:CG2	2.50	0.41
6:Ct:171:LEU:HD12	6:Ct:172:SER:N	2.32	0.41
5:Cy:245:LYS:HD3	5:Cy:257:SER:HB3	2.03	0.41
6:Df:141:LYS:HD3	7:Er:812:TRP:HZ3	1.86	0.41
6:Dr:221:TYR:HA	6:Dr:243:PRO:HG2	2.01	0.41
7:Ej:809:VAL:O	7:Ej:813:LYS:HE3	2.19	0.41
8:Ew:106:VAL:HG22	8:Ew:109:ASN:HB3	2.03	0.41
8:Ew:177:ALA:O	8:Ew:181:ILE:HG13	2.20	0.41
8:Ew:191:MET:HE2	8:Ew:195:GLN:HA	2.02	0.41
8:Ey:70:ASN:HB3	8:Ey:73:VAL:HG22	2.01	0.41
8:Ey:385:ASP:HB3	8:Ey:388:ALA:HB2	2.02	0.41
8:Ez:422:ILE:HA	8:Ez:425:GLN:CD	2.45	0.41
9:Fb:132:ILE:HG12	9:Fb:772:VAL:HG23	2.03	0.41
9:Fb:734:LEU:HD11	9:Fb:738:TRP:CZ2	2.56	0.41
9:Fb:768:TRP:HD1	9:Fb:811:ARG:NE	2.19	0.41
9:Fc:392:TYR:OH	9:Fc:585:ILE:HB	2.20	0.41
9:Fc:673:VAL:HA	9:Fc:676:GLN:HE21	1.85	0.41
9:Fc:692:MET:N	9:Fc:692:MET:SD	2.94	0.41
9:Fc:732:MET:O	9:Fc:736:MET:HG2	2.21	0.41
9:Fc:905:TRP:HB3	9:Fc:909:TYR:CZ	2.56	0.41
9:Fd:56:ILE:HG13	9:Fd:57:MET:SD	2.61	0.41
9:Fd:241:LYS:HB3	9:Fd:241:LYS:HZ2	1.86	0.41
9:Fd:769:LEU:HA	9:Fd:772:VAL:HG12	2.02	0.41
9:Fd:797:LYS:HB3	9:Fd:800:PHE:CZ	2.56	0.41
9:Fe:751:TYR:C	9:Fe:754:PRO:HD2	2.45	0.41
9:Fe:917:ILE:HA	9:Fe:920:SER:OG	2.20	0.41
9:Ff:116:PRO:HB2	9:Ff:120:GLY:HA2	2.02	0.41
7:Fg:30:ILE:HD13	7:Fg:30:ILE:HA	1.93	0.41
5:Ae:211:TYR:C	5:Ae:222:LEU:HD13	2.45	0.41
6:Al:157:PHE:CD1	6:Al:157:PHE:N	2.86	0.41
6:Al:166:PRO:HA	6:Al:167:PRO:HD3	1.94	0.41
6:Ar:225:ASN:HB2	6:Ax:250:TYR:HH	1.86	0.41
2:Az:4:MET:HE1	5:Bc:250:LEU:H	1.86	0.41
6:Bd:156:GLN:HE22	6:Bd:158:VAL:CG2	2.33	0.41
6:Bd:169:ILE:HD13	6:Bd:252:VAL:HG21	2.03	0.41
6:Bd:196:LEU:HD22	6:Bd:204:ILE:HG22	2.02	0.41
2:Bf:6:GLY:HA3	6:Bv:125:GLU:CD	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bj:178:SER:HB3	6:Bj:251:ARG:HG2	2.03	0.41
6:Bj:223:TYR:CZ	6:Bp:175:PHE:HZ	2.39	0.41
6:Bp:120:TYR:C	6:Bp:122:LEU:H	2.29	0.41
6:Bp:221:TYR:HA	6:Bp:243:PRO:HG2	2.03	0.41
1:Bq:1:CYS:HA	4:Bt:2:PHE:CD2	2.56	0.41
5:Bu:214:ALA:HB3	5:Bu:221:TRP:CE3	2.56	0.41
6:Bv:106:VAL:HA	6:Bv:109:LYS:NZ	2.36	0.41
6:Bv:157:PHE:C	6:Bv:157:PHE:CD2	2.99	0.41
5:Ca:221:TRP:CZ3	6:Cb:242:ILE:HG21	2.56	0.41
6:Cb:162:PRO:HA	6:Ch:251:ARG:HH22	1.85	0.41
6:Cb:173:GLN:HA	6:Cb:217:ALA:O	2.21	0.41
2:Cd:4:MET:HE1	5:Cg:250:LEU:H	1.86	0.41
6:Ch:181:PHE:HA	6:Ch:254:LEU:HD11	2.02	0.41
1:Ci:3:ASP:OD1	3:Ck:16:ASP:HB2	2.21	0.41
6:Cn:130:LEU:HA	6:Cn:133:ILE:HG12	2.03	0.41
1:Co:3:ASP:OD2	3:Cq:14:TYR:HB3	2.21	0.41
6:Ct:108:ASP:CA	7:En:797:ARG:HH21	2.34	0.41
6:Ct:170:ARG:HA	6:Ct:245:GLN:OE1	2.21	0.41
6:Ct:229:ARG:NH1	6:Ct:230:LEU:H	2.18	0.41
3:Cw:4:ILE:HD11	6:Df:146:GLY:H	1.85	0.41
5:Cy:208:ILE:HD11	5:Cy:225:SER:H	1.85	0.41
5:Cy:212:ILE:HG12	5:Cy:254:ILE:HD11	2.03	0.41
6:Cz:158:VAL:HG13	6:Cz:167:PRO:HG2	2.03	0.41
6:Df:220:LEU:HD12	6:Dl:138:GLU:CD	2.46	0.41
5:Dk:268:ASP:HA	6:Dl:150:LYS:HD2	2.03	0.41
6:Dr:110:LYS:HD3	6:Dr:110:LYS:C	2.46	0.41
6:Dr:125:GLU:O	6:Dr:128:VAL:HG22	2.20	0.41
6:Dr:156:GLN:O	6:Dr:254:LEU:HA	2.20	0.41
6:Dr:206:TRP:CB	6:Dr:213:LEU:HD23	2.50	0.41
6:Dx:236:PRO:HG2	6:Dx:238:MET:SD	2.61	0.41
3:Ea:3:SER:OG	3:Ea:9:TYR:HD2	2.04	0.41
5:Ec:238:ILE:HD11	5:Ec:244:VAL:CG2	2.51	0.41
6:Ed:194:TYR:CD2	6:Ed:194:TYR:C	2.99	0.41
7:Ej:781:GLN:O	7:Ej:785:LEU:HG	2.21	0.41
7:El:793:GLU:O	7:El:797:ARG:HG2	2.20	0.41
7:Em:782:ASN:HA	7:Em:785:LEU:CD2	2.50	0.41
7:Eq:808:LEU:HA	7:Eq:811:ASP:OD1	2.21	0.41
7:Es:806:THR:O	7:Es:810:GLN:HG3	2.21	0.41
8:Ew:45:ASN:O	8:Ew:49:TYR:HD1	2.04	0.41
8:Ew:336:TYR:CD1	8:Fa:453:PRO:HD3	2.55	0.41
8:Ew:382:ARG:HB2	8:Fa:424:TYR:OH	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ey:142:ILE:HD11	8:Ey:281:ARG:NH1	2.35	0.41
8:Ey:211:MET:O	8:Ey:215:ILE:HG12	2.21	0.41
8:Ey:230:PHE:HA	8:Ey:235:TYR:CD2	2.56	0.41
8:Ey:277:LEU:HD13	8:Ey:281:ARG:CZ	2.50	0.41
8:Ey:298:TYR:CE2	8:Ez:230:PHE:HE1	2.39	0.41
8:Ey:391:THR:HB	8:Ey:394:GLN:CD	2.46	0.41
8:Ey:415:ILE:HG13	8:Ey:415:ILE:H	1.76	0.41
8:Ey:418:LEU:HD12	8:Ey:419:LEU:N	2.36	0.41
8:Ez:415:ILE:HA	8:Ez:418:LEU:CG	2.51	0.41
8:Fa:77:VAL:HG12	8:Fa:378:MET:CE	2.50	0.41
8:Fa:206:TYR:N	8:Fa:209:LEU:HD12	2.27	0.41
8:Fa:448:LEU:HA	8:Fa:451:ALA:HB3	2.02	0.41
9:Fb:24:LEU:HD23	9:Fb:24:LEU:HA	1.93	0.41
9:Fb:212:PRO:HA	9:Fb:215:GLY:H	1.85	0.41
9:Fb:689:LEU:HD13	9:Fb:922:TYR:CE2	2.56	0.41
9:Fb:837:PHE:O	9:Fb:841:ILE:HG12	2.21	0.41
9:Fc:314:GLY:HA3	9:Fc:439:GLN:O	2.21	0.41
9:Fc:338:GLN:HA	9:Fc:341:VAL:HG12	2.03	0.41
9:Fc:766:PHE:CG	9:Fd:928:LYS:NZ	2.83	0.41
9:Fd:129:MET:HA	9:Fd:132:ILE:HG12	2.03	0.41
9:Fd:668:LYS:HB3	9:Fd:668:LYS:HE2	1.84	0.41
9:Fd:813:SER:O	9:Fd:816:ILE:HG22	2.21	0.41
9:Fe:24:LEU:N	7:Fk:36:PHE:CE2	2.89	0.41
9:Fe:766:PHE:CD1	9:Fe:766:PHE:C	2.98	0.41
9:Fe:790:GLU:H	9:Fe:790:GLU:HG3	1.67	0.41
9:Ff:65:ASN:HA	9:Ff:68:VAL:HG22	2.03	0.41
9:Ff:203:ASP:O	9:Ff:206:LEU:HD12	2.21	0.41
9:Ff:236:THR:HG21	9:Ff:266:PHE:CE1	2.56	0.41
9:Ff:249:LYS:HD2	9:Ff:249:LYS:HA	1.94	0.41
9:Ff:296:SER:HA	9:Ff:302:VAL:HG13	2.02	0.41
9:Ff:573:ASN:HA	9:Ff:576:MET:SD	2.60	0.41
9:Ff:701:GLY:O	9:Ff:705:LEU:HD23	2.21	0.41
7:Fk:32:VAL:HG13	7:Fk:36:PHE:HE1	1.79	0.41
5:Ae:219:ARG:NH2	6:Al:150:LYS:HD2	2.36	0.41
3:Au:6:GLY:HA2	6:Bj:132:GLN:NE2	2.36	0.41
5:Aw:222:LEU:HD11	5:Aw:262:ILE:CG2	2.49	0.41
6:Bd:203:ASN:O	6:Bd:215:ILE:HD12	2.21	0.41
5:Bi:268:ASP:O	6:Bj:247:ALA:HB2	2.21	0.41
5:Bo:237:LYS:HD3	5:Bo:237:LYS:HA	1.86	0.41
6:Bp:199:PRO:HD2	7:El:816:GLU:HG2	2.02	0.41
6:Cb:115:MET:SD	7:Ek:802:LEU:HD12	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ch:183:ASP:HB3	6:Ch:189:TRP:CE3	2.56	0.41
6:Ch:229:ARG:HG2	6:Ch:236:PRO:HB3	2.02	0.41
5:Cm:213:GLN:HB3	5:Cm:221:TRP:O	2.21	0.41
5:Cs:252:GLY:O	5:Cs:253:ARG:HD2	2.21	0.41
5:Dk:210:TYR:CE2	5:Dk:238:ILE:HD11	2.56	0.41
5:Dk:254:ILE:HD13	5:Dk:254:ILE:HA	1.95	0.41
5:Dq:210:TYR:HD2	5:Dq:224:GLY:HA2	1.86	0.41
3:Ea:1:ARG:HG2	3:Ea:2:VAL:N	2.35	0.41
6:Ed:135:GLU:HA	6:Ed:138:GLU:OE1	2.20	0.41
7:Eo:814:GLN:HE22	7:Eo:816:GLU:HB3	1.86	0.41
7:Et:781:GLN:C	7:Et:781:GLN:CD	2.89	0.41
8:Ew:119:THR:OG1	8:Ew:355:LEU:HD12	2.20	0.41
8:Ex:436:ILE:HD12	8:Ex:436:ILE:H	1.86	0.41
8:Ex:438:LEU:HG	8:Ex:442:ILE:HD11	2.03	0.41
8:Ey:175:SER:HB3	8:Ez:244:ASN:ND2	2.36	0.41
8:Fa:43:LEU:O	8:Fa:46:LEU:HG	2.21	0.41
8:Fa:248:LEU:HD23	8:Fa:279:PHE:CD2	2.47	0.41
9:Fb:779:ALA:O	9:Fb:782:VAL:HG22	2.21	0.41
9:Fb:831:TRP:CE3	9:Ff:37:PHE:HE2	2.39	0.41
9:Fc:596:PHE:H	9:Fc:597:LYS:HZ3	1.69	0.41
9:Fc:722:ILE:O	9:Fc:725:PHE:HB3	2.21	0.41
9:Fd:189:ILE:CD1	9:Fd:567:VAL:HG11	2.51	0.41
9:Fd:586:LYS:HD3	9:Fd:586:LYS:O	2.20	0.41
9:Fd:747:PHE:HA	9:Fd:751:TYR:HD1	1.86	0.41
9:Fd:920:SER:O	9:Fd:923:LEU:HB3	2.20	0.41
9:Fd:923:LEU:HD23	9:Fd:924:ILE:N	2.36	0.41
9:Fd:929:ALA:O	9:Fd:932:LEU:HD13	2.22	0.41
9:Fe:751:TYR:HB3	9:Ff:913:PHE:CD1	2.56	0.41
9:Fe:913:PHE:HA	9:Fe:916:LEU:HD23	2.03	0.41
9:Ff:338:GLN:NE2	9:Ff:429:ILE:HD12	2.36	0.41
9:Ff:635:TYR:O	9:Ff:639:TYR:HB3	2.22	0.41
9:Ff:801:ALA:O	9:Ff:804:ILE:HG12	2.21	0.41
7:Fj:38:LYS:O	7:Fj:38:LYS:HD2	2.21	0.41
6:Al:106:VAL:HG23	6:Al:110:LYS:HZ2	1.86	0.40
6:Al:132:GLN:O	6:Al:136:THR:HG23	2.21	0.40
5:Aq:222:LEU:HD23	5:Aq:230:LEU:O	2.21	0.40
6:Ar:242:ILE:HG13	6:Ar:245:GLN:HG2	2.03	0.40
6:Bd:113:LYS:HD3	6:Bd:113:LYS:HA	1.66	0.40
5:Bo:262:ILE:C	5:Bo:263:LYS:HD2	2.46	0.40
6:Bp:205:GLN:HB2	6:Bp:214:MET:SD	2.61	0.40
5:Bu:247:ILE:HA	5:Bu:254:ILE:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ca:262:ILE:HD13	5:Ca:262:ILE:HA	1.89	0.40
6:Cb:114:ASP:O	6:Cb:118:ASN:OD1	2.40	0.40
5:Cg:212:ILE:HG12	5:Cg:254:ILE:HD11	2.02	0.40
5:Cy:221:TRP:HH2	6:Cz:165:THR:HB	1.85	0.40
6:Cz:190:PRO:O	6:Cz:231:ARG:HG2	2.21	0.40
5:Dw:267:GLU:OE2	5:Dw:267:GLU:N	2.50	0.40
6:Dx:189:TRP:CZ2	6:Dx:260:GLY:HA2	2.57	0.40
5:Ec:263:LYS:HE2	5:Ec:263:LYS:HB2	1.89	0.40
6:Ed:173:GLN:HG3	6:Ed:220:LEU:HB3	2.02	0.40
6:Ed:229:ARG:HB3	6:Ed:236:PRO:HB3	2.03	0.40
7:Et:782:ASN:O	7:Et:785:LEU:HD12	2.20	0.40
8:Ew:426:MET:HE2	8:Ew:426:MET:C	2.46	0.40
8:Ew:427:TYR:CA	8:Ew:430:ARG:HG3	2.50	0.40
8:Ex:69:PHE:HZ	8:Ex:406:ALA:HB2	1.85	0.40
8:Ex:96:GLN:HA	8:Ex:99:MET:SD	2.61	0.40
8:Ex:304:GLN:OE1	8:Ex:319:GLN:HA	2.21	0.40
8:Ex:359:MET:SD	8:Ex:369:THR:HG22	2.61	0.40
8:Ex:426:MET:O	8:Ex:430:ARG:HG3	2.21	0.40
8:Ey:217:THR:H	8:Ey:265:SER:HB3	1.85	0.40
8:Ey:414:GLU:HA	8:Ey:417:ILE:HG12	2.02	0.40
8:Ez:179:PHE:CZ	8:Fa:236:ASN:HB2	2.56	0.40
8:Fa:93:ALA:HA	8:Fa:99:MET:HG2	2.02	0.40
8:Fa:378:MET:N	8:Fa:378:MET:SD	2.94	0.40
9:Fb:28:PRO:HB2	9:Fb:32:ASP:OD2	2.20	0.40
9:Fb:66:SER:OG	7:Fh:38:LYS:HE2	2.21	0.40
9:Fb:82:VAL:O	9:Fb:85:MET:HG3	2.21	0.40
9:Fb:239:PHE:CE2	9:Fb:340:TYR:HB2	2.55	0.40
9:Fb:617:ILE:O	9:Fb:618:LEU:C	2.65	0.40
9:Fb:706:THR:O	9:Fb:710:MET:HG3	2.22	0.40
9:Fb:723:PHE:O	9:Fb:726:ALA:HB3	2.21	0.40
9:Fb:741:THR:HG22	9:Fb:745:ILE:HD11	2.03	0.40
9:Fc:920:SER:O	9:Fc:923:LEU:HB3	2.20	0.40
9:Fd:192:LEU:CB	9:Fd:351:VAL:HG21	2.48	0.40
9:Fd:218:PRO:HB2	9:Fd:223:ASN:CG	2.46	0.40
9:Fd:643:PHE:CE2	9:Fd:647:ILE:HD11	2.55	0.40
9:Fd:760:ILE:HD13	9:Fd:763:PHE:HE2	1.85	0.40
9:Fe:113:LEU:HD11	9:Fe:124:MET:HB2	2.02	0.40
9:Fe:685:PRO:O	9:Fe:689:LEU:HG	2.21	0.40
9:Fe:732:MET:N	9:Fe:733:PRO:HD2	2.36	0.40
9:Ff:94:LEU:HD21	7:Fi:21:ILE:HD11	2.03	0.40
9:Ff:127:PHE:O	9:Ff:131:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ff:290:LEU:HD11	9:Ff:437:ILE:HD12	2.03	0.40
9:Ff:810:LEU:O	9:Ff:814:LEU:HG	2.20	0.40
6:Af:230:LEU:HB3	6:Af:233:LEU:HD13	2.03	0.40
5:Ak:237:LYS:HA	5:Ak:237:LYS:HD3	1.89	0.40
5:Ak:251:GLN:HB3	5:Ak:253:ARG:NH1	2.36	0.40
6:Ar:108:ASP:OD1	6:Ar:108:ASP:C	2.65	0.40
6:Ar:122:LEU:HD22	7:Ef:801:MET:CE	2.51	0.40
3:Ba:4:ILE:HD12	6:Bp:132:GLN:HG3	2.04	0.40
6:Bd:130:LEU:HA	6:Bd:133:ILE:HD11	2.03	0.40
6:Bv:106:VAL:HG23	6:Bv:109:LYS:HD2	2.03	0.40
6:Ch:237:VAL:HG22	6:Ch:239:LEU:HD11	2.04	0.40
6:Cz:115:MET:HE1	7:Eo:801:MET:HG3	2.03	0.40
6:Df:108:ASP:HA	7:Ep:797:ARG:CZ	2.51	0.40
6:Df:169:ILE:HD13	6:Df:241:LEU:CD2	2.50	0.40
5:Dw:241:TYR:CE2	5:Dw:262:ILE:HD11	2.56	0.40
6:Dx:202:PHE:CG	6:Dx:241:LEU:HD12	2.56	0.40
6:Dx:207:ASP:OD2	6:Dx:210:SER:HB3	2.22	0.40
7:Es:789:LYS:HD2	7:Es:789:LYS:N	2.36	0.40
8:Ew:307:ALA:HB1	8:Ew:314:TYR:CE1	2.56	0.40
8:Ew:348:TYR:CD1	8:Ew:351:LEU:HD23	2.55	0.40
8:Ex:192:ASP:OD2	8:Ex:196:LYS:HG2	2.22	0.40
8:Ey:59:LYS:HG3	8:Ez:49:TYR:OH	2.22	0.40
8:Ey:349:TYR:CZ	8:Ey:353:LYS:HE3	2.56	0.40
8:Ez:277:LEU:O	8:Ez:280:ILE:HG22	2.21	0.40
8:Fa:253:LEU:C	8:Fa:254:MET:HE2	2.47	0.40
9:Fb:239:PHE:CD1	9:Fb:261:LEU:HG	2.55	0.40
9:Fb:709:ASN:HD21	9:Fc:597:LYS:N	2.20	0.40
9:Fb:816:ILE:O	9:Fb:820:ILE:HG22	2.20	0.40
9:Fe:196:LYS:HE2	9:Fe:196:LYS:HB2	1.79	0.40
9:Fe:373:ILE:HD12	9:Fe:373:ILE:N	2.36	0.40
9:Fe:470:ASP:O	9:Fe:473:LYS:HB2	2.20	0.40
9:Fe:599:ASP:C	9:Fe:599:ASP:OD1	2.64	0.40
9:Ff:27:ALA:HA	9:Ff:28:PRO:HD2	1.97	0.40
9:Ff:79:THR:HG21	9:Ff:788:HIS:CE1	2.57	0.40
9:Ff:734:LEU:HD11	9:Ff:738:TRP:NE1	2.36	0.40
7:Fg:29:ILE:HD12	7:Fg:29:ILE:HA	1.91	0.40
7:Fg:34:ILE:HG13	7:Fg:34:ILE:H	1.70	0.40
7:Fh:29:ILE:O	7:Fh:32:VAL:HG22	2.21	0.40
7:Fk:30:ILE:HA	7:Fk:33:VAL:HG22	2.03	0.40
5:Ae:229:THR:O	5:Ae:230:LEU:HD23	2.20	0.40
6:Af:181:PHE:CD2	6:Af:181:PHE:N	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Af:236:PRO:HG2	6:Al:251:ARG:CZ	2.51	0.40
6:Ar:121:PRO:CB	7:Ef:801:MET:HE1	2.50	0.40
6:Ar:222:ASN:HB3	6:Ax:142:ALA:HB1	2.04	0.40
2:At:5:ILE:HD11	6:Bd:136:THR:O	2.21	0.40
5:Bc:241:TYR:HB3	5:Bc:256:THR:HG21	2.03	0.40
6:Bd:191:ILE:HD12	6:Bd:206:TRP:NE1	2.36	0.40
6:Bj:181:PHE:CD2	6:Bj:181:PHE:N	2.89	0.40
6:Bj:181:PHE:CE2	6:Bj:191:ILE:HD11	2.57	0.40
6:Bj:221:TYR:HE2	6:Bp:142:ALA:HB3	1.87	0.40
1:Bq:11:TYR:HD2	3:Bs:9:TYR:HB3	1.86	0.40
6:Bv:111:ALA:HB2	7:Ej:794:ILE:HG23	2.04	0.40
6:Bv:191:ILE:HB	6:Bv:206:TRP:CZ2	2.57	0.40
6:Cb:221:TYR:HA	6:Cb:243:PRO:HG2	2.03	0.40
6:Cz:108:ASP:HA	7:Eo:797:ARG:NH1	2.37	0.40
2:Dn:2:VAL:HA	3:Do:1:ARG:NE	2.31	0.40
6:Dx:108:ASP:HA	7:Es:797:ARG:HH12	1.85	0.40
6:Dx:167:PRO:HD2	6:Dx:238:MET:O	2.21	0.40
6:Ed:242:ILE:N	6:Ed:242:ILE:HD12	2.36	0.40
7:El:789:LYS:HD2	9:Fd:267:ASP:HB3	2.03	0.40
7:Ej:808:LEU:O	7:Ej:812:TRP:CD1	2.74	0.40
7:El:792:GLN:O	7:El:795:GLN:HG2	2.21	0.40
7:El:806:THR:O	7:El:810:GLN:HG3	2.21	0.40
7:Ev:792:GLN:H	7:Ev:792:GLN:CD	2.29	0.40
8:Ew:359:MET:HE3	8:Ew:367:ASN:O	2.22	0.40
8:Ew:368:ILE:H	8:Fa:105:LYS:NZ	2.19	0.40
8:Ew:384:PHE:N	8:Fa:82:TYR:CE2	2.90	0.40
8:Ex:408:PRO:HA	8:Ex:411:VAL:HG22	2.03	0.40
8:Ey:349:TYR:HD1	8:Ey:435:ARG:CZ	2.34	0.40
8:Ey:410:THR:O	8:Ey:413:LYS:HB2	2.21	0.40
8:Ey:412:GLN:HG3	8:Ez:411:VAL:HG21	2.03	0.40
8:Ez:43:LEU:HA	8:Ez:46:LEU:HG	2.03	0.40
8:Ez:43:LEU:HD12	8:Ez:44:THR:N	2.35	0.40
8:Ez:175:SER:O	8:Fa:240:ILE:HD11	2.21	0.40
8:Ez:353:LYS:HD2	8:Ez:353:LYS:HA	1.67	0.40
8:Ez:456:ASP:OD1	8:Ez:456:ASP:C	2.64	0.40
8:Fa:68:LEU:HD21	8:Fa:71:SER:HB3	2.03	0.40
9:Fb:44:VAL:N	9:Fb:55:GLN:HE22	2.17	0.40
9:Fb:167:LEU:O	9:Fb:170:ALA:HB3	2.21	0.40
9:Fb:222:MET:HE1	9:Fb:519:TRP:CD1	2.56	0.40
9:Fb:337:GLN:O	9:Fb:341:VAL:HG12	2.22	0.40
9:Fb:694:THR:O	9:Fb:697:ILE:HG12	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Fd:77:MET:SD	9:Fd:81:MET:HE2	2.62	0.40
9:Fd:635:TYR:CE1	9:Fe:610:PHE:HD2	2.39	0.40
9:Fd:715:SER:HB2	9:Fd:724:ILE:HG13	2.03	0.40
9:Fe:619:PHE:CD1	9:Fe:619:PHE:N	2.88	0.40
9:Fe:669:ASP:HA	9:Fe:672:ILE:CG1	2.52	0.40
9:Fe:905:TRP:HA	9:Fe:908:VAL:HG23	2.03	0.40
9:Ff:537:VAL:HA	9:Ff:538:PRO:HA	1.90	0.40
9:Ff:594:ILE:HD12	9:Ff:594:ILE:H	1.86	0.40
9:Ff:684:ASN:HB3	9:Ff:687:VAL:CG2	2.50	0.40
7:Fg:29:ILE:O	7:Fg:33:VAL:HG23	2.22	0.40
5:Ae:219:ARG:HG2	6:Al:148:PRO:CD	2.49	0.40
6:Af:170:ARG:HG2	6:Af:249:ASP:CG	2.46	0.40
6:Al:207:ASP:OD2	6:Al:210:SER:HB3	2.21	0.40
6:Ar:126:GLN:CA	6:Ar:129:LYS:HZ2	2.27	0.40
6:Ar:223:TYR:CE1	6:Ax:175:PHE:HE2	2.39	0.40
1:As:1:CYS:SG	4:Av:2:PHE:HB3	2.62	0.40
5:Bc:264:PHE:CD2	6:Bd:246:LYS:HB2	2.57	0.40
6:Bd:149:PRO:HA	6:Bd:246:LYS:O	2.20	0.40
6:Bd:233:LEU:HD22	6:Bd:235:THR:O	2.21	0.40
6:Bj:118:ASN:O	6:Bj:121:PRO:HD3	2.20	0.40
6:Bp:115:MET:HE3	7:Ei:802:LEU:HD13	2.04	0.40
5:Ca:215:VAL:HG22	5:Ca:249:SER:HB3	2.04	0.40
6:Cb:141:LYS:NZ	6:Ch:127:VAL:HG13	2.29	0.40
1:Cc:3:ASP:CG	3:Ce:14:TYR:HB3	2.47	0.40
6:Ch:222:ASN:OD1	6:Ch:222:ASN:N	2.54	0.40
6:Ct:208:LYS:HE2	7:Eq:823:GLY:HA2	2.03	0.40
6:Cz:166:PRO:HA	6:Cz:167:PRO:HD3	1.97	0.40
6:Cz:170:ARG:HG3	6:Cz:247:ALA:O	2.22	0.40
6:Df:183:ASP:HB3	6:Df:189:TRP:CE3	2.56	0.40
6:Df:190:PRO:HG2	6:Df:231:ARG:HG3	2.03	0.40
1:Dg:1:CYS:SG	4:Dj:2:PHE:HB3	2.61	0.40
6:Dl:189:TRP:CD2	6:Dl:230:LEU:HD13	2.57	0.40
6:Dl:209:THR:HG22	7:Et:824:THR:HG21	2.04	0.40
8:Ew:426:MET:O	8:Ew:430:ARG:HG3	2.20	0.40
8:Ew:434:GLU:HG2	8:Ex:350:ILE:HD12	2.02	0.40
8:Ex:87:GLY:HA3	8:Ex:118:THR:HG22	2.03	0.40
8:Ex:144:GLN:HB2	8:Ex:179:PHE:CE2	2.57	0.40
8:Ex:326:LEU:N	8:Ex:326:LEU:HD23	2.37	0.40
8:Ex:376:PHE:CZ	8:Ex:380:THR:HG21	2.55	0.40
8:Ey:430:ARG:NH2	8:Ez:425:GLN:HA	2.36	0.40
8:Ez:327:SER:OG	8:Fa:211:MET:HE1	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ez:354:ARG:HA	8:Ez:370:SER:HB2	2.02	0.40
8:Ez:411:VAL:O	8:Ez:415:ILE:HG12	2.21	0.40
8:Ez:445:LEU:HG	8:Fa:284:SER:HA	2.03	0.40
8:Fa:194:GLU:HG2	8:Fa:196:LYS:NZ	2.36	0.40
9:Fb:49:LEU:HD12	9:Fb:50:HIS:N	2.36	0.40
9:Fb:128:PHE:N	9:Fb:128:PHE:CD1	2.88	0.40
9:Fb:466:SER:HB2	9:Fc:839:HIS:ND1	2.36	0.40
9:Fb:618:LEU:HG	9:Fc:618:LEU:HD11	2.03	0.40
9:Fb:667:MET:HA	9:Fb:670:ILE:HG22	2.02	0.40
9:Fb:905:TRP:CD1	9:Ff:698:ASN:HA	2.54	0.40
9:Fb:905:TRP:NE1	9:Ff:702:THR:HG22	2.29	0.40
9:Fc:148:SER:HB2	9:Fc:152:ARG:HH12	1.87	0.40
9:Fc:610:PHE:CD1	9:Fc:629:GLY:HA3	2.56	0.40
9:Fd:28:PRO:HB2	9:Fd:32:ASP:OD2	2.22	0.40
9:Fd:81:MET:O	9:Fd:84:THR:HG22	2.22	0.40
9:Fd:332:ARG:NH2	9:Fd:489:THR:HA	2.36	0.40
9:Fd:597:LYS:HE2	9:Fd:597:LYS:N	2.35	0.40
9:Fe:64:PHE:HB2	9:Ff:817:ILE:HD11	2.04	0.40
9:Fe:383:LYS:HE2	9:Fe:383:LYS:HB3	1.91	0.40
9:Fe:727:LEU:HD23	9:Fe:728:ILE:N	2.36	0.40
9:Ff:224:THR:HA	9:Ff:227:ARG:NH1	2.36	0.40
9:Ff:275:LEU:O	9:Ff:278:ILE:HG12	2.20	0.40
9:Ff:378:PHE:CD1	9:Ff:414:PHE:HE2	2.40	0.40
9:Ff:614:ARG:HA	9:Ff:623:CYS:HA	2.03	0.40
9:Ff:810:LEU:O	9:Ff:811:ARG:C	2.65	0.40
5:Ae:219:ARG:HD3	6:Al:148:PRO:O	2.22	0.40
5:Ae:245:LYS:HZ1	5:Ae:255:LEU:HD12	1.87	0.40
5:Ak:216:ILE:HG12	5:Ak:221:TRP:CH2	2.56	0.40
5:Ak:246:LEU:HD21	5:Ak:248:ASP:HB2	2.02	0.40
5:Ak:253:ARG:HB2	5:Ak:253:ARG:HH11	1.87	0.40
6:Al:119:LEU:HD21	7:Ev:805:ALA:HB3	2.03	0.40
6:Al:159:ASN:OD1	6:Al:164:SER:HB3	2.20	0.40
1:As:13:LYS:HA	1:As:13:LYS:HD2	1.84	0.40
6:Bd:168:VAL:HA	6:Bd:240:THR:HG23	2.03	0.40
6:Bj:145:PRO:HB3	6:Bp:132:GLN:OE1	2.21	0.40
5:Bo:256:THR:HG22	5:Bo:260:GLN:O	2.22	0.40
5:Bo:261:VAL:HG12	5:Bo:263:LYS:HZ3	1.86	0.40
5:Cg:219:ARG:HH22	6:Cn:150:LYS:HD2	1.87	0.40
6:Cn:117:ARG:HD2	6:Cn:117:ARG:O	2.21	0.40
6:Ct:129:LYS:O	6:Ct:133:ILE:HG22	2.22	0.40
6:Df:195:ASP:O	6:Df:226:LEU:HD12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ed:126:GLN:HA	6:Ed:129:LYS:CG	2.52	0.40
8:Ez:415:ILE:HA	8:Ez:418:LEU:HD21	2.02	0.40
9:Fb:672:ILE:HA	9:Fb:675:VAL:HG12	2.02	0.40
9:Fb:909:TYR:O	9:Fb:910:ALA:C	2.65	0.40
9:Fc:69:LEU:HD11	9:Fc:114:LEU:O	2.21	0.40
9:Fc:579:LEU:HD23	9:Fc:579:LEU:HA	1.67	0.40
9:Fd:105:LEU:HA	9:Fd:108:THR:HG22	2.04	0.40
9:Fd:936:LEU:HA	9:Fd:939:LYS:CE	2.51	0.40
9:Fe:602:LEU:HD22	9:Fe:603:TYR:CE2	2.56	0.40
9:Fe:618:LEU:C	9:Fe:619:PHE:HD1	2.30	0.40
9:Ff:131:VAL:HG12	9:Ff:809:PHE:HB2	2.04	0.40
9:Ff:399:TRP:CE3	9:Ff:416:GLY:HA3	2.57	0.40
9:Ff:905:TRP:O	9:Ff:909:TYR:CD1	2.75	0.40
7:Fg:17:THR:O	7:Fg:20:ILE:HG13	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Aa	14/16 (88%)	14 (100%)	0	0	100	100
1	Ag	14/16 (88%)	14 (100%)	0	0	100	100
1	Am	14/16 (88%)	14 (100%)	0	0	100	100
1	As	14/16 (88%)	14 (100%)	0	0	100	100
1	Ay	14/16 (88%)	14 (100%)	0	0	100	100
1	Be	14/16 (88%)	14 (100%)	0	0	100	100
1	Bk	14/16 (88%)	14 (100%)	0	0	100	100
1	Bq	14/16 (88%)	14 (100%)	0	0	100	100
1	Bw	14/16 (88%)	14 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Cc	14/16 (88%)	14 (100%)	0	0	100	100
1	Ci	14/16 (88%)	14 (100%)	0	0	100	100
1	Co	14/16 (88%)	14 (100%)	0	0	100	100
1	Cu	14/16 (88%)	14 (100%)	0	0	100	100
1	Da	14/16 (88%)	14 (100%)	0	0	100	100
1	Dg	14/16 (88%)	14 (100%)	0	0	100	100
1	Dm	14/16 (88%)	14 (100%)	0	0	100	100
1	Ds	14/16 (88%)	14 (100%)	0	0	100	100
1	Dy	14/16 (88%)	14 (100%)	0	0	100	100
2	Ab	7/9 (78%)	7 (100%)	0	0	100	100
2	Ah	7/9 (78%)	7 (100%)	0	0	100	100
2	An	7/9 (78%)	7 (100%)	0	0	100	100
2	At	7/9 (78%)	7 (100%)	0	0	100	100
2	Az	7/9 (78%)	7 (100%)	0	0	100	100
2	Bf	7/9 (78%)	7 (100%)	0	0	100	100
2	Bl	7/9 (78%)	7 (100%)	0	0	100	100
2	Br	7/9 (78%)	7 (100%)	0	0	100	100
2	Bx	7/9 (78%)	7 (100%)	0	0	100	100
2	Cd	7/9 (78%)	7 (100%)	0	0	100	100
2	Cj	7/9 (78%)	7 (100%)	0	0	100	100
2	Cp	7/9 (78%)	7 (100%)	0	0	100	100
2	Cv	7/9 (78%)	7 (100%)	0	0	100	100
2	Db	7/9 (78%)	6 (86%)	1 (14%)	0	100	100
2	Dh	7/9 (78%)	7 (100%)	0	0	100	100
2	Dn	7/9 (78%)	7 (100%)	0	0	100	100
2	Dt	7/9 (78%)	7 (100%)	0	0	100	100
2	Dz	7/9 (78%)	7 (100%)	0	0	100	100
3	Ac	14/16 (88%)	12 (86%)	2 (14%)	0	100	100
3	Ai	14/16 (88%)	12 (86%)	2 (14%)	0	100	100
3	Ao	14/16 (88%)	12 (86%)	2 (14%)	0	100	100
3	Au	14/16 (88%)	12 (86%)	2 (14%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	Ba	14/16 (88%)	12 (86%)	2 (14%)	0	100	100
3	Bg	14/16 (88%)	13 (93%)	1 (7%)	0	100	100
3	Bm	14/16 (88%)	12 (86%)	2 (14%)	0	100	100
3	Bs	14/16 (88%)	14 (100%)	0	0	100	100
3	By	14/16 (88%)	13 (93%)	1 (7%)	0	100	100
3	Ce	14/16 (88%)	12 (86%)	2 (14%)	0	100	100
3	Ck	14/16 (88%)	12 (86%)	2 (14%)	0	100	100
3	Cq	14/16 (88%)	12 (86%)	2 (14%)	0	100	100
3	Cw	14/16 (88%)	13 (93%)	1 (7%)	0	100	100
3	Dc	14/16 (88%)	13 (93%)	1 (7%)	0	100	100
3	Di	14/16 (88%)	12 (86%)	2 (14%)	0	100	100
3	Do	14/16 (88%)	13 (93%)	1 (7%)	0	100	100
3	Du	14/16 (88%)	13 (93%)	1 (7%)	0	100	100
3	Ea	14/16 (88%)	13 (93%)	1 (7%)	0	100	100
4	Ad	3/5 (60%)	3 (100%)	0	0	100	100
4	Aj	3/5 (60%)	3 (100%)	0	0	100	100
4	Ap	3/5 (60%)	3 (100%)	0	0	100	100
4	Av	3/5 (60%)	3 (100%)	0	0	100	100
4	Bb	3/5 (60%)	3 (100%)	0	0	100	100
4	Bh	3/5 (60%)	3 (100%)	0	0	100	100
4	Bn	3/5 (60%)	3 (100%)	0	0	100	100
4	Bt	3/5 (60%)	3 (100%)	0	0	100	100
4	Bz	3/5 (60%)	3 (100%)	0	0	100	100
4	Cf	3/5 (60%)	3 (100%)	0	0	100	100
4	Cl	3/5 (60%)	3 (100%)	0	0	100	100
4	Cr	3/5 (60%)	3 (100%)	0	0	100	100
4	Cx	3/5 (60%)	3 (100%)	0	0	100	100
4	Dd	3/5 (60%)	3 (100%)	0	0	100	100
4	Dj	3/5 (60%)	3 (100%)	0	0	100	100
4	Dp	3/5 (60%)	3 (100%)	0	0	100	100
4	Dv	3/5 (60%)	3 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	Eb	3/5 (60%)	3 (100%)	0	0	100	100
5	Ae	61/269 (23%)	59 (97%)	2 (3%)	0	100	100
5	Ak	61/269 (23%)	60 (98%)	1 (2%)	0	100	100
5	Aq	61/269 (23%)	55 (90%)	6 (10%)	0	100	100
5	Aw	61/269 (23%)	56 (92%)	5 (8%)	0	100	100
5	Bc	61/269 (23%)	55 (90%)	6 (10%)	0	100	100
5	Bi	61/269 (23%)	58 (95%)	3 (5%)	0	100	100
5	Bo	61/269 (23%)	58 (95%)	3 (5%)	0	100	100
5	Bu	61/269 (23%)	56 (92%)	5 (8%)	0	100	100
5	Ca	61/269 (23%)	55 (90%)	6 (10%)	0	100	100
5	Cg	61/269 (23%)	58 (95%)	3 (5%)	0	100	100
5	Cm	61/269 (23%)	58 (95%)	3 (5%)	0	100	100
5	Cs	61/269 (23%)	53 (87%)	8 (13%)	0	100	100
5	Cy	61/269 (23%)	56 (92%)	5 (8%)	0	100	100
5	De	61/269 (23%)	55 (90%)	6 (10%)	0	100	100
5	Dk	61/269 (23%)	56 (92%)	5 (8%)	0	100	100
5	Dq	61/269 (23%)	57 (93%)	4 (7%)	0	100	100
5	Dw	61/269 (23%)	60 (98%)	1 (2%)	0	100	100
5	Ec	61/269 (23%)	60 (98%)	1 (2%)	0	100	100
6	Af	158/361 (44%)	153 (97%)	5 (3%)	0	100	100
6	Al	158/361 (44%)	149 (94%)	9 (6%)	0	100	100
6	Ar	158/361 (44%)	151 (96%)	7 (4%)	0	100	100
6	Ax	158/361 (44%)	149 (94%)	9 (6%)	0	100	100
6	Bd	158/361 (44%)	152 (96%)	6 (4%)	0	100	100
6	Bj	158/361 (44%)	148 (94%)	10 (6%)	0	100	100
6	Bp	158/361 (44%)	147 (93%)	11 (7%)	0	100	100
6	Bv	158/361 (44%)	150 (95%)	8 (5%)	0	100	100
6	Cb	158/361 (44%)	151 (96%)	7 (4%)	0	100	100
6	Ch	158/361 (44%)	151 (96%)	7 (4%)	0	100	100
6	Cn	158/361 (44%)	146 (92%)	12 (8%)	0	100	100
6	Ct	158/361 (44%)	147 (93%)	11 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	Cz	158/361 (44%)	150 (95%)	8 (5%)	0	100	100
6	Df	158/361 (44%)	149 (94%)	9 (6%)	0	100	100
6	Dl	158/361 (44%)	152 (96%)	6 (4%)	0	100	100
6	Dr	158/361 (44%)	152 (96%)	6 (4%)	0	100	100
6	Dx	158/361 (44%)	155 (98%)	3 (2%)	0	100	100
6	Ed	158/361 (44%)	149 (94%)	9 (6%)	0	100	100
7	Ee	32/1048 (3%)	32 (100%)	0	0	100	100
7	Ef	57/1048 (5%)	57 (100%)	0	0	100	100
7	Eg	32/1048 (3%)	32 (100%)	0	0	100	100
7	Eh	46/1048 (4%)	44 (96%)	2 (4%)	0	100	100
7	Ei	47/1048 (4%)	45 (96%)	2 (4%)	0	100	100
7	Ej	56/1048 (5%)	56 (100%)	0	0	100	100
7	Ek	32/1048 (3%)	31 (97%)	1 (3%)	0	100	100
7	El	32/1048 (3%)	32 (100%)	0	0	100	100
7	Em	44/1048 (4%)	43 (98%)	1 (2%)	0	100	100
7	En	32/1048 (3%)	32 (100%)	0	0	100	100
7	Eo	32/1048 (3%)	32 (100%)	0	0	100	100
7	Ep	32/1048 (3%)	32 (100%)	0	0	100	100
7	Eq	55/1048 (5%)	52 (94%)	3 (6%)	0	100	100
7	Er	32/1048 (3%)	31 (97%)	1 (3%)	0	100	100
7	Es	54/1048 (5%)	53 (98%)	1 (2%)	0	100	100
7	Et	46/1048 (4%)	44 (96%)	2 (4%)	0	100	100
7	Eu	57/1048 (5%)	56 (98%)	1 (2%)	0	100	100
7	Ev	32/1048 (3%)	30 (94%)	2 (6%)	0	100	100
7	Fg	41/1048 (4%)	41 (100%)	0	0	100	100
7	Fh	41/1048 (4%)	41 (100%)	0	0	100	100
7	Fi	41/1048 (4%)	40 (98%)	1 (2%)	0	100	100
7	Fj	41/1048 (4%)	41 (100%)	0	0	100	100
7	Fk	41/1048 (4%)	40 (98%)	1 (2%)	0	100	100
8	Ew	413/466 (89%)	396 (96%)	17 (4%)	0	100	100
8	Ex	413/466 (89%)	398 (96%)	15 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	Ey	413/466 (89%)	394 (95%)	19 (5%)	0	100	100
8	Ez	413/466 (89%)	388 (94%)	25 (6%)	0	100	100
8	Fa	413/466 (89%)	394 (95%)	19 (5%)	0	100	100
9	Fb	847/1048 (81%)	810 (96%)	37 (4%)	0	100	100
9	Fc	847/1048 (81%)	805 (95%)	42 (5%)	0	100	100
9	Fd	847/1048 (81%)	799 (94%)	48 (6%)	0	100	100
9	Fe	847/1048 (81%)	793 (94%)	54 (6%)	0	100	100
9	Ff	847/1048 (81%)	794 (94%)	53 (6%)	0	100	100
All	All	11881/43842 (27%)	11290 (95%)	591 (5%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Aa	11/11 (100%)	11 (100%)	0	100	100
1	Ag	11/11 (100%)	11 (100%)	0	100	100
1	Am	11/11 (100%)	10 (91%)	1 (9%)	9	28
1	As	11/11 (100%)	11 (100%)	0	100	100
1	Ay	11/11 (100%)	11 (100%)	0	100	100
1	Be	11/11 (100%)	11 (100%)	0	100	100
1	Bk	11/11 (100%)	11 (100%)	0	100	100
1	Bq	11/11 (100%)	11 (100%)	0	100	100
1	Bw	11/11 (100%)	11 (100%)	0	100	100
1	Cc	11/11 (100%)	10 (91%)	1 (9%)	9	28
1	Ci	11/11 (100%)	9 (82%)	2 (18%)	2	10
1	Co	11/11 (100%)	11 (100%)	0	100	100
1	Cu	11/11 (100%)	11 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Da	11/11 (100%)	11 (100%)	0	100	100
1	Dg	11/11 (100%)	10 (91%)	1 (9%)	9	28
1	Dm	11/11 (100%)	10 (91%)	1 (9%)	9	28
1	Ds	11/11 (100%)	10 (91%)	1 (9%)	9	28
1	Dy	11/11 (100%)	11 (100%)	0	100	100
2	Ab	7/7 (100%)	7 (100%)	0	100	100
2	Ah	7/7 (100%)	7 (100%)	0	100	100
2	An	7/7 (100%)	7 (100%)	0	100	100
2	At	7/7 (100%)	7 (100%)	0	100	100
2	Az	7/7 (100%)	7 (100%)	0	100	100
2	Bf	7/7 (100%)	7 (100%)	0	100	100
2	Bl	7/7 (100%)	7 (100%)	0	100	100
2	Br	7/7 (100%)	7 (100%)	0	100	100
2	Bx	7/7 (100%)	7 (100%)	0	100	100
2	Cd	7/7 (100%)	7 (100%)	0	100	100
2	Cj	7/7 (100%)	6 (86%)	1 (14%)	3	14
2	Cp	7/7 (100%)	6 (86%)	1 (14%)	3	14
2	Cv	7/7 (100%)	7 (100%)	0	100	100
2	Db	7/7 (100%)	7 (100%)	0	100	100
2	Dh	7/7 (100%)	7 (100%)	0	100	100
2	Dn	7/7 (100%)	7 (100%)	0	100	100
2	Dt	7/7 (100%)	7 (100%)	0	100	100
2	Dz	7/7 (100%)	7 (100%)	0	100	100
3	Ac	13/13 (100%)	12 (92%)	1 (8%)	12	32
3	Ai	13/13 (100%)	12 (92%)	1 (8%)	12	32
3	Ao	13/13 (100%)	12 (92%)	1 (8%)	12	32
3	Au	13/13 (100%)	13 (100%)	0	100	100
3	Ba	13/13 (100%)	13 (100%)	0	100	100
3	Bg	13/13 (100%)	13 (100%)	0	100	100
3	Bm	13/13 (100%)	13 (100%)	0	100	100
3	Bs	13/13 (100%)	13 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	By	13/13 (100%)	12 (92%)	1 (8%)	12	32
3	Ce	13/13 (100%)	12 (92%)	1 (8%)	12	32
3	Ck	13/13 (100%)	13 (100%)	0	100	100
3	Cq	13/13 (100%)	13 (100%)	0	100	100
3	Cw	13/13 (100%)	13 (100%)	0	100	100
3	Dc	13/13 (100%)	12 (92%)	1 (8%)	12	32
3	Di	13/13 (100%)	12 (92%)	1 (8%)	12	32
3	Do	13/13 (100%)	11 (85%)	2 (15%)	2	13
3	Du	13/13 (100%)	13 (100%)	0	100	100
3	Ea	13/13 (100%)	12 (92%)	1 (8%)	12	32
4	Ad	3/3 (100%)	3 (100%)	0	100	100
4	Aj	3/3 (100%)	3 (100%)	0	100	100
4	Ap	3/3 (100%)	3 (100%)	0	100	100
4	Av	3/3 (100%)	3 (100%)	0	100	100
4	Bb	3/3 (100%)	3 (100%)	0	100	100
4	Bh	3/3 (100%)	3 (100%)	0	100	100
4	Bn	3/3 (100%)	3 (100%)	0	100	100
4	Bt	3/3 (100%)	3 (100%)	0	100	100
4	Bz	3/3 (100%)	3 (100%)	0	100	100
4	Cf	3/3 (100%)	3 (100%)	0	100	100
4	Cl	3/3 (100%)	3 (100%)	0	100	100
4	Cr	3/3 (100%)	3 (100%)	0	100	100
4	Cx	3/3 (100%)	3 (100%)	0	100	100
4	Dd	3/3 (100%)	3 (100%)	0	100	100
4	Dj	3/3 (100%)	3 (100%)	0	100	100
4	Dp	3/3 (100%)	3 (100%)	0	100	100
4	Dv	3/3 (100%)	3 (100%)	0	100	100
4	Eb	3/3 (100%)	3 (100%)	0	100	100
5	Ae	53/237 (22%)	52 (98%)	1 (2%)	50	66
5	Ak	53/237 (22%)	52 (98%)	1 (2%)	50	66
5	Aq	53/237 (22%)	50 (94%)	3 (6%)	18	40

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	Aw	53/237 (22%)	51 (96%)	2 (4%)	29	50
5	Bc	53/237 (22%)	50 (94%)	3 (6%)	18	40
5	Bi	53/237 (22%)	52 (98%)	1 (2%)	50	66
5	Bo	53/237 (22%)	49 (92%)	4 (8%)	12	33
5	Bu	53/237 (22%)	51 (96%)	2 (4%)	29	50
5	Ca	53/237 (22%)	52 (98%)	1 (2%)	50	66
5	Cg	53/237 (22%)	49 (92%)	4 (8%)	12	33
5	Cm	53/237 (22%)	47 (89%)	6 (11%)	5	20
5	Cs	53/237 (22%)	53 (100%)	0	100	100
5	Cy	53/237 (22%)	51 (96%)	2 (4%)	29	50
5	De	53/237 (22%)	51 (96%)	2 (4%)	29	50
5	Dk	53/237 (22%)	53 (100%)	0	100	100
5	Dq	53/237 (22%)	53 (100%)	0	100	100
5	Dw	53/237 (22%)	50 (94%)	3 (6%)	18	40
5	Ec	53/237 (22%)	53 (100%)	0	100	100
6	Af	137/300 (46%)	127 (93%)	10 (7%)	13	34
6	Al	137/300 (46%)	131 (96%)	6 (4%)	25	47
6	Ar	137/300 (46%)	135 (98%)	2 (2%)	57	70
6	Ax	137/300 (46%)	128 (93%)	9 (7%)	15	37
6	Bd	137/300 (46%)	132 (96%)	5 (4%)	31	52
6	Bj	137/300 (46%)	132 (96%)	5 (4%)	31	52
6	Bp	137/300 (46%)	128 (93%)	9 (7%)	15	37
6	Bv	137/300 (46%)	130 (95%)	7 (5%)	21	43
6	Cb	137/300 (46%)	128 (93%)	9 (7%)	15	37
6	Ch	137/300 (46%)	130 (95%)	7 (5%)	21	43
6	Cn	137/300 (46%)	127 (93%)	10 (7%)	13	34
6	Ct	137/300 (46%)	135 (98%)	2 (2%)	57	70
6	Cz	137/300 (46%)	130 (95%)	7 (5%)	21	43
6	Df	137/300 (46%)	128 (93%)	9 (7%)	15	37
6	Dl	137/300 (46%)	125 (91%)	12 (9%)	9	29
6	Dr	137/300 (46%)	128 (93%)	9 (7%)	15	37

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	Dx	137/300 (46%)	131 (96%)	6 (4%)	25	47
6	Ed	137/300 (46%)	127 (93%)	10 (7%)	13	34
7	Ee	31/765 (4%)	29 (94%)	2 (6%)	15	37
7	Ef	51/765 (7%)	48 (94%)	3 (6%)	18	40
7	Eg	31/765 (4%)	31 (100%)	0	100	100
7	Eh	44/765 (6%)	44 (100%)	0	100	100
7	Ei	44/765 (6%)	39 (89%)	5 (11%)	5	19
7	Ej	50/765 (6%)	48 (96%)	2 (4%)	28	49
7	Ek	31/765 (4%)	31 (100%)	0	100	100
7	El	31/765 (4%)	31 (100%)	0	100	100
7	Em	42/765 (6%)	38 (90%)	4 (10%)	8	25
7	En	31/765 (4%)	29 (94%)	2 (6%)	15	37
7	Eo	31/765 (4%)	30 (97%)	1 (3%)	34	55
7	Ep	31/765 (4%)	31 (100%)	0	100	100
7	Eq	50/765 (6%)	48 (96%)	2 (4%)	28	49
7	Er	31/765 (4%)	31 (100%)	0	100	100
7	Es	50/765 (6%)	44 (88%)	6 (12%)	5	18
7	Et	44/765 (6%)	42 (96%)	2 (4%)	24	46
7	Eu	51/765 (7%)	50 (98%)	1 (2%)	48	65
7	Ev	31/765 (4%)	31 (100%)	0	100	100
7	Fg	36/765 (5%)	36 (100%)	0	100	100
7	Fh	36/765 (5%)	36 (100%)	0	100	100
7	Fi	36/765 (5%)	36 (100%)	0	100	100
7	Fj	36/765 (5%)	34 (94%)	2 (6%)	19	41
7	Fk	36/765 (5%)	34 (94%)	2 (6%)	19	41
8	Ew	360/401 (90%)	350 (97%)	10 (3%)	38	59
8	Ex	360/401 (90%)	349 (97%)	11 (3%)	35	56
8	Ey	360/401 (90%)	352 (98%)	8 (2%)	45	64
8	Ez	360/401 (90%)	348 (97%)	12 (3%)	33	55
8	Fa	360/401 (90%)	353 (98%)	7 (2%)	50	66
9	Fb	715/858 (83%)	691 (97%)	24 (3%)	32	54

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	Fc	715/858 (83%)	682 (95%)	33 (5%)	24	46
9	Fd	715/858 (83%)	693 (97%)	22 (3%)	35	56
9	Fe	715/858 (83%)	676 (94%)	39 (6%)	19	42
9	Ff	715/858 (83%)	688 (96%)	27 (4%)	29	50
All	All	10292/34168 (30%)	9877 (96%)	415 (4%)	29	49

All (415) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	Ac	8	VAL
5	Ae	211	TYR
6	Af	139	TYR
6	Af	144	THR
6	Af	147	THR
6	Af	168	VAL
6	Af	179	LEU
6	Af	202	PHE
6	Af	223	TYR
6	Af	226	LEU
6	Af	237	VAL
6	Af	256	VAL
3	Ai	8	VAL
5	Ak	245	LYS
6	Al	112	PHE
6	Al	127	VAL
6	Al	129	LYS
6	Al	134	TYR
6	Al	241	LEU
6	Al	259	TYR
1	Am	9	LEU
3	Ao	1	ARG
5	Aq	229	THR
5	Aq	238	ILE
5	Aq	255	LEU
6	Ar	179	LEU
6	Ar	259	TYR
5	Aw	246	LEU
5	Aw	247	ILE
6	Ax	144	THR
6	Ax	158	VAL
6	Ax	170	ARG

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Mol	Chain	Res	Type
6	Ax	171	LEU
6	Ax	202	PHE
6	Ax	213	LEU
6	Ax	220	LEU
6	Ax	248	VAL
6	Ax	259	TYR
5	Bc	211	TYR
5	Bc	238	ILE
5	Bc	264	PHE
6	Bd	122	LEU
6	Bd	144	THR
6	Bd	147	THR
6	Bd	202	PHE
6	Bd	241	LEU
5	Bi	238	ILE
6	Bj	119	LEU
6	Bj	125	GLU
6	Bj	128	VAL
6	Bj	179	LEU
6	Bj	250	TYR
5	Bo	216	ILE
5	Bo	236	SER
5	Bo	238	ILE
5	Bo	243	MET
6	Bp	113	LYS
6	Bp	127	VAL
6	Bp	128	VAL
6	Bp	134	TYR
6	Bp	202	PHE
6	Bp	215	ILE
6	Bp	242	ILE
6	Bp	248	VAL
6	Bp	254	LEU
5	Bu	222	LEU
5	Bu	244	VAL
6	Bv	127	VAL
6	Bv	128	VAL
6	Bv	168	VAL
6	Bv	221	TYR
6	Bv	228	VAL
6	Bv	241	LEU
6	Bv	248	VAL

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Mol	Chain	Res	Type
3	By	8	VAL
5	Ca	238	ILE
6	Cb	127	VAL
6	Cb	134	TYR
6	Cb	144	THR
6	Cb	168	VAL
6	Cb	176	VAL
6	Cb	177	SER
6	Cb	228	VAL
6	Cb	241	LEU
6	Cb	248	VAL
1	Cc	2	THR
3	Ce	7	THR
5	Cg	208	ILE
5	Cg	236	SER
5	Cg	238	ILE
5	Cg	247	ILE
6	Ch	172	SER
6	Ch	176	VAL
6	Ch	226	LEU
6	Ch	239	LEU
6	Ch	241	LEU
6	Ch	242	ILE
6	Ch	259	TYR
1	Ci	2	THR
1	Ci	3	ASP
2	Cj	4	MET
5	Cm	207	ARG
5	Cm	211	TYR
5	Cm	232	VAL
5	Cm	236	SER
5	Cm	246	LEU
5	Cm	250	LEU
6	Cn	107	ILE
6	Cn	128	VAL
6	Cn	129	LYS
6	Cn	141	LYS
6	Cn	144	THR
6	Cn	171	LEU
6	Cn	176	VAL
6	Cn	222	ASN
6	Cn	223	TYR

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Mol	Chain	Res	Type
6	Cn	259	TYR
2	Cp	4	MET
6	Ct	128	VAL
6	Ct	202	PHE
5	Cy	244	VAL
5	Cy	255	LEU
6	Cz	105	GLU
6	Cz	168	VAL
6	Cz	173	GLN
6	Cz	202	PHE
6	Cz	213	LEU
6	Cz	242	ILE
6	Cz	248	VAL
3	Dc	8	VAL
5	De	233	ARG
5	De	244	VAL
6	Df	120	TYR
6	Df	122	LEU
6	Df	160	LEU
6	Df	180	VAL
6	Df	202	PHE
6	Df	241	LEU
6	Df	242	ILE
6	Df	248	VAL
6	Df	256	VAL
1	Dg	9	LEU
3	Di	16	ASP
6	Dl	127	VAL
6	Dl	128	VAL
6	Dl	134	TYR
6	Dl	144	THR
6	Dl	169	ILE
6	Dl	171	LEU
6	Dl	202	PHE
6	Dl	204	ILE
6	Dl	228	VAL
6	Dl	235	THR
6	Dl	241	LEU
6	Dl	248	VAL
1	Dm	10	GLU
3	Do	7	THR
3	Do	8	VAL

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Mol	Chain	Res	Type
6	Dr	127	VAL
6	Dr	147	THR
6	Dr	158	VAL
6	Dr	168	VAL
6	Dr	179	LEU
6	Dr	191	ILE
6	Dr	215	ILE
6	Dr	230	LEU
6	Dr	234	ASN
1	Ds	9	LEU
5	Dw	244	VAL
5	Dw	253	ARG
5	Dw	262	ILE
6	Dx	158	VAL
6	Dx	165	THR
6	Dx	170	ARG
6	Dx	209	THR
6	Dx	228	VAL
6	Dx	248	VAL
3	Ea	8	VAL
6	Ed	122	LEU
6	Ed	177	SER
6	Ed	180	VAL
6	Ed	182	LEU
6	Ed	215	ILE
6	Ed	228	VAL
6	Ed	241	LEU
6	Ed	248	VAL
6	Ed	256	VAL
6	Ed	257	GLN
7	Ee	797	ARG
7	Ee	817	THR
7	Ef	780	LYS
7	Ef	794	ILE
7	Ef	797	ARG
7	Ei	782	ASN
7	Ei	790	TYR
7	Ei	799	SER
7	Ei	812	TRP
7	Ei	817	THR
7	Ej	799	SER
7	Ej	817	THR

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Mol	Chain	Res	Type
7	Em	788	GLN
7	Em	799	SER
7	Em	811	ASP
7	Em	819	VAL
7	En	795	GLN
7	En	817	THR
7	Eo	815	VAL
7	Eq	769	SER
7	Eq	778	LEU
7	Es	785	LEU
7	Es	799	SER
7	Es	807	GLN
7	Es	812	TRP
7	Es	817	THR
7	Es	821	THR
7	Et	788	GLN
7	Et	789	LYS
7	Eu	818	GLN
8	Ew	89	ILE
8	Ew	106	VAL
8	Ew	119	THR
8	Ew	170	LEU
8	Ew	210	VAL
8	Ew	294	LYS
8	Ew	326	LEU
8	Ew	334	ARG
8	Ew	423	ASN
8	Ew	428	LEU
8	Ex	39	LEU
8	Ex	101	PHE
8	Ex	196	LYS
8	Ex	197	ASN
8	Ex	227	THR
8	Ex	375	GLU
8	Ex	381	ARG
8	Ex	425	GLN
8	Ex	434	GLU
8	Ex	437	LEU
8	Ex	440	ASN
8	Ey	171	ASN
8	Ey	178	VAL
8	Ey	210	VAL

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Mol	Chain	Res	Type
8	Ey	300	GLU
8	Ey	373	LEU
8	Ey	375	GLU
8	Ey	383	LEU
8	Ey	445	LEU
8	Ez	76	LEU
8	Ez	101	PHE
8	Ez	102	VAL
8	Ez	142	ILE
8	Ez	172	ASP
8	Ez	277	LEU
8	Ez	301	LEU
8	Ez	302	TRP
8	Ez	326	LEU
8	Ez	332	ASN
8	Ez	371	GLN
8	Ez	387	THR
8	Fa	91	VAL
8	Fa	95	SER
8	Fa	268	THR
8	Fa	287	VAL
8	Fa	300	GLU
8	Fa	371	GLN
8	Fa	421	GLU
9	Fb	131	VAL
9	Fb	141	LYS
9	Fb	244	ASN
9	Fb	339	MET
9	Fb	413	LEU
9	Fb	436	LEU
9	Fb	473	LYS
9	Fb	495	SER
9	Fb	509	CYS
9	Fb	519	TRP
9	Fb	545	VAL
9	Fb	550	LEU
9	Fb	564	SER
9	Fb	593	LEU
9	Fb	631	LEU
9	Fb	652	ILE
9	Fb	660	LEU
9	Fb	703	LEU

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Mol	Chain	Res	Type
9	Fb	716	LEU
9	Fb	728	ILE
9	Fb	774	GLU
9	Fb	905	TRP
9	Fb	908	VAL
9	Fb	936	LEU
9	Fc	45	VAL
9	Fc	113	LEU
9	Fc	124	MET
9	Fc	126	VAL
9	Fc	210	LYS
9	Fc	273	TYR
9	Fc	282	VAL
9	Fc	302	VAL
9	Fc	330	LEU
9	Fc	360	THR
9	Fc	384	SER
9	Fc	434	LEU
9	Fc	491	LEU
9	Fc	508	THR
9	Fc	509	CYS
9	Fc	559	VAL
9	Fc	590	PHE
9	Fc	643	PHE
9	Fc	652	ILE
9	Fc	705	LEU
9	Fc	716	LEU
9	Fc	717	ILE
9	Fc	727	LEU
9	Fc	728	ILE
9	Fc	729	MET
9	Fc	738	TRP
9	Fc	755	VAL
9	Fc	759	MET
9	Fc	760	ILE
9	Fc	834	ASN
9	Fc	935	HIS
9	Fc	936	LEU
9	Fc	943	TRP
9	Fd	41	LEU
9	Fd	50	HIS
9	Fd	74	ILE

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Mol	Chain	Res	Type
9	Fd	150	LEU
9	Fd	227	ARG
9	Fd	260	GLU
9	Fd	270	SER
9	Fd	281	THR
9	Fd	341	VAL
9	Fd	369	ASP
9	Fd	509	CYS
9	Fd	514	SER
9	Fd	559	VAL
9	Fd	586	LYS
9	Fd	593	LEU
9	Fd	676	GLN
9	Fd	703	LEU
9	Fd	708	LEU
9	Fd	725	PHE
9	Fd	728	ILE
9	Fd	738	TRP
9	Fd	781	ILE
9	Fe	35	VAL
9	Fe	36	VAL
9	Fe	38	LEU
9	Fe	56	ILE
9	Fe	127	PHE
9	Fe	150	LEU
9	Fe	151	ASN
9	Fe	196	LYS
9	Fe	261	LEU
9	Fe	320	ILE
9	Fe	325	LEU
9	Fe	388	VAL
9	Fe	390	THR
9	Fe	436	LEU
9	Fe	491	LEU
9	Fe	500	GLN
9	Fe	513	TYR
9	Fe	515	LEU
9	Fe	519	TRP
9	Fe	533	LEU
9	Fe	560	SER
9	Fe	563	LEU
9	Fe	572	ASN

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Mol	Chain	Res	Type
9	Fe	639	TYR
9	Fe	660	LEU
9	Fe	662	ILE
9	Fe	703	LEU
9	Fe	709	ASN
9	Fe	710	MET
9	Fe	717	ILE
9	Fe	728	ILE
9	Fe	759	MET
9	Fe	763	PHE
9	Fe	811	ARG
9	Fe	839	HIS
9	Fe	905	TRP
9	Fe	915	ILE
9	Fe	935	HIS
9	Fe	943	TRP
9	Ff	49	LEU
9	Ff	136	VAL
9	Ff	182	LEU
9	Ff	261	LEU
9	Ff	290	LEU
9	Ff	320	ILE
9	Ff	330	LEU
9	Ff	378	PHE
9	Ff	387	GLU
9	Ff	509	CYS
9	Ff	545	VAL
9	Ff	577	VAL
9	Ff	579	LEU
9	Ff	598	VAL
9	Ff	602	LEU
9	Ff	603	TYR
9	Ff	617	ILE
9	Ff	644	PHE
9	Ff	689	LEU
9	Ff	724	ILE
9	Ff	729	MET
9	Ff	736	MET
9	Ff	774	GLU
9	Ff	787	THR
9	Ff	820	ILE
9	Ff	925	ILE

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Mol	Chain	Res	Type
9	Ff	943	TRP
7	Fj	11	LEU
7	Fj	17	THR
7	Fk	1	MET
7	Fk	27	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (194) such sidechains are listed below:

Mol	Chain	Res	Type
6	Af	123	ASN
6	Af	132	GLN
6	Af	216	GLN
1	Ag	12	HIS
5	Ak	260	GLN
6	Al	132	GLN
6	Al	159	ASN
6	Al	203	ASN
1	Am	12	HIS
6	Ar	126	GLN
6	Ar	173	GLN
6	Ar	203	ASN
6	Ar	216	GLN
6	Ar	257	GLN
6	Ar	262	ASN
5	Aw	251	GLN
6	Ax	123	ASN
6	Ax	205	GLN
6	Ax	262	ASN
5	Bc	213	GLN
6	Bd	156	GLN
6	Bj	205	GLN
6	Bj	222	ASN
6	Bj	225	ASN
6	Bj	257	GLN
6	Bj	262	ASN
5	Bo	213	GLN
5	Bo	251	GLN
6	Bp	126	GLN
6	Bp	132	GLN
6	Bp	156	GLN
6	Bp	173	GLN
6	Bp	222	ASN

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Mol	Chain	Res	Type
6	Bp	245	GLN
6	Bv	123	ASN
6	Bv	126	GLN
6	Bv	132	GLN
6	Bv	173	GLN
6	Bv	257	GLN
6	Cb	132	GLN
6	Cb	203	ASN
6	Cb	262	ASN
6	Ch	132	GLN
6	Ch	262	ASN
5	Cm	213	GLN
5	Cm	266	GLN
6	Cn	123	ASN
6	Cn	203	ASN
6	Cn	205	GLN
5	Cs	251	GLN
5	Cs	260	GLN
5	Cy	251	GLN
6	Cz	225	ASN
6	Cz	234	ASN
6	Df	203	ASN
6	Df	211	ASN
6	Df	262	ASN
5	Dk	213	GLN
6	Dl	132	GLN
6	Dl	222	ASN
6	Dl	225	ASN
6	Dr	262	ASN
5	Dw	260	GLN
6	Dx	132	GLN
6	Dx	203	ASN
6	Dx	262	ASN
5	Ec	251	GLN
6	Ed	123	ASN
6	Ed	156	GLN
6	Ed	203	ASN
6	Ed	262	ASN
7	Eg	795	GLN
7	Eg	810	GLN
7	Eg	814	GLN
7	Eh	784	GLN

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Mol	Chain	Res	Type
7	Eh	792	GLN
7	Ei	779	GLN
7	Ei	792	GLN
7	Ek	814	GLN
7	El	814	GLN
7	Em	810	GLN
7	Eo	818	GLN
7	Ep	810	GLN
7	Eq	791	GLN
7	Eq	795	GLN
7	Er	810	GLN
7	Er	814	GLN
7	Es	775	GLN
7	Es	807	GLN
7	Et	781	GLN
7	Et	782	ASN
7	Et	792	GLN
7	Et	796	GLN
7	Et	814	GLN
7	Eu	775	GLN
7	Eu	818	GLN
7	Ev	791	GLN
7	Ev	810	GLN
8	Ew	78	GLN
8	Ew	79	ASN
8	Ew	208	ASN
8	Ew	212	GLN
8	Ew	237	GLN
8	Ew	242	GLN
8	Ew	246	ASN
8	Ew	286	GLN
8	Ew	412	GLN
8	Ew	431	GLN
8	Ex	62	ASN
8	Ex	79	ASN
8	Ex	123	GLN
8	Ex	171	ASN
8	Ex	263	GLN
8	Ex	374	ASN
8	Ex	425	GLN
8	Ex	447	ASN
8	Ey	72	ASN

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Mol	Chain	Res	Type
8	Ey	75	GLN
8	Ey	237	GLN
8	Ey	246	ASN
8	Ey	274	GLN
8	Ey	286	GLN
8	Ey	339	GLN
8	Ey	412	GLN
8	Ey	423	ASN
8	Ey	425	GLN
8	Ey	431	GLN
8	Ez	45	ASN
8	Ez	72	ASN
8	Ez	79	ASN
8	Ez	139	ASN
8	Ez	144	GLN
8	Ez	180	ASN
8	Ez	193	ASN
8	Ez	212	GLN
8	Ez	213	ASN
8	Ez	236	ASN
8	Ez	303	ASN
8	Ez	363	GLN
8	Ez	374	ASN
8	Ez	425	GLN
8	Fa	79	ASN
8	Fa	83	ASN
8	Fa	212	GLN
8	Fa	213	ASN
8	Fa	222	GLN
8	Fa	260	GLN
8	Fa	286	GLN
8	Fa	303	ASN
8	Fa	339	GLN
8	Fa	433	GLN
8	Fa	447	ASN
9	Fb	295	GLN
9	Fb	415	ASN
9	Fb	542	GLN
9	Fb	709	ASN
9	Fb	807	ASN
9	Fc	92	GLN
9	Fc	197	GLN

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Mol	Chain	Res	Type
9	Fc	286	ASN
9	Fc	326	GLN
9	Fc	338	GLN
9	Fc	484	GLN
9	Fc	521	GLN
9	Fc	529	GLN
9	Fd	134	GLN
9	Fd	197	GLN
9	Fd	337	GLN
9	Fd	397	GLN
9	Fd	457	ASN
9	Fd	709	ASN
9	Fd	927	GLN
9	Fe	65	ASN
9	Fe	92	GLN
9	Fe	96	GLN
9	Fe	151	ASN
9	Fe	265	ASN
9	Fe	291	ASN
9	Fe	368	ASN
9	Fe	435	ASN
9	Fe	510	GLN
9	Fe	531	GLN
9	Fe	698	ASN
9	Ff	59	ASN
9	Ff	96	GLN
9	Ff	188	GLN
9	Ff	197	GLN
9	Ff	199	GLN
9	Ff	294	ASN
9	Ff	316	ASN
9	Ff	337	GLN
9	Ff	338	GLN
9	Ff	927	GLN
7	Fg	7	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

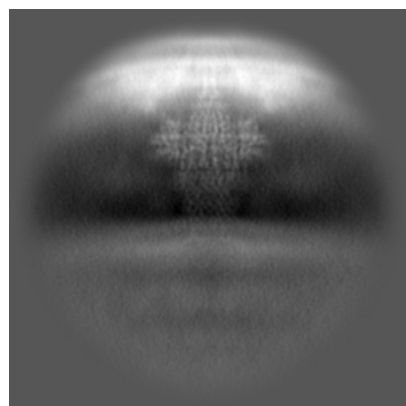
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-49398. These allow visual inspection of the internal detail of the map and identification of artifacts.

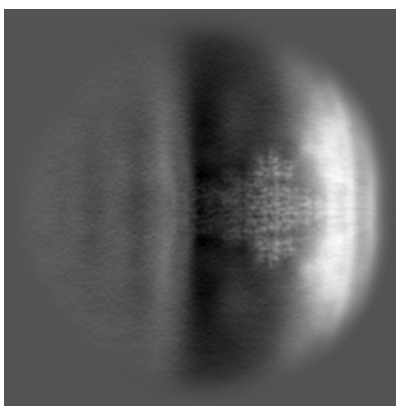
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

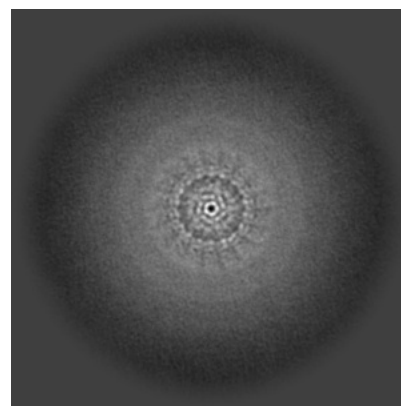
6.1.1 Primary map



X

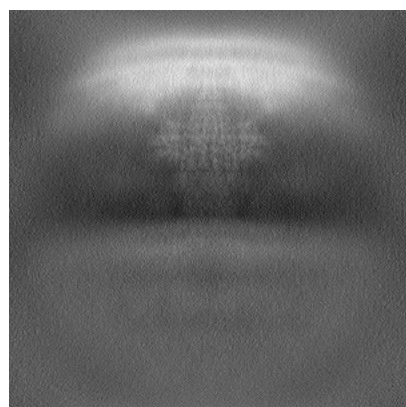


Y

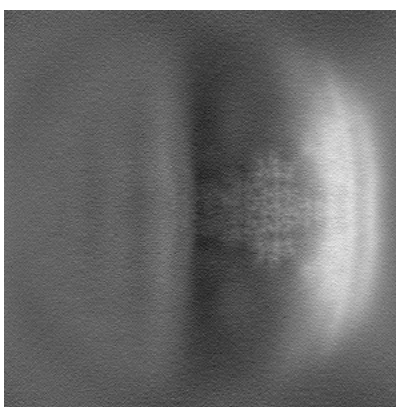


Z

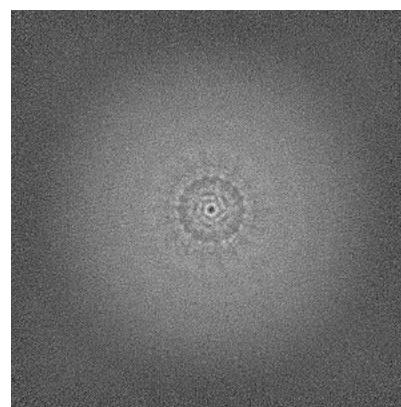
6.1.2 Raw map



X



Y

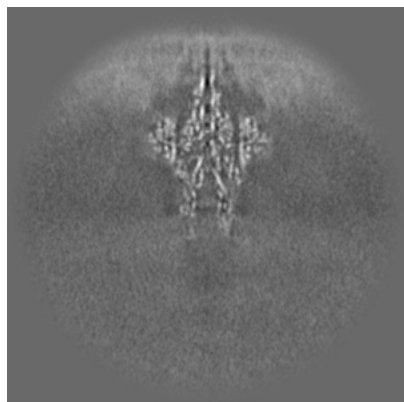


Z

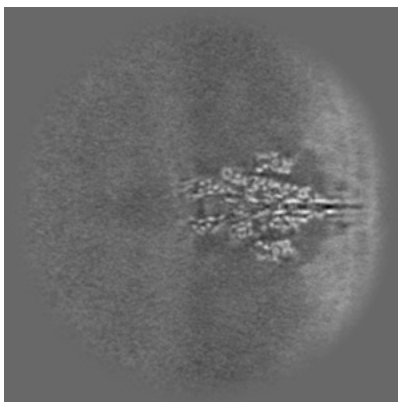
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

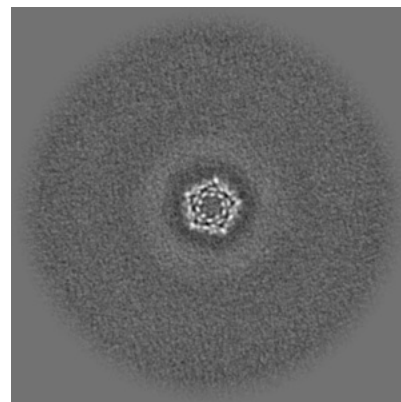
6.2.1 Primary map



X Index: 256

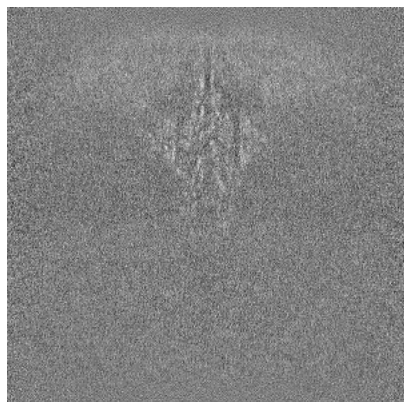


Y Index: 256

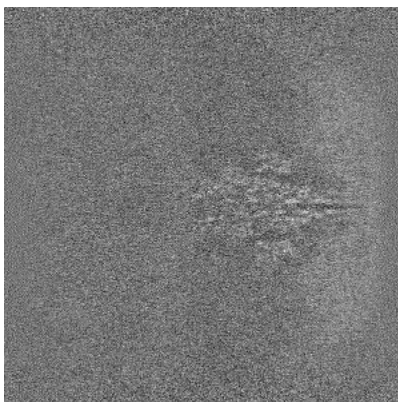


Z Index: 256

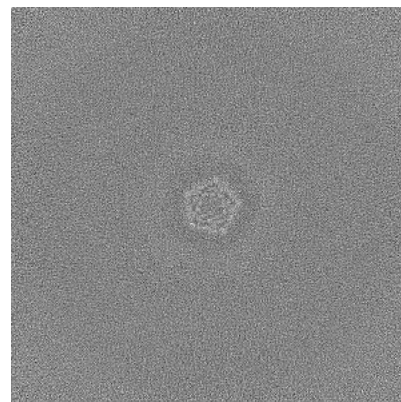
6.2.2 Raw map



X Index: 256



Y Index: 256

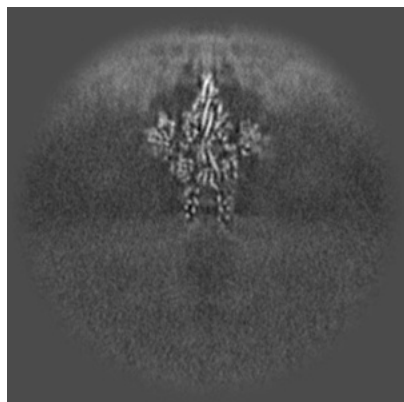


Z Index: 256

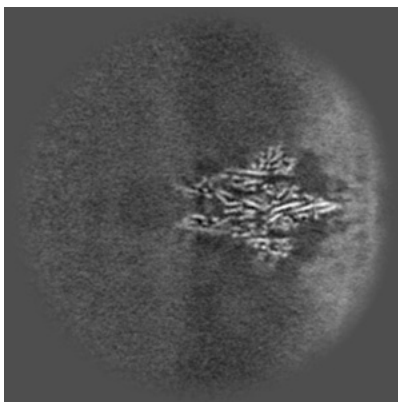
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

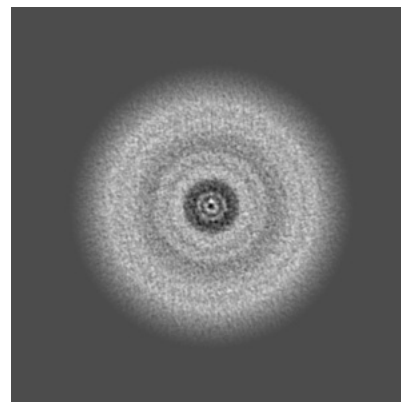
6.3.1 Primary map



X Index: 250

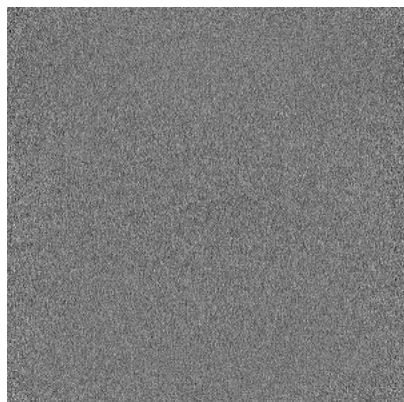


Y Index: 263

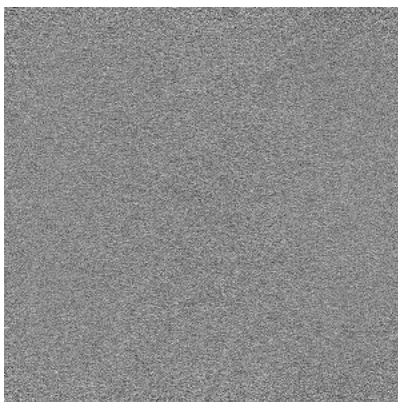


Z Index: 430

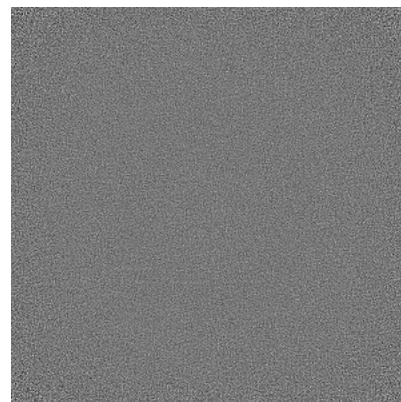
6.3.2 Raw map



X Index: 0



Y Index: 0

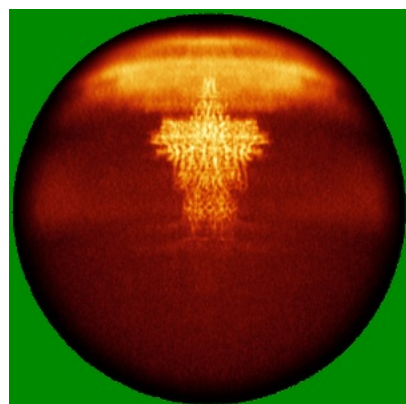


Z Index: 511

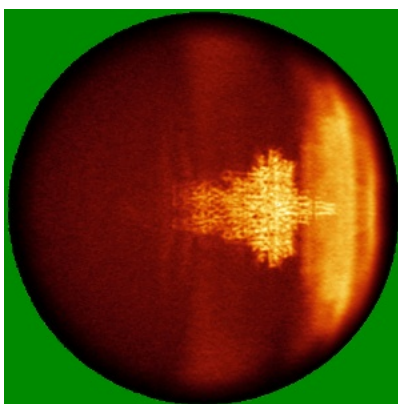
The images above show the largest variance slices of the map in three orthogonal directions.

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

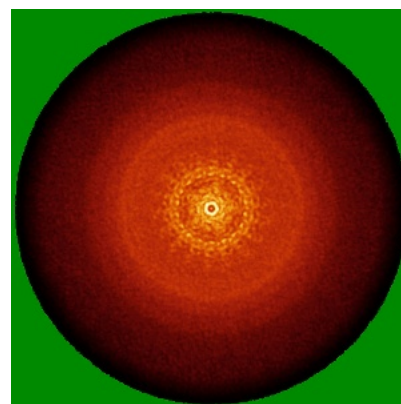
6.4.1 Primary map



X

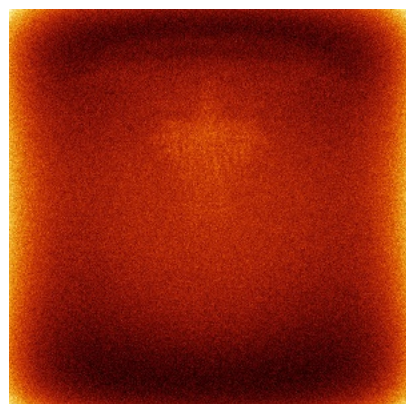


Y

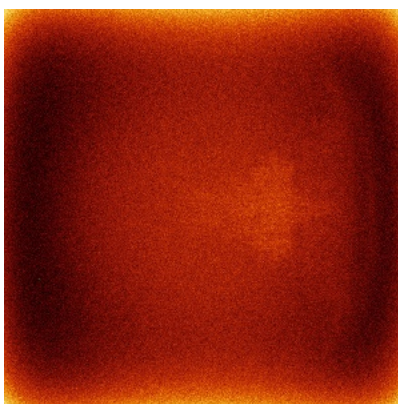


Z

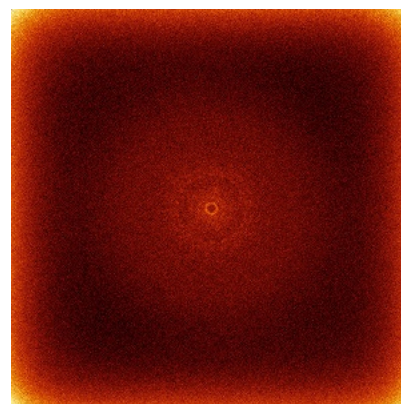
6.4.2 Raw map



X



Y

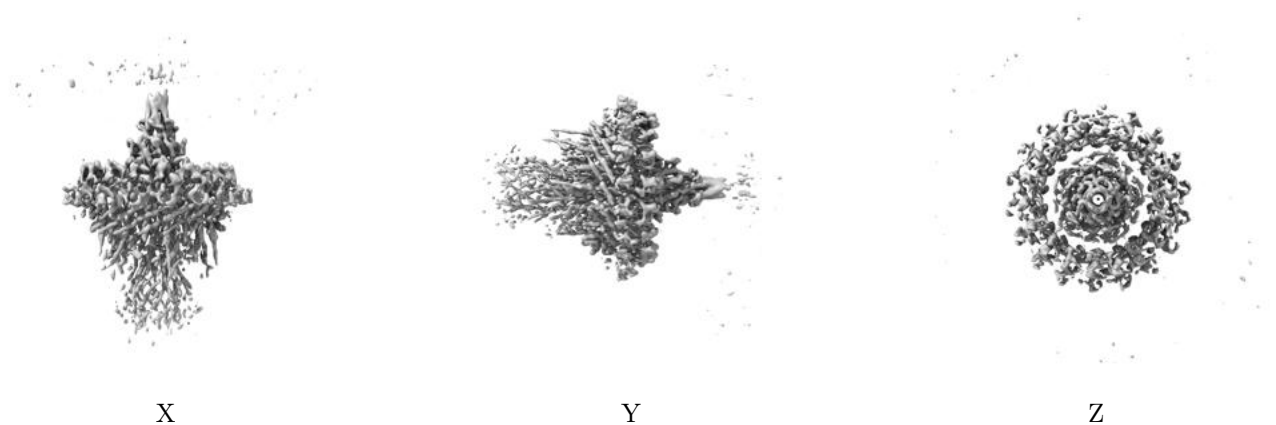


Z

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

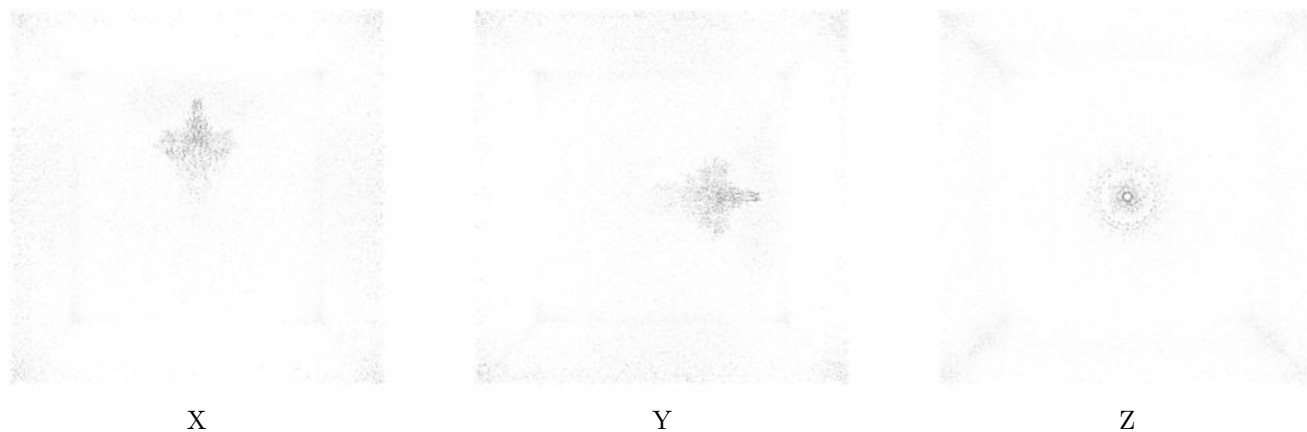
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.16. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

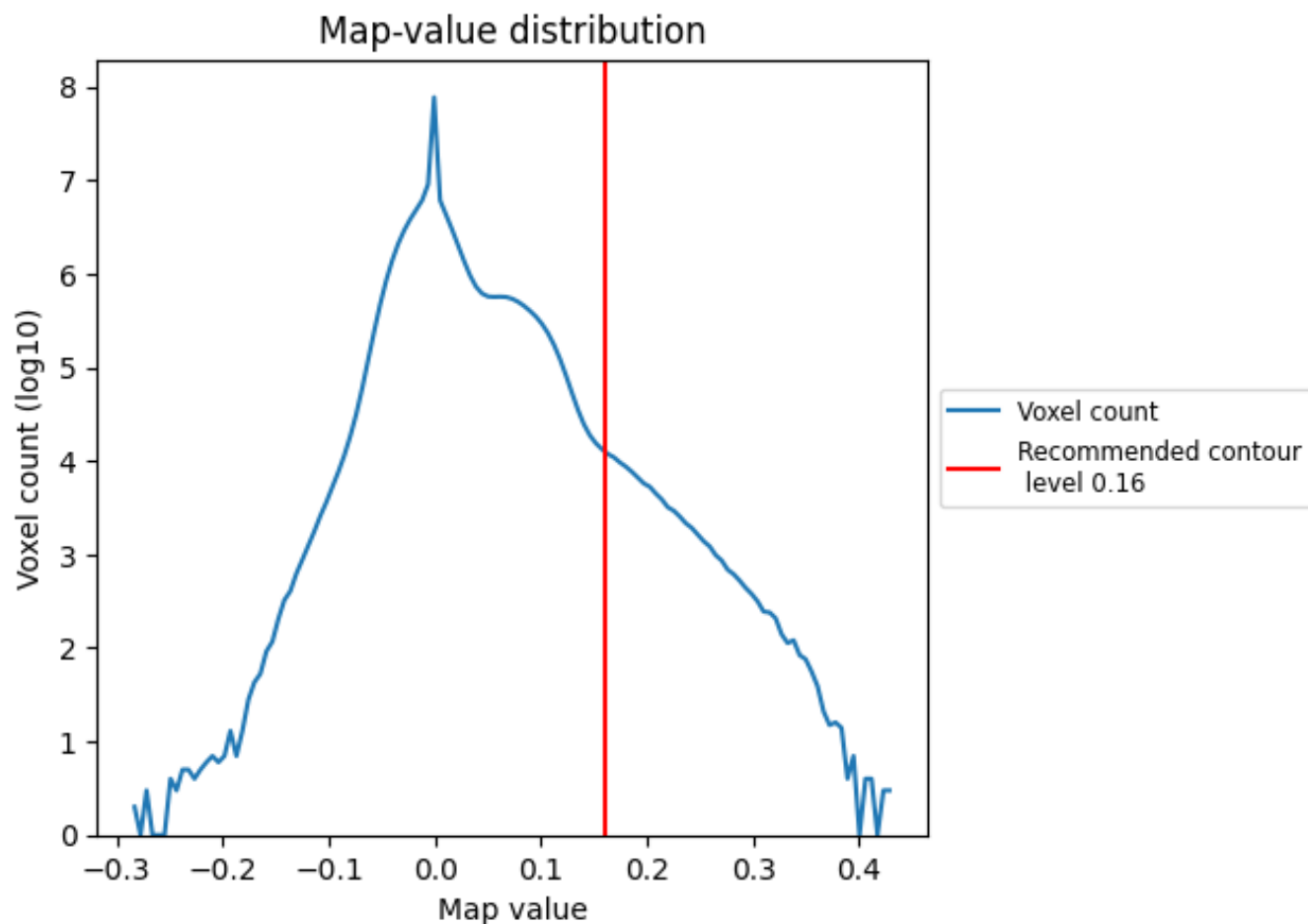
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

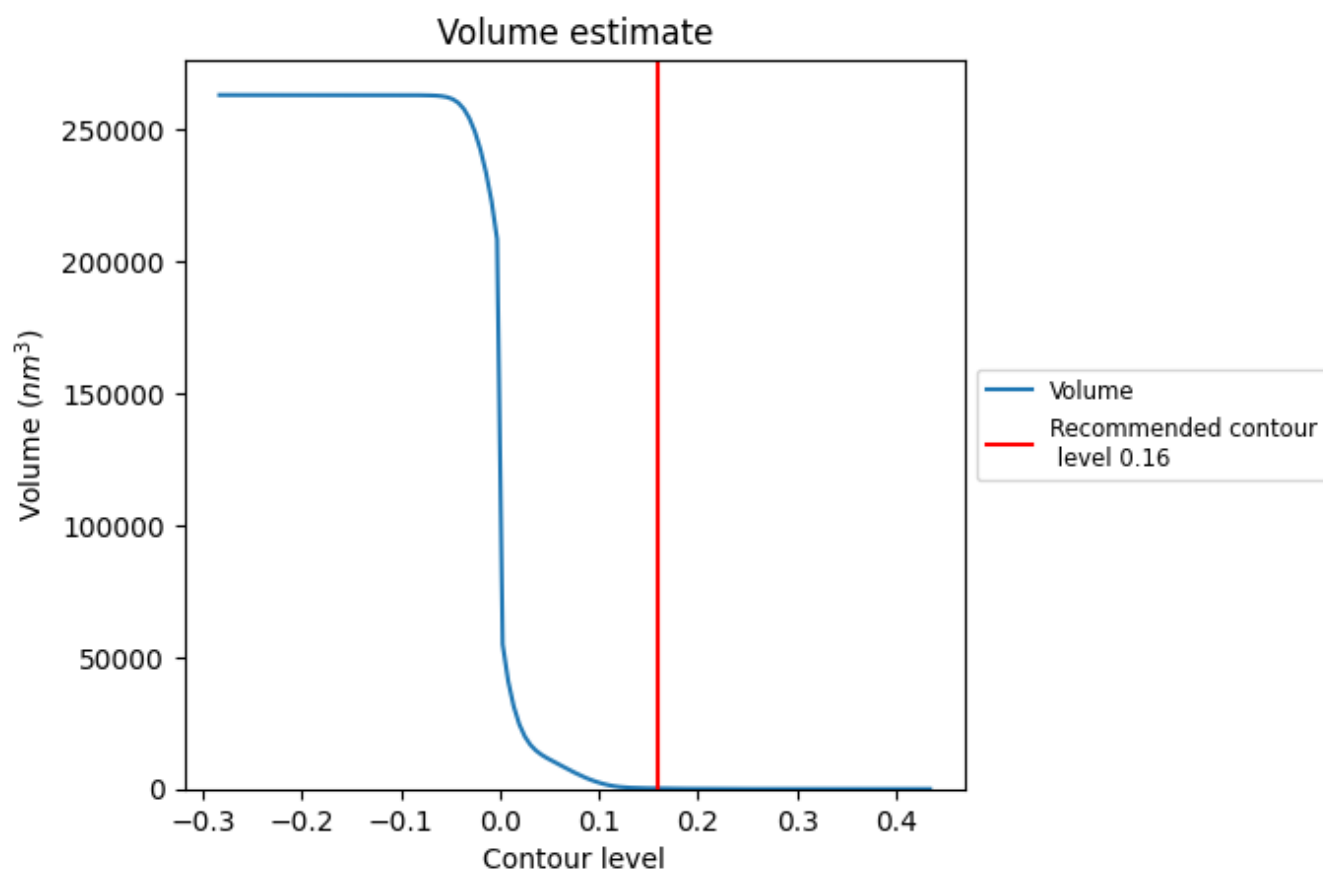
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

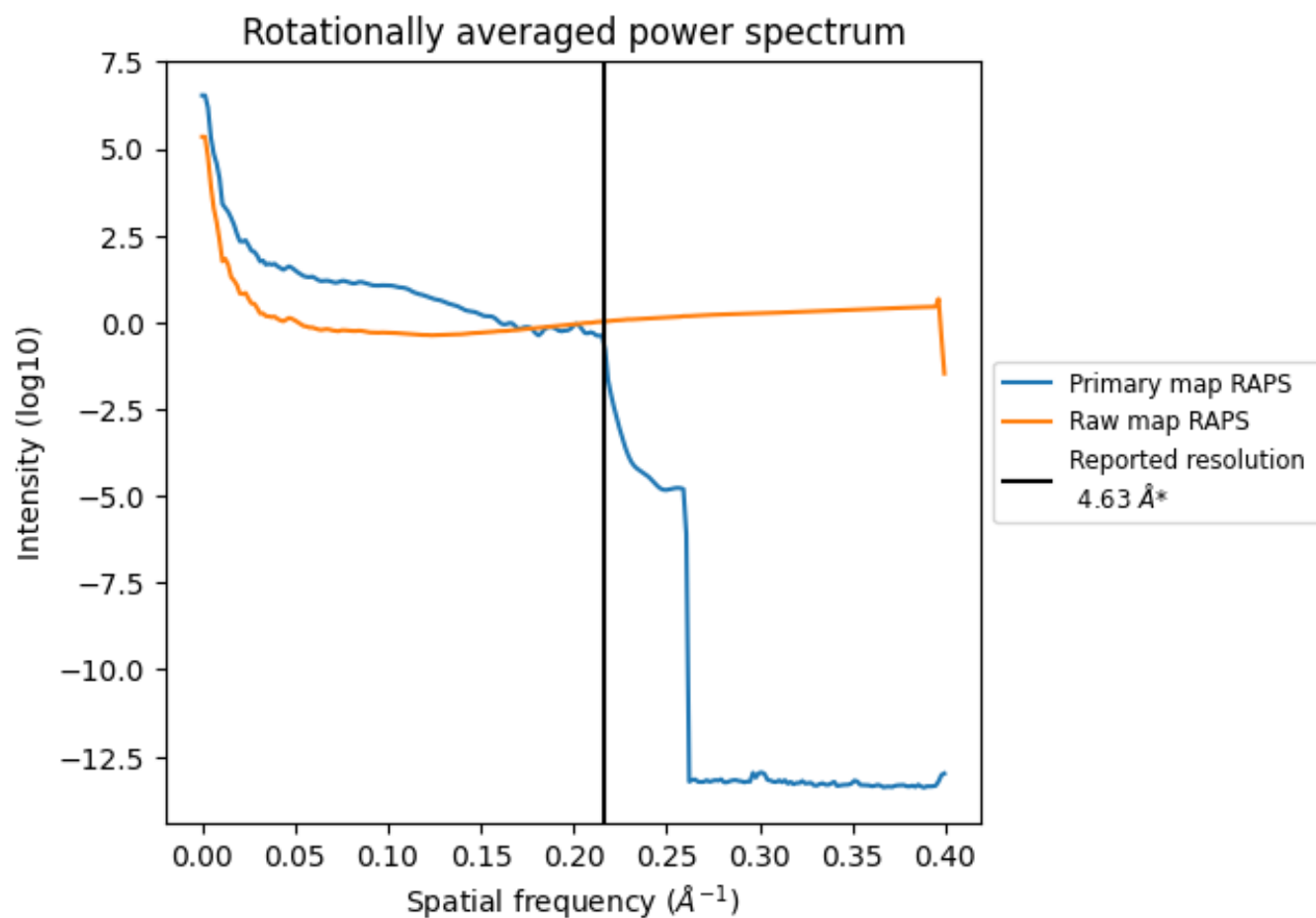
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 207 nm³; this corresponds to an approximate mass of 187 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

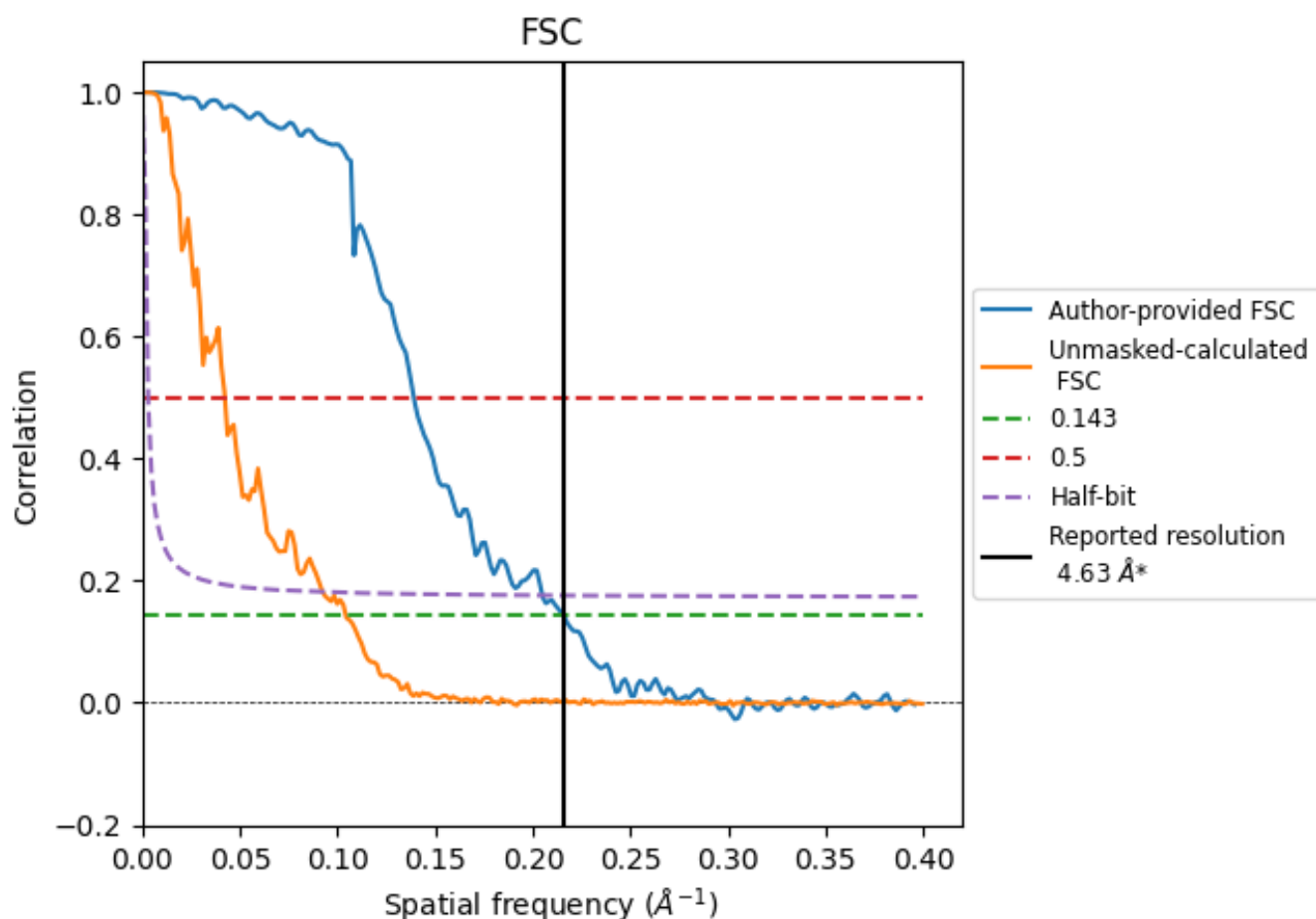


*Reported resolution corresponds to spatial frequency of 0.216 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.216 Å⁻¹

8.2 Resolution estimates [i](#)

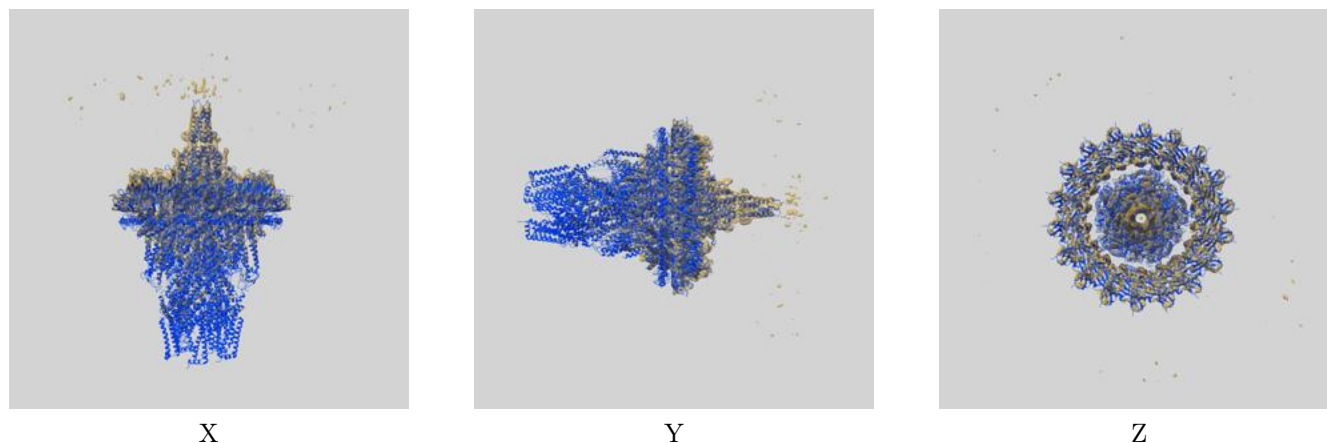
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.63	-	-
Author-provided FSC curve	4.63	7.19	4.88
Unmasked-calculated*	9.59	23.64	10.82

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 9.59 differs from the reported value 4.63 by more than 10 %

9 Map-model fit [i](#)

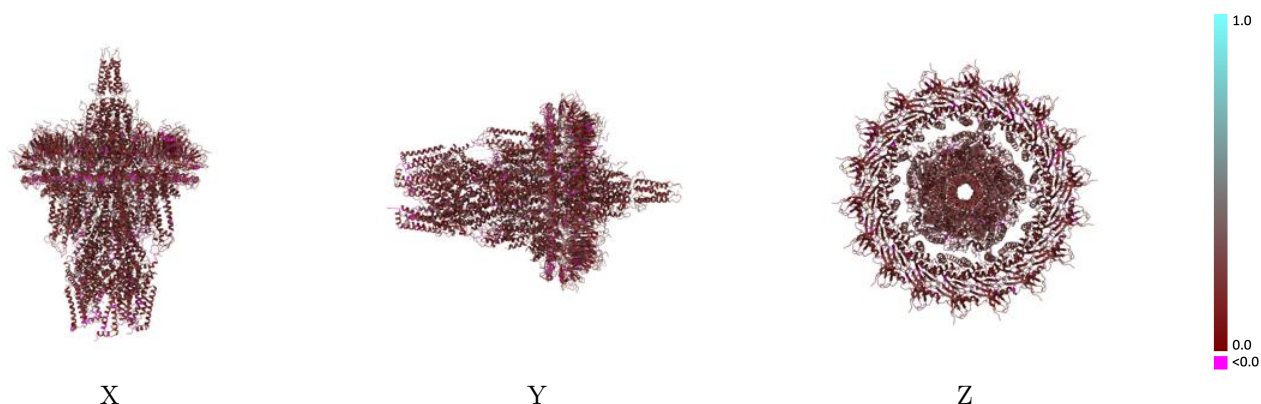
This section contains information regarding the fit between EMDB map EMD-49398 and PDB model 9NH0. Per-residue inclusion information can be found in section 3 on page 17.

9.1 Map-model overlay [i](#)



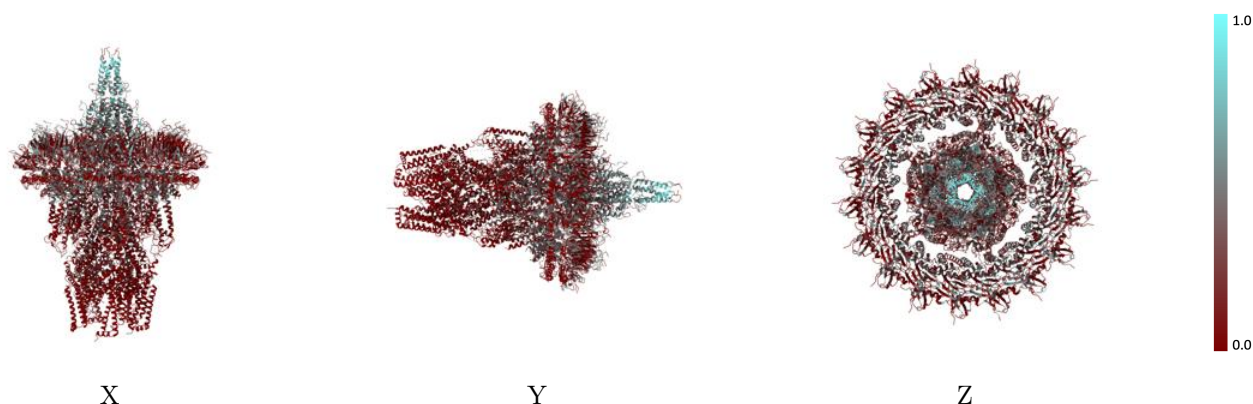
The images above show the 3D surface view of the map at the recommended contour level 0.16 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



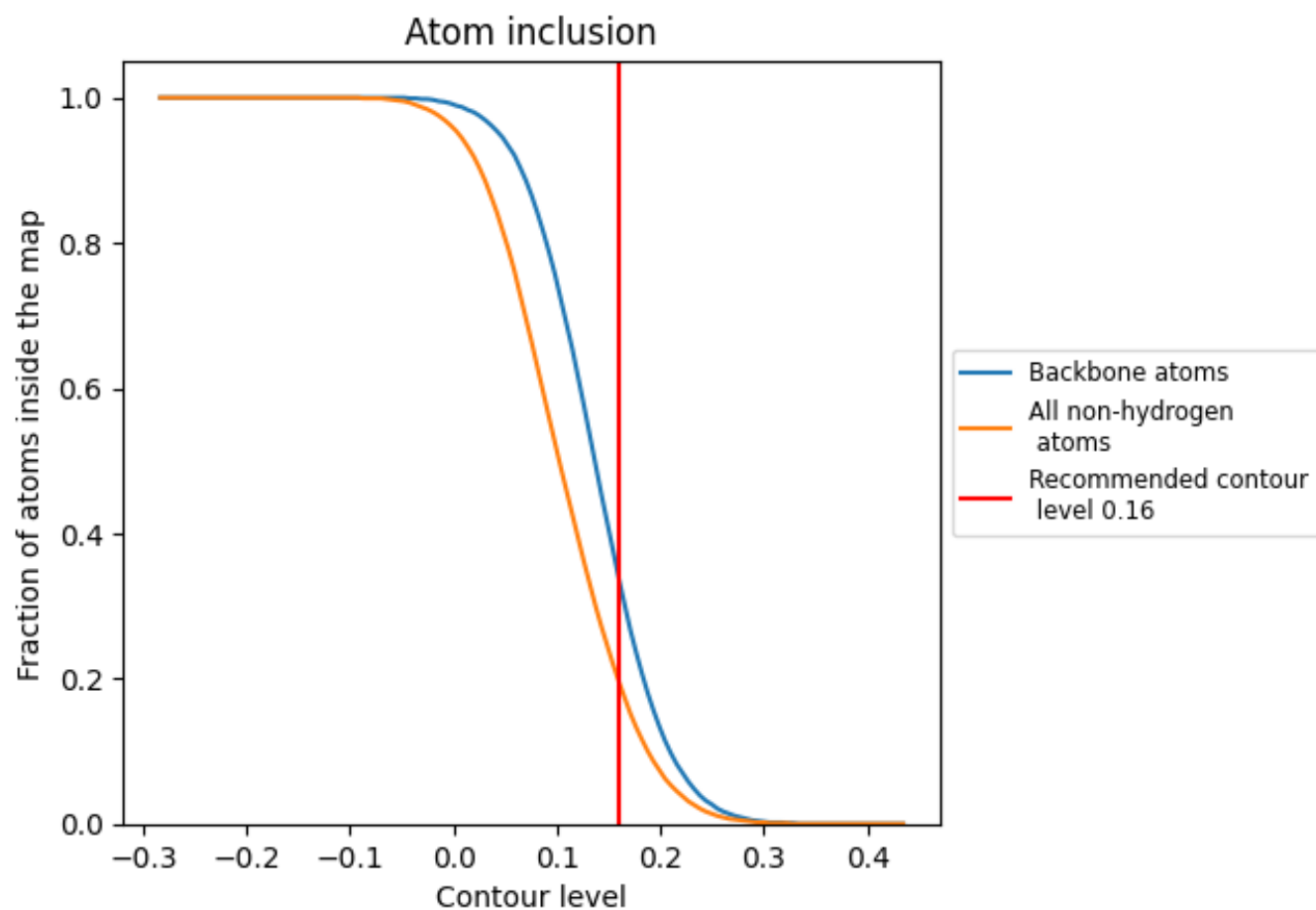
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.16).

9.4 Atom inclusion [i](#)



At the recommended contour level, 34% of all backbone atoms, 20% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.16) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.1950	 0.2010
Aa	 0.0000	 0.1650
Ab	 0.1020	 0.2220
Ac	 0.0000	 0.0490
Ad	 0.0000	 0.0010
Ae	 0.1820	 0.2010
Af	 0.2550	 0.2080
Ag	 0.0000	 0.1660
Ah	 0.0850	 0.2400
Ai	 0.0000	 0.1260
Aj	 0.0000	 0.0980
Ak	 0.1630	 0.1880
Al	 0.2810	 0.1980
Am	 0.0170	 0.1750
An	 0.0510	 0.1430
Ao	 0.0000	 0.0930
Ap	 0.0000	 0.1540
Aq	 0.1720	 0.1620
Ar	 0.2430	 0.1920
As	 0.0000	 0.1420
At	 0.0340	 0.1620
Au	 0.0000	 0.1150
Av	 0.0000	 0.0400
Aw	 0.1610	 0.1890
Ax	 0.2470	 0.1940
Ay	 0.0000	 0.2180
Az	 0.0000	 0.1730
Ba	 0.0000	 0.1710
Bb	 0.0000	 0.0750
Bc	 0.1000	 0.1690
Bd	 0.2420	 0.2050
Be	 0.0000	 0.1880
Bf	 0.0510	 0.2300
Bg	 0.0000	 0.0930
Bh	 0.0000	 0.0110



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Chain	Atom inclusion	Q-score
Bi	0.1360	0.1830
Bj	0.2520	0.2000
Bk	0.0000	0.1890
Bl	0.0000	0.1900
Bm	0.0000	0.0510
Bn	0.0000	-0.0730
Bo	0.1480	0.1810
Bp	0.2170	0.2080
Bq	0.0000	0.1350
Br	0.0170	0.2190
Bs	0.0000	0.1200
Bt	0.0000	-0.0550
Bu	0.1060	0.1760
Bv	0.2710	0.2130
Bw	0.0000	0.1840
Bx	0.1190	0.1440
By	0.0000	0.1100
Bz	0.0000	0.0110
Ca	0.1500	0.1780
Cb	0.2840	0.2030
Cc	0.0000	0.1760
Cd	0.0340	0.2270
Ce	0.0000	0.1640
Cf	0.0000	0.0570
Cg	0.1290	0.1830
Ch	0.2440	0.2080
Ci	0.0000	0.1620
Cj	0.0000	0.2090
Ck	0.0000	0.1040
Cl	0.0000	0.0000
Cm	0.1440	0.1950
Cn	0.2430	0.2060
Co	0.0000	0.2150
Cp	0.0000	0.1820
Cq	0.0000	0.1010
Cr	0.0000	0.0150
Cs	0.1840	0.1950
Ct	0.2650	0.2070
Cu	0.0000	0.1530
Cv	0.0000	0.0810
Cw	0.0000	0.1330
Cx	0.0000	0.2220

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Chain	Atom inclusion	Q-score
Cy	 0.1590	 0.2020
Cz	 0.2540	 0.1970
Da	 0.0170	 0.1990
Db	 0.0340	 0.1430
Dc	 0.0000	 0.1050
Dd	 0.0000	 0.0980
De	 0.1440	 0.1760
Df	 0.2800	 0.2120
Dg	 0.0000	 0.1630
Dh	 0.0510	 0.1860
Di	 0.0000	 0.1560
Dj	 0.0000	 -0.0640
Dk	 0.1400	 0.2010
Dl	 0.3170	 0.2130
Dm	 0.0000	 0.1880
Dn	 0.0510	 0.2040
Do	 0.0000	 0.1220
Dp	 0.0000	 0.0190
Dq	 0.1780	 0.2090
Dr	 0.3140	 0.2180
Ds	 0.0000	 0.1690
Dt	 0.0340	 0.2350
Du	 0.0000	 0.0600
Dv	 0.0000	 0.0040
Dw	 0.1570	 0.1980
Dx	 0.2860	 0.2140
Dy	 0.0090	 0.1720
Dz	 0.0510	 0.2220
Ea	 0.0000	 0.0810
Eb	 0.0000	 0.0330
Ec	 0.1630	 0.1890
Ed	 0.3060	 0.2140
Ee	 0.3820	 0.2380
Ef	 0.2420	 0.2250
Eg	 0.3160	 0.2360
Eh	 0.2420	 0.2220
Ei	 0.2620	 0.1950
Ej	 0.2610	 0.2150
Ek	 0.3530	 0.2600
El	 0.4410	 0.2450
Em	 0.2930	 0.2330
En	 0.4410	 0.2370

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Chain	Atom inclusion	Q-score
Eo	 0.3460	 0.2380
Ep	 0.3570	 0.2350
Eq	 0.3080	 0.2110
Er	 0.3310	 0.2280
Es	 0.2450	 0.2300
Et	 0.3110	 0.2280
Eu	 0.2330	 0.2250
Ev	 0.4520	 0.2440
Ew	 0.3370	 0.2190
Ex	 0.3450	 0.2180
Ey	 0.3480	 0.2260
Ez	 0.3470	 0.2230
Fa	 0.3440	 0.2270
Fb	 0.1150	 0.1980
Fc	 0.0960	 0.1970
Fd	 0.1050	 0.1970
Fe	 0.1070	 0.1970
Ff	 0.1080	 0.1980
Fg	 0.0000	 0.1920
Fh	 0.0030	 0.1620
Fi	 0.0000	 0.1850
Fj	 0.0000	 0.1730
Fk	 0.0000	 0.1810