Full wwPDB EM Validation Report ⓘ

Nov 4, 2025 – 11:41 AM EST

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:

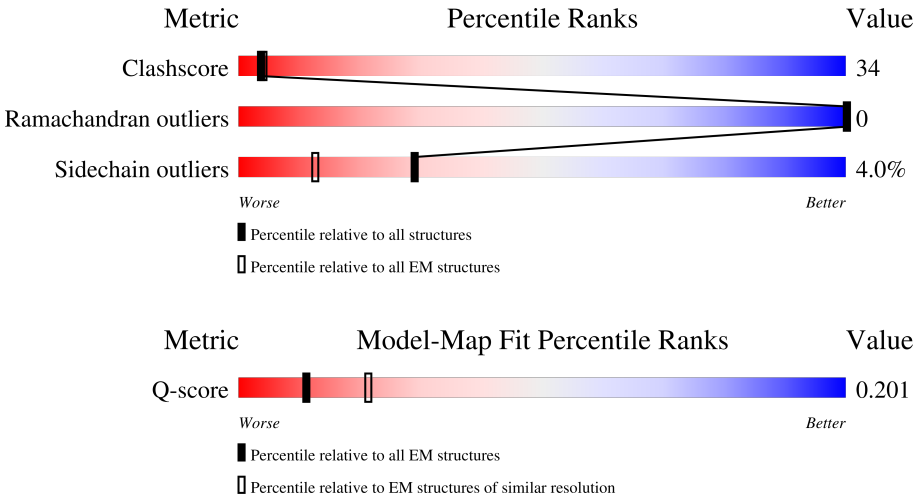
EMDB validation analysis	:	0.0.1.dev129
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.46

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 4.63 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	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
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 <=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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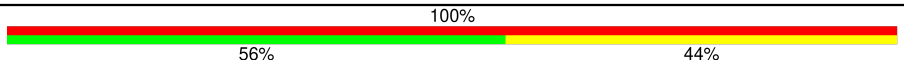
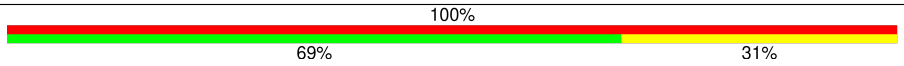
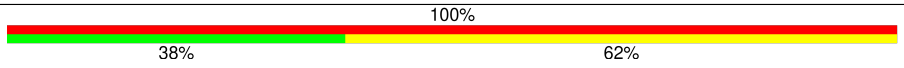
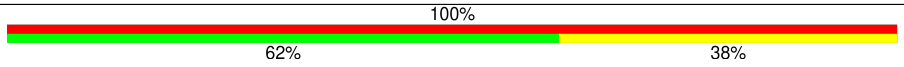
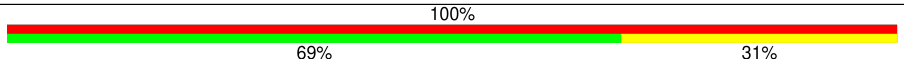
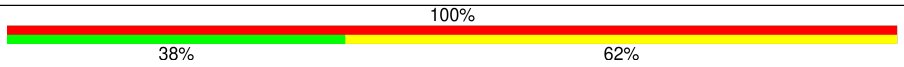
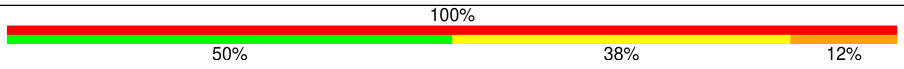
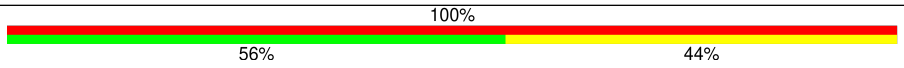
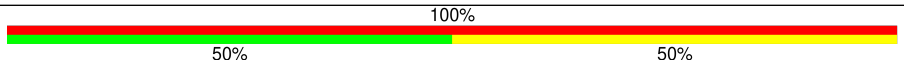
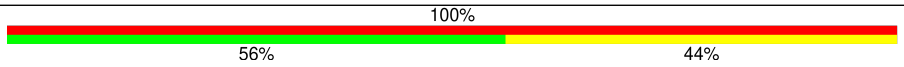
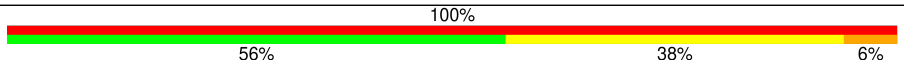
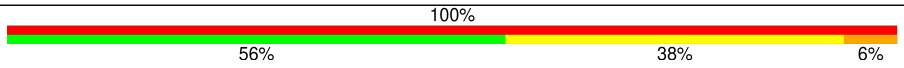
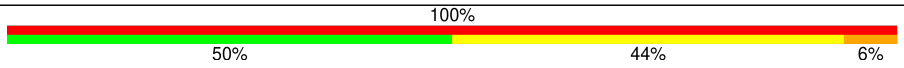
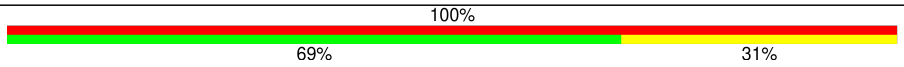
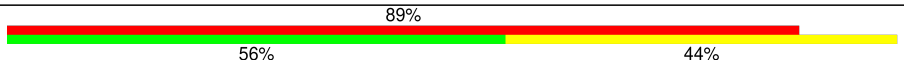
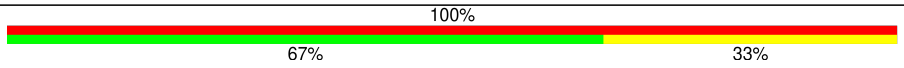
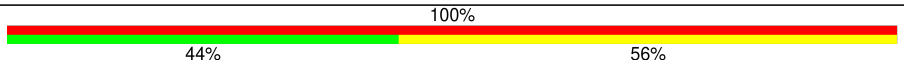
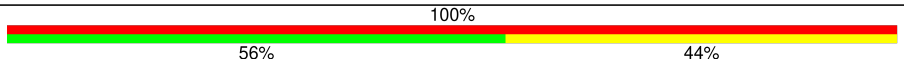
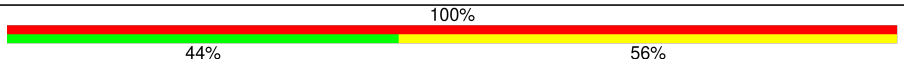
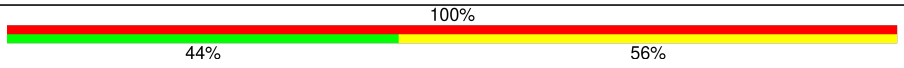
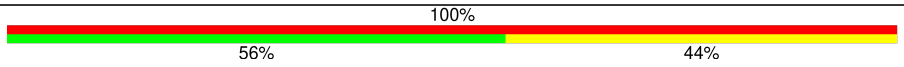
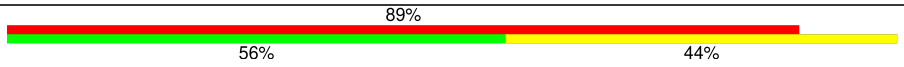
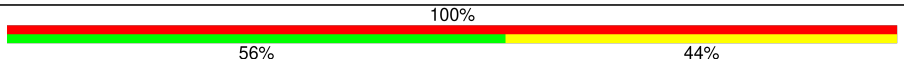
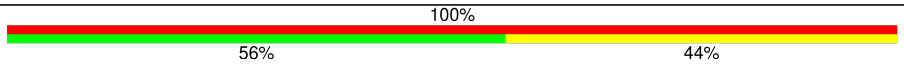
Mol	Chain	Length	Quality of chain
1	Ay	16	
1	Be	16	
1	Bk	16	
1	Bq	16	
1	Bw	16	
1	Cc	16	
1	Ci	16	
1	Co	16	
1	Cu	16	
1	Da	16	
1	Dg	16	
1	Dm	16	
1	Ds	16	
1	Dy	16	
2	Ab	9	
2	Ah	9	
2	An	9	
2	At	9	
2	Az	9	
2	Bf	9	
2	Bl	9	
2	Br	9	
2	Bx	9	
2	Cd	9	
2	Cj	9	

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Mol	Chain	Length	Quality of chain
2	Cp	9	100% 44% 44% 11%
2	Cv	9	100% 33% 67%
2	Db	9	100% 56% 44%
2	Dh	9	89% 44% 56%
2	Dn	9	100% 56% 44%
2	Dt	9	100% 56% 44%
2	Dz	9	100% 44% 56%
3	Ac	16	100% 56% 44%
3	Ai	16	100% 50% 50%
3	Ao	16	100% 62% 31% 6%
3	Au	16	100% 69% 31%
3	Ba	16	100% 50% 50%
3	Bg	16	100% 56% 44%
3	Bm	16	100% 50% 50%
3	Bs	16	100% 38% 62%
3	By	16	100% 69% 31%
3	Ce	16	100% 56% 44%
3	Ck	16	100% 56% 44%
3	Cq	16	100% 62% 38%
3	Cw	16	100% 50% 50%
3	Dc	16	100% 69% 31%
3	Di	16	100% 56% 44%
3	Do	16	100% 44% 50% 6%
3	Du	16	100% 50% 50%
3	Ea	16	100% 50% 50%

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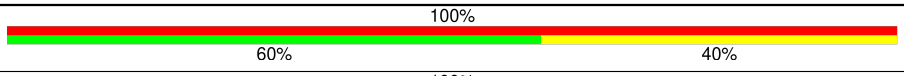
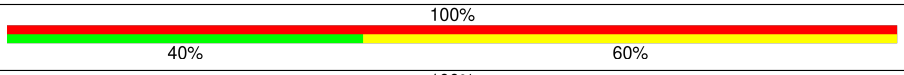
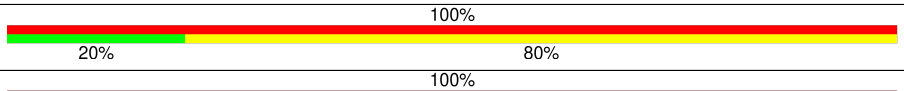
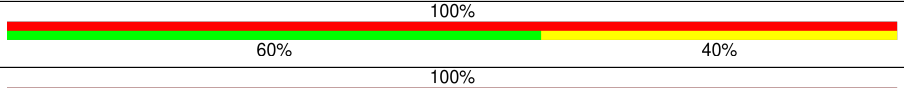
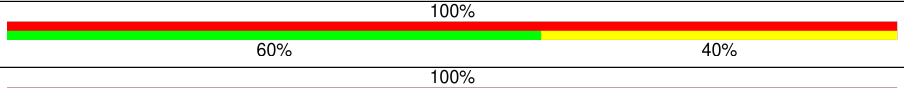
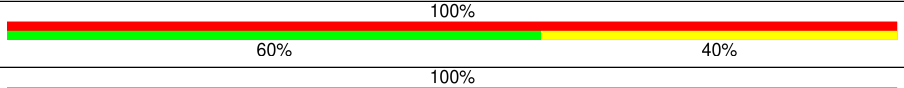
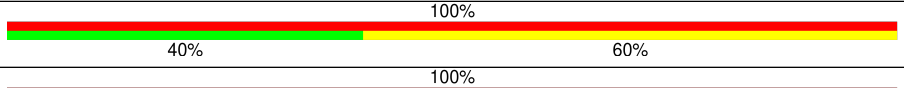
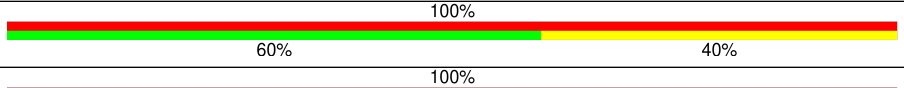
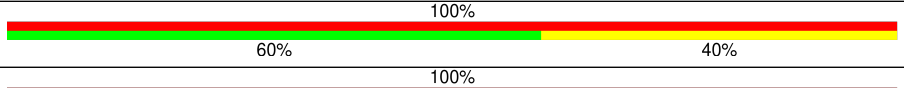
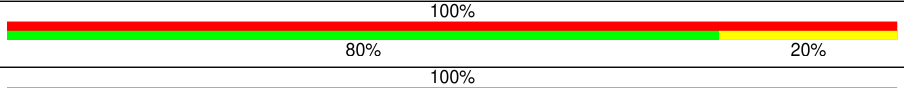
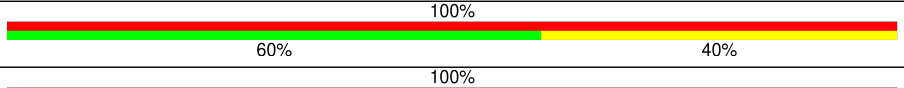
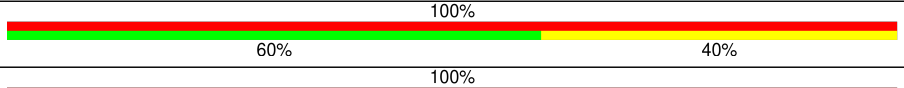
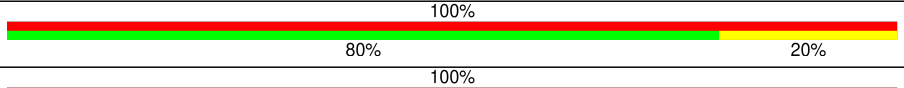
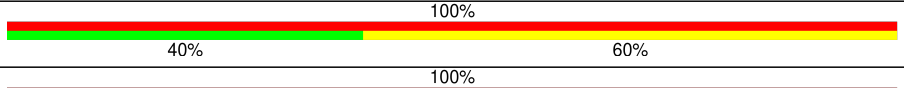
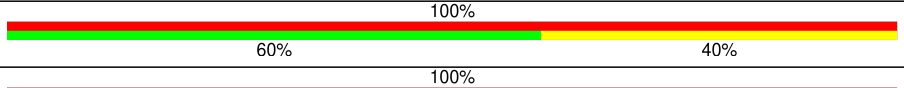
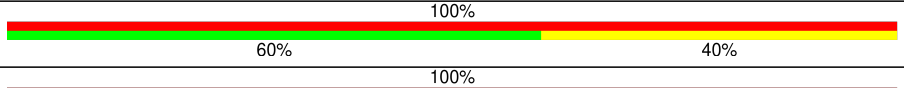
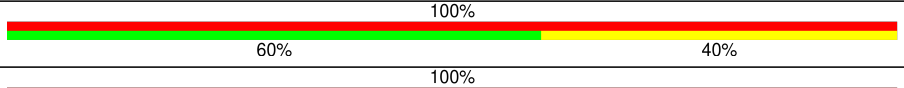
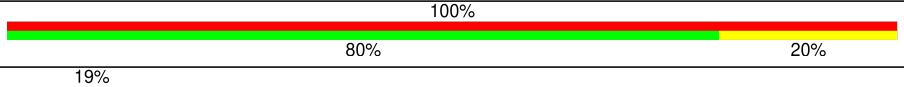
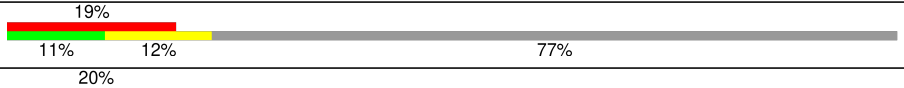
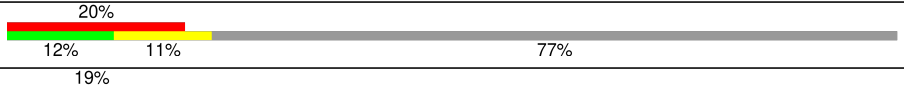
Mol	Chain	Length	Quality of chain
4	Ad	5	
4	Aj	5	
4	Ap	5	
4	Av	5	
4	Bb	5	
4	Bh	5	
4	Bn	5	
4	Bt	5	
4	Bz	5	
4	Cf	5	
4	Cl	5	
4	Cr	5	
4	Cx	5	
4	Dd	5	
4	Dj	5	
4	Dp	5	
4	Dv	5	
4	Eb	5	
5	Ae	269	
5	Ak	269	
5	Aq	269	
5	Aw	269	
5	Bc	269	
5	Bi	269	
5	Bo	269	

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Mol	Chain	Length	Quality of chain
5	Bu	269	22% 11% 12% 77%
5	Ca	269	20% 12% 12% 77%
5	Cg	269	21% 12% 10% 77%
5	Cm	269	21% 14% 8% 77%
5	Cs	269	20% 14% 9% 77%
5	Cy	269	20% 12% 12% 77%
5	De	269	20% 11% 12% 77%
5	Dk	269	21% 9% 14% 77%
5	Dq	269	21% 10% 13% 77%
5	Dw	269	19% 14% 9% 77%
5	Ec	269	20% 15% 8% 77%
6	Af	361	31% 21% 20% 56%
6	Al	361	30% 19% 24% 56%
6	Ar	361	32% 20% 23% 56%
6	Ax	361	32% 18% 24% 56%
6	Bd	361	34% 18% 26% 56%
6	Bj	361	32% 18% 25% 56%
6	Bp	361	35% 17% 25% 56%
6	Bv	361	31% 19% 24% 56%
6	Cb	361	31% 19% 24% 56%
6	Ch	361	32% 20% 22% 56%
6	Cn	361	32% 20% 22% 56%
6	Ct	361	31% 21% 23% 56%
6	Cz	361	31% 17% 25% 56%
6	Df	361	30% 19% 23% 56%

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Mol	Chain	Length	Quality of chain
6	Dl	361	29% 19% 23% 56%
6	Dr	361	28% 17% 26% 56%
6	Dx	361	29% 18% 24% 56%
6	Ed	361	29% 17% 25% 56%
7	Ee	1048	97%
7	Ef	1048	94%
7	Eg	1048	97%
7	Eh	1048	95%
7	Ei	1048	95%
7	Ej	1048	94%
7	Ek	1048	97%
7	El	1048	97%
7	Em	1048	96%
7	En	1048	97%
7	Eo	1048	97%
7	Ep	1048	97%
7	Eq	1048	95%
7	Er	1048	97%
7	Es	1048	95%
7	Et	1048	95%
7	Eu	1048	94%
7	Ev	1048	97%
7	Fg	1048	96%
7	Fh	1048	96%
7	Fi	1048	96%

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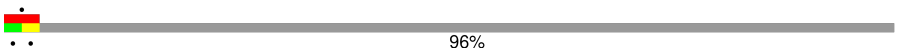
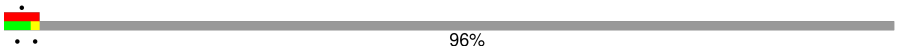
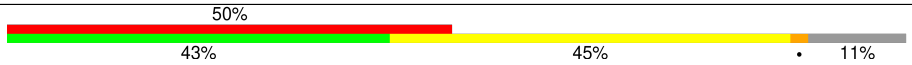
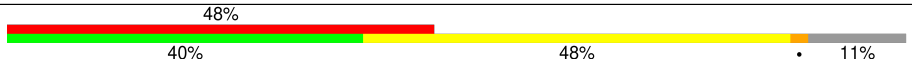
Mol	Chain	Length	Quality of chain
7	Fj	1048	
7	Fk	1048	
8	Ew	466	
8	Ex	466	
8	Ey	466	
8	Ez	466	
8	Fa	466	
9	Fb	1048	
9	Fc	1048	
9	Fd	1048	
9	Fe	1048	
9	Ff	1048	

2 Entry composition

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

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

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

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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.

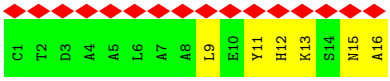
Mol	Chain	Residues	Atoms					AltConf	Trace
9	Fb	857	Total	C	N	O	S	0	0
			6560	4256	1051	1202	51		
9	Fc	857	Total	C	N	O	S	0	0
			6560	4256	1051	1202	51		
9	Fd	857	Total	C	N	O	S	0	0
			6560	4256	1051	1202	51		
9	Fe	857	Total	C	N	O	S	0	0
			6560	4256	1051	1202	51		
9	Ff	857	Total	C	N	O	S	0	0
			6560	4256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

3 Residue-property plots (i)

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

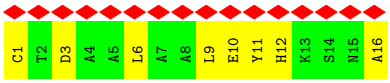
- Molecule 1: unknown peptide E

Chain Aa:



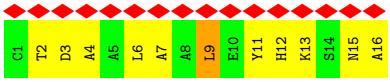
- Molecule 1: unknown peptide E

Chain Ag:



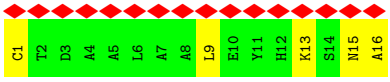
- Molecule 1: unknown peptide E

Chain Am:



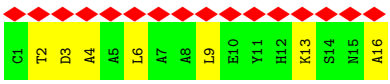
- Molecule 1: unknown peptide E

Chain As:



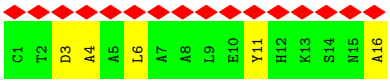
- Molecule 1: unknown peptide E

Chain Ay:



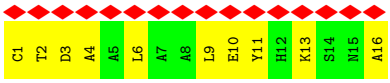
- Molecule 1: unknown peptide E

Chain Be:



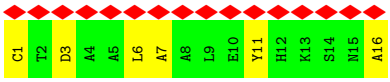
• Molecule 1: unknown peptide E

Chain Bk:



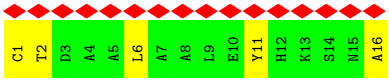
• Molecule 1: unknown peptide E

Chain Bq:



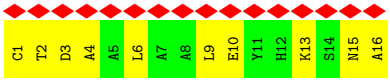
• Molecule 1: unknown peptide E

Chain Bw:



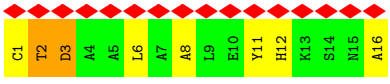
• Molecule 1: unknown peptide E

Chain Cc:



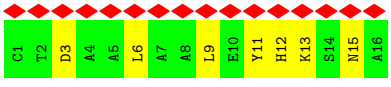
• Molecule 1: unknown peptide E

Chain Ci:



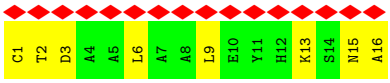
• Molecule 1: unknown peptide E

Chain Co:



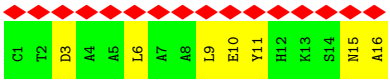
• Molecule 1: unknown peptide E

Chain Cu:



• Molecule 1: unknown peptide E

Chain Da:

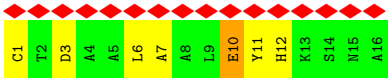


• Molecule 1: unknown peptide E

Chain Dg:

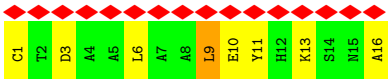
• Molecule 1: unknown peptide E

Chain Dm:



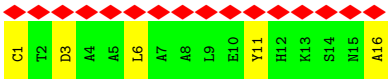
• Molecule 1: unknown peptide E

Chain Ds:



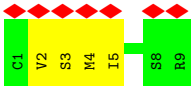
• Molecule 1: unknown peptide E

Chain Dy:



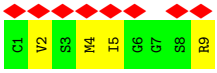
• Molecule 2: unknown peptide F

Chain Ab:



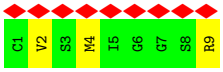
• Molecule 2: unknown peptide F

Chain Ah:



• Molecule 2: unknown peptide F

Chain An:



• Molecule 2: unknown peptide F

Chain At:

• Molecule 2: unknown peptide F

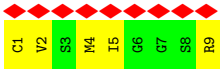
Chain Az:

• Molecule 2: unknown peptide F

Chain Bf:

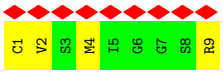
• Molecule 2: unknown peptide F

Chain Bl:



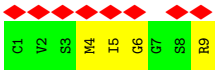
• Molecule 2: unknown peptide F

Chain Br:



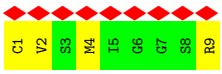
• Molecule 2: unknown peptide F

Chain Bx:



• Molecule 2: unknown peptide F

Chain Cd:

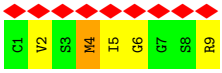


• Molecule 2: unknown peptide F

Chain Cj:

• Molecule 2: unknown peptide F

Chain Cp:

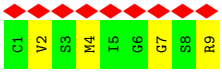


• Molecule 2: unknown peptide F

Chain Cv:

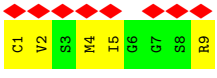
• Molecule 2: unknown peptide F

Chain Db:



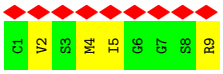
• Molecule 2: unknown peptide F

Chain Dh:



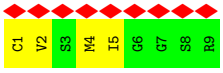
• Molecule 2: unknown peptide F

Chain Dn:



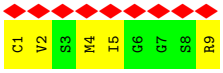
• Molecule 2: unknown peptide F

Chain Dt:



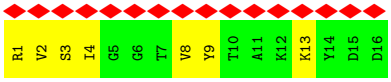
• Molecule 2: unknown peptide F

Chain Dz:



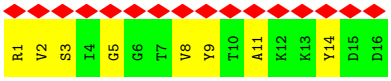
• Molecule 3: unknown peptide G

Chain Ac:



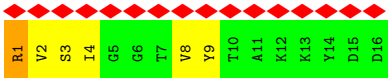
• Molecule 3: unknown peptide G

Chain Ai:



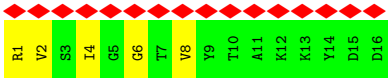
• Molecule 3: unknown peptide G

Chain Ao:



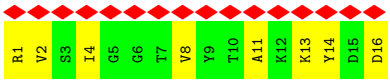
• Molecule 3: unknown peptide G

Chain Au:



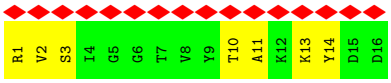
• Molecule 3: unknown peptide G

Chain Ba:



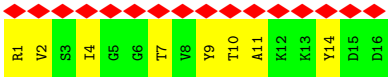
• Molecule 3: unknown peptide G

Chain Bg:



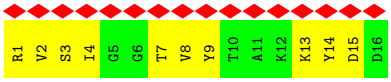
• Molecule 3: unknown peptide G

Chain Bm:



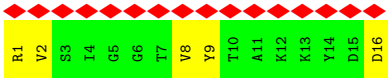
• Molecule 3: unknown peptide G

Chain Bs:



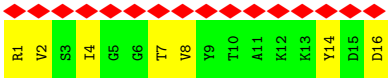
• Molecule 3: unknown peptide G

Chain By:



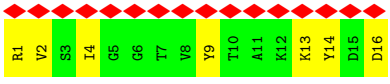
• Molecule 3: unknown peptide G

Chain Ce:



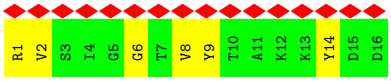
• Molecule 3: unknown peptide G

Chain Ck:



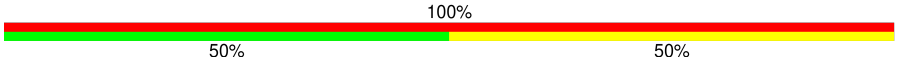
• Molecule 3: unknown peptide G

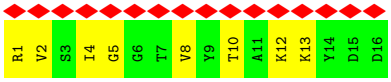
Chain Cq:



• Molecule 3: unknown peptide G

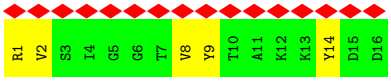
Chain Cw:





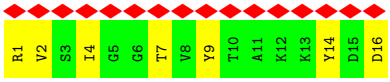
• Molecule 3: unknown peptide G

Chain Dc:



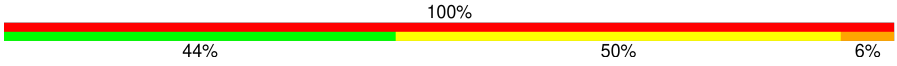
• Molecule 3: unknown peptide G

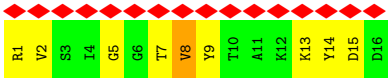
Chain Di:



• Molecule 3: unknown peptide G

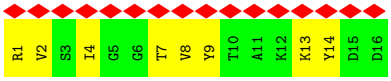
Chain Do:





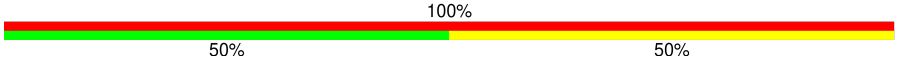
• Molecule 3: unknown peptide G

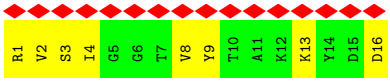
Chain Du:



• Molecule 3: unknown peptide G

Chain Ea:





• Molecule 4: unknown peptide H

Chain Ad:

• Molecule 4: unknown peptide H

Chain Aj:

• Molecule 4: unknown peptide H

Chain Ap:

• Molecule 4: unknown peptide H

Chain Av:

• Molecule 4: unknown peptide H

Chain Bb:

• Molecule 4: unknown peptide H

Chain Bh:

• Molecule 4: unknown peptide H

Chain Bn:

• Molecule 4: unknown peptide H

Chain Bt:

• Molecule 4: unknown peptide H

Chain Bz:

• Molecule 4: unknown peptide H

Chain Cf:

• Molecule 4: unknown peptide H

Chain Cl:

• Molecule 4: unknown peptide H

Chain Cr:

• Molecule 4: unknown peptide H

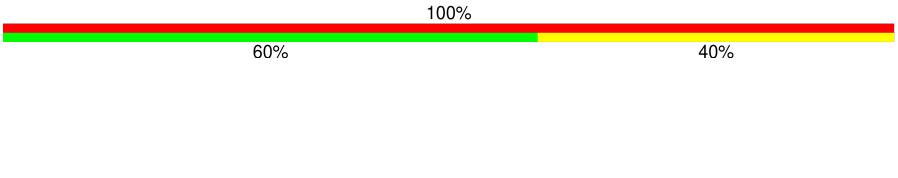
Chain Cx:

• Molecule 4: unknown peptide H

Chain Dd:

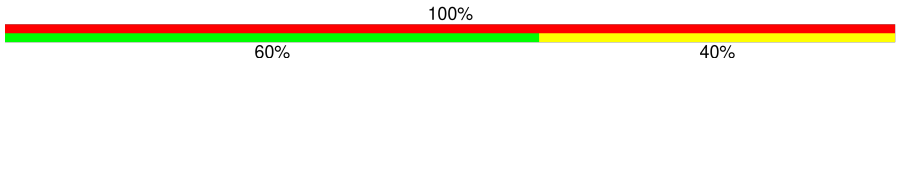
• Molecule 4: unknown peptide H

Chain Dj:



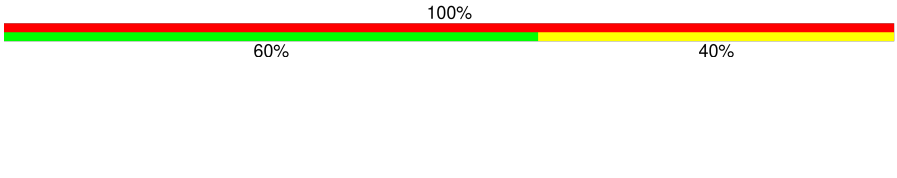
• Molecule 4: unknown peptide H

Chain Dp:



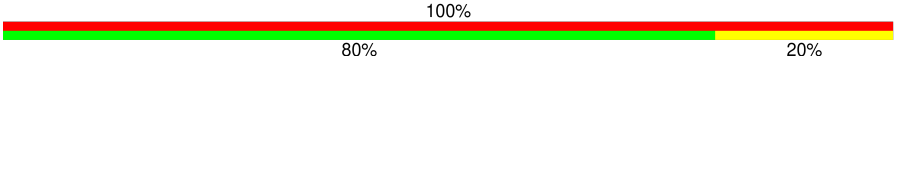
• Molecule 4: unknown peptide H

Chain Dv:



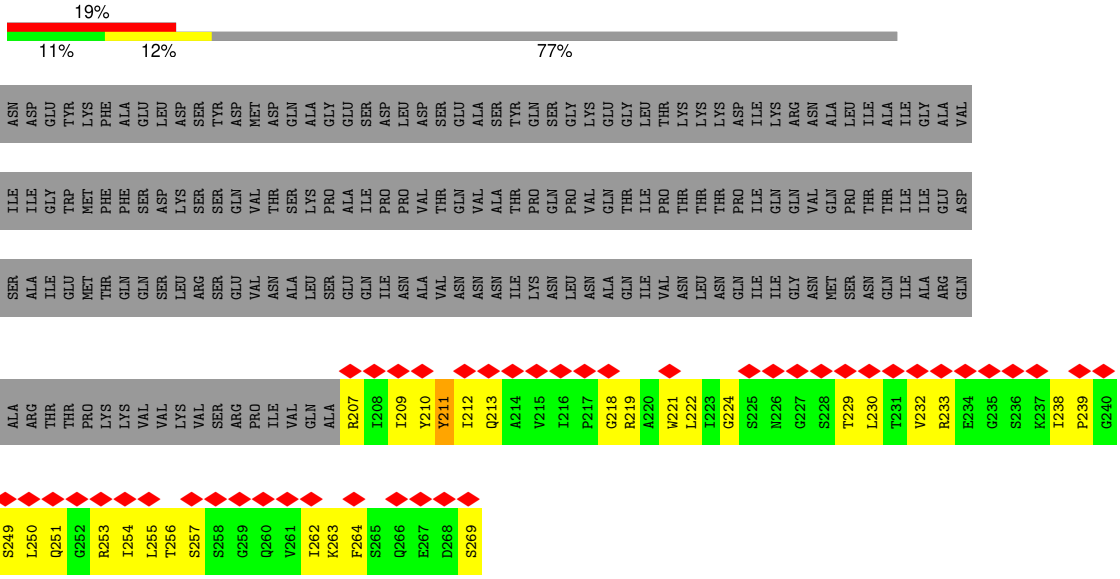
• Molecule 4: unknown peptide H

Chain Eb:



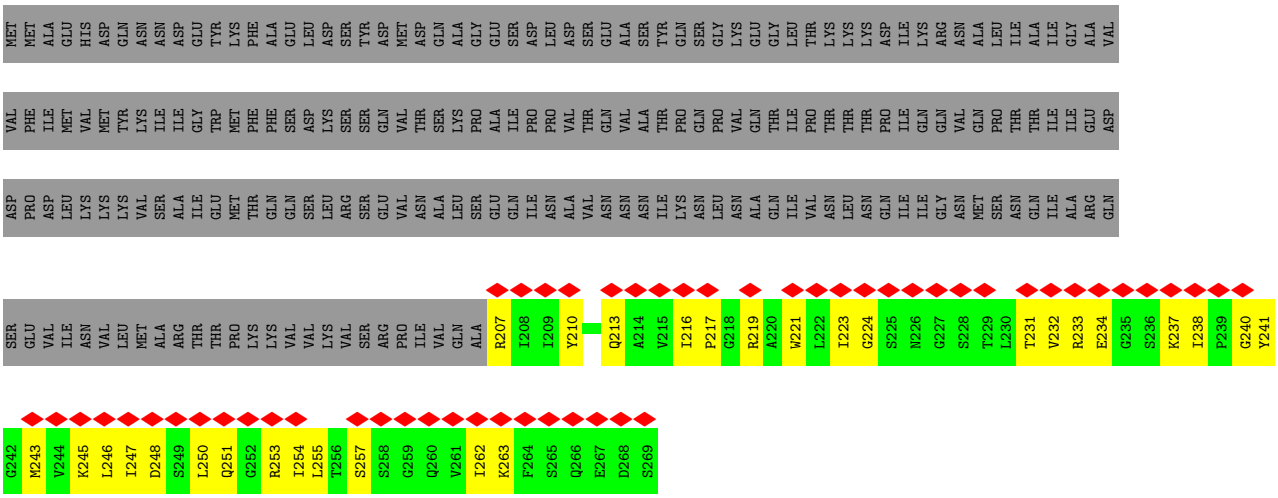
• Molecule 5: IcmG (DotF)

Chain Ae:



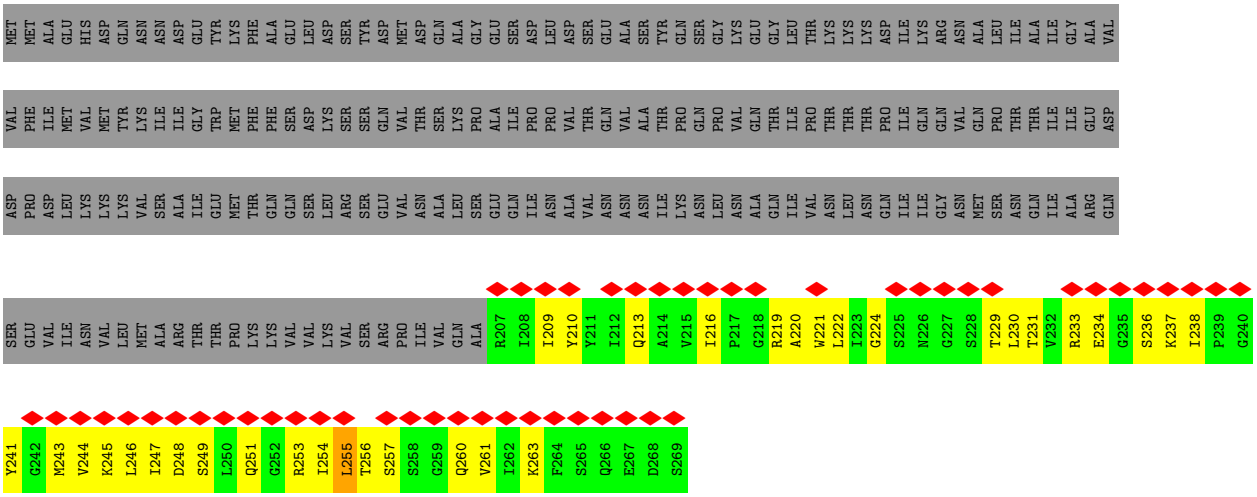
• Molecule 5: IcmG (DotF)

Chain Ak:



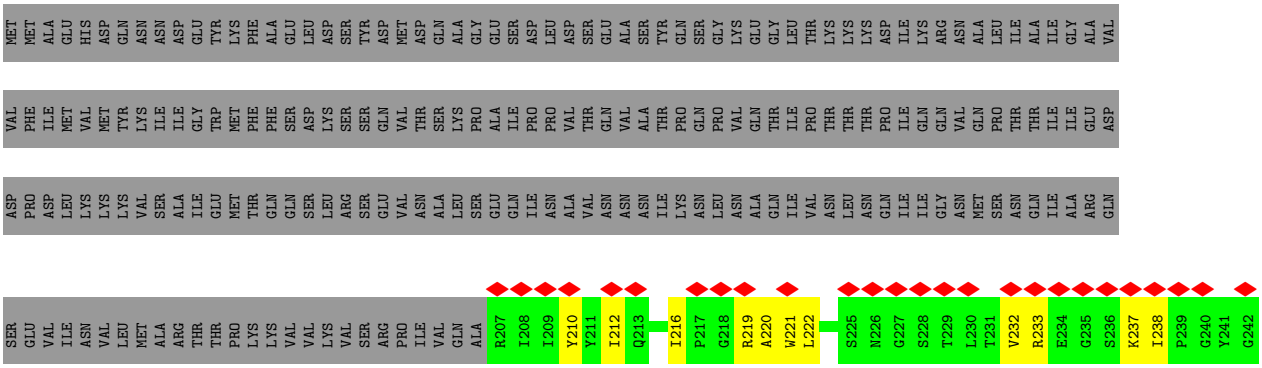
• Molecule 5: IcmG (DotF)

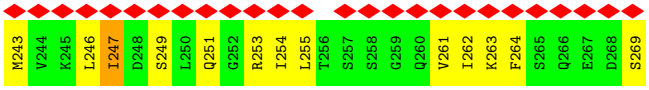
Chain Aq:



• Molecule 5: IcmG (DotF)

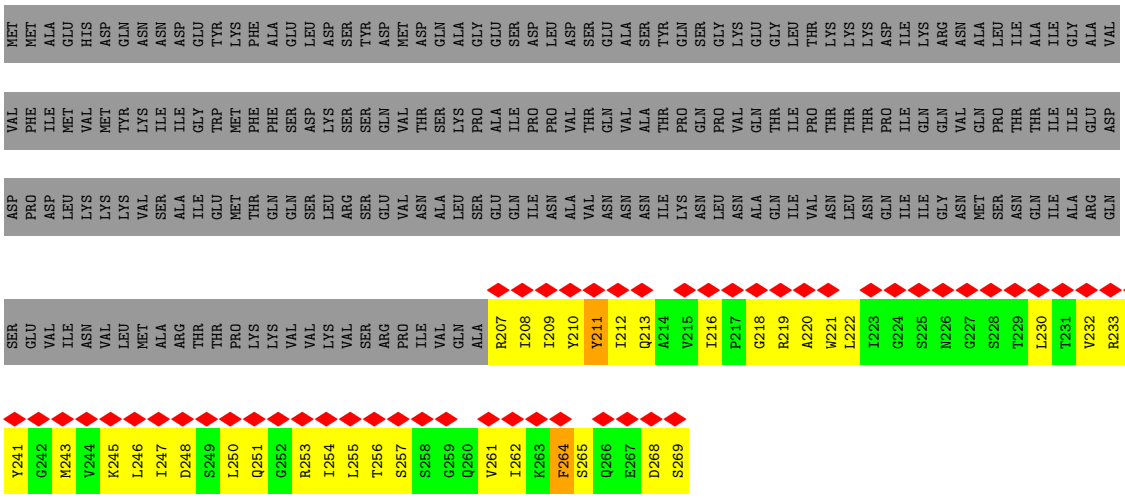
Chain Aw:





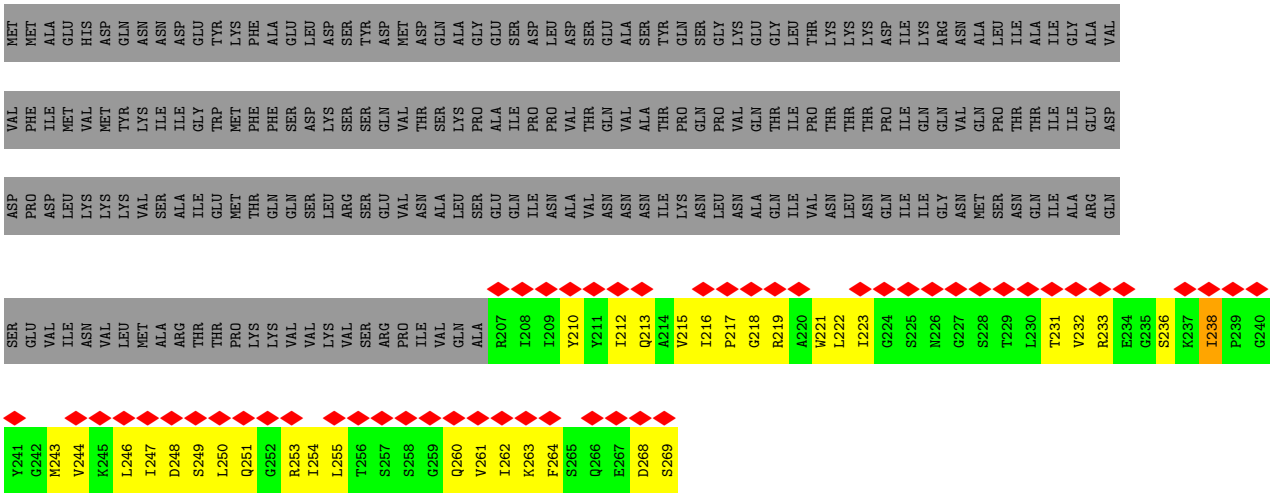
• Molecule 5: IcmG (DotF)

Chain Bc:



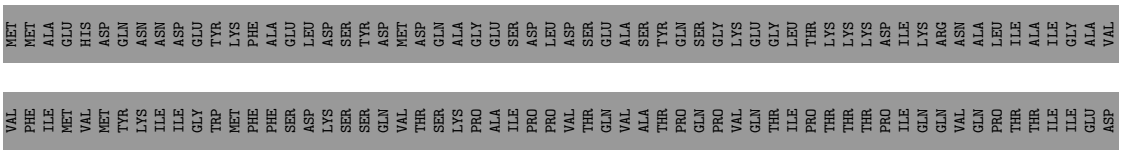
• Molecule 5: IcmG (DotF)

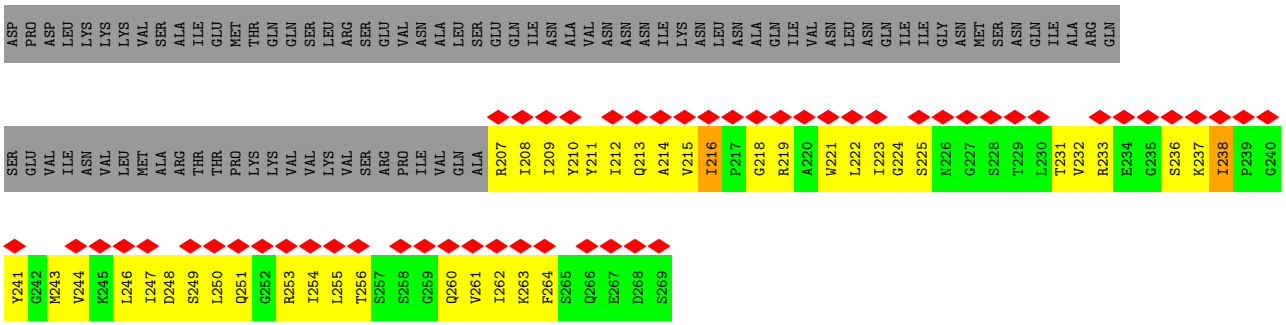
Chain Bi:



• Molecule 5: IcmG (DotF)

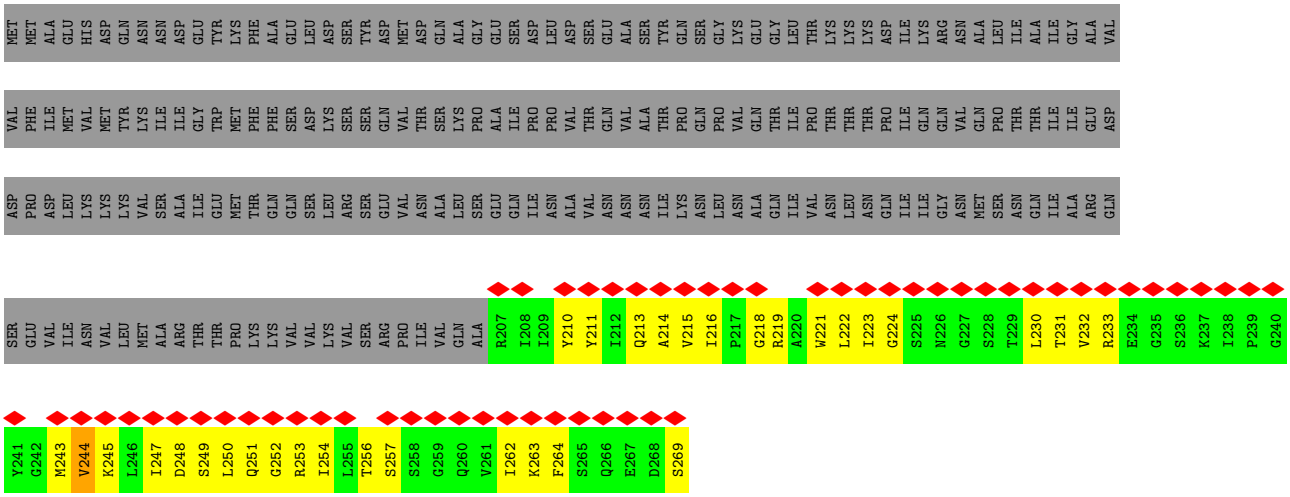
Chain Bo:





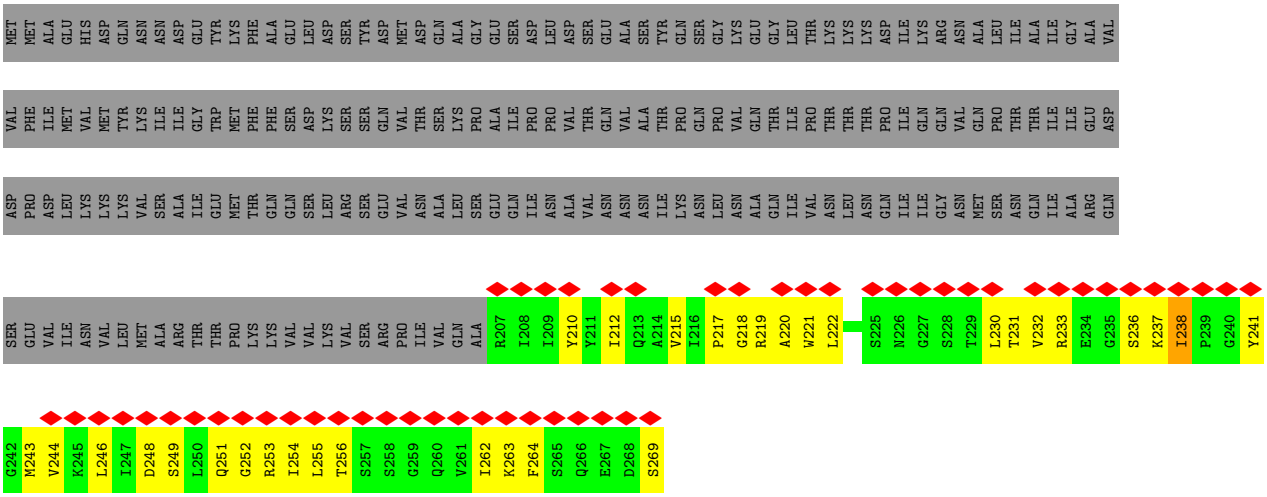
• Molecule 5: IcmG (DotF)

Chain Bu:



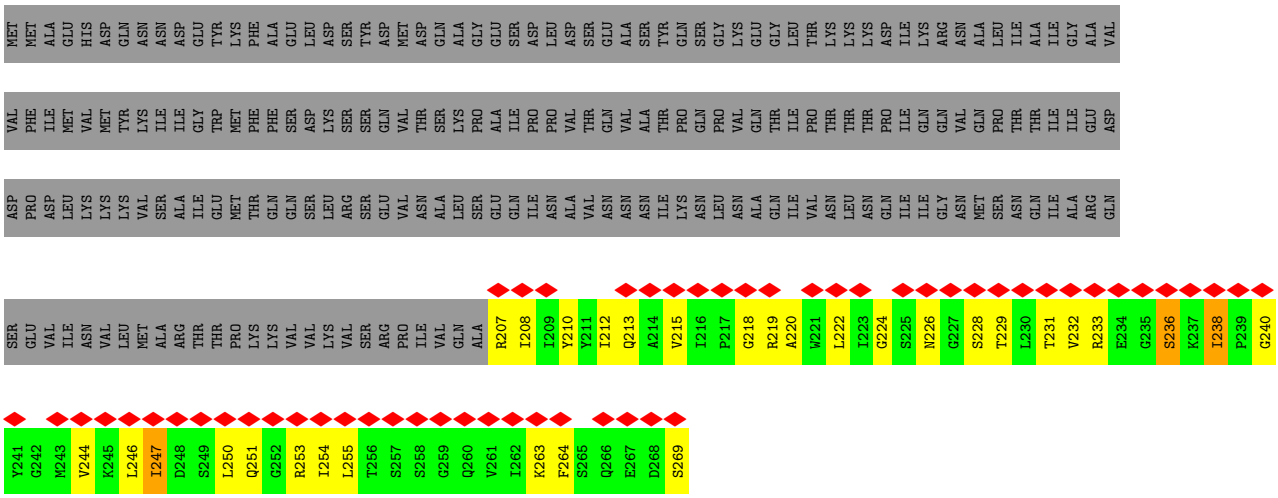
• Molecule 5: IcmG (DotF)

Chain Ca:



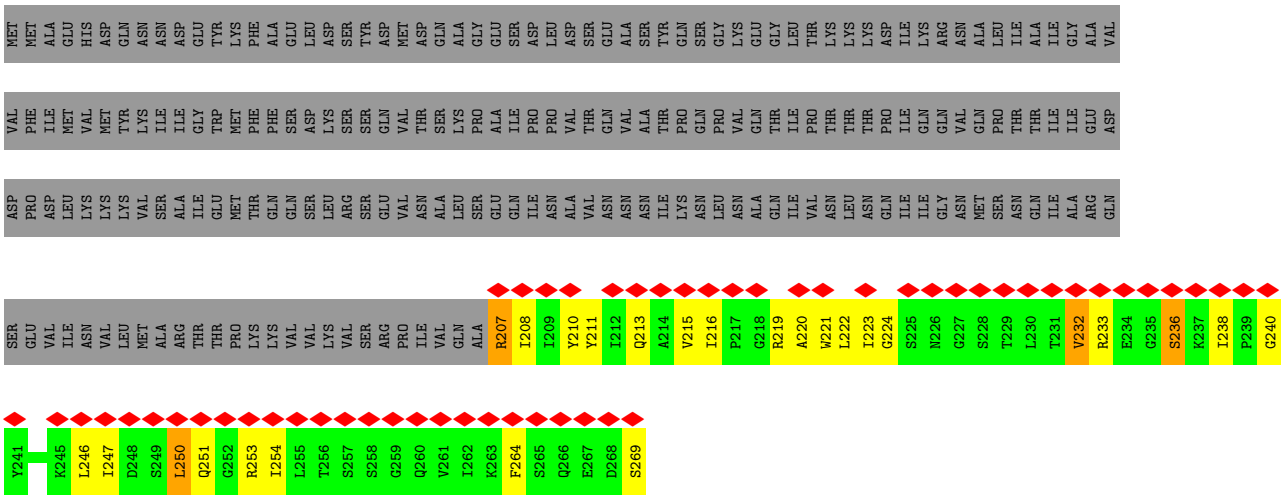
• Molecule 5: IcmG (DotF)

Chain Cg:



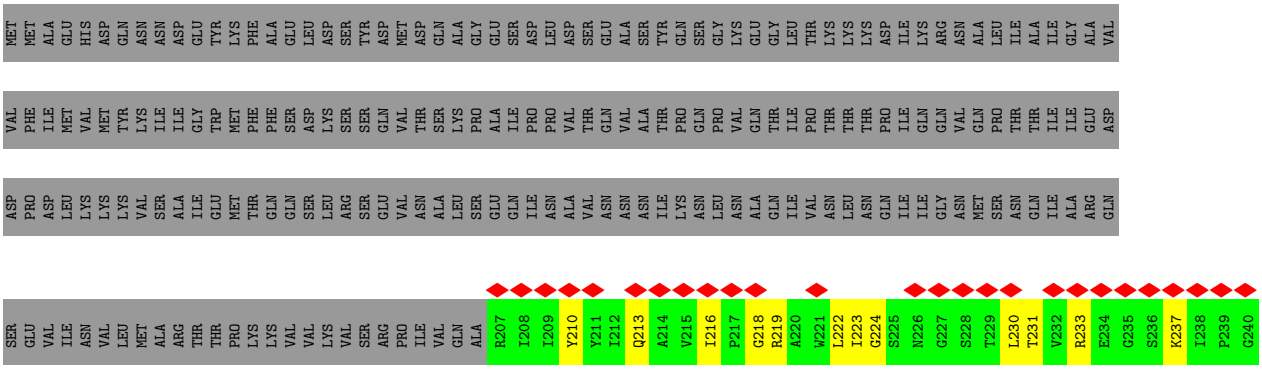
• Molecule 5: IcmG (DotF)

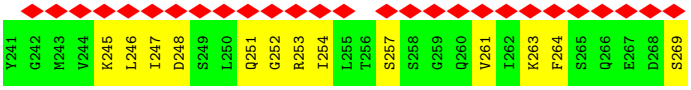
Chain Cm:



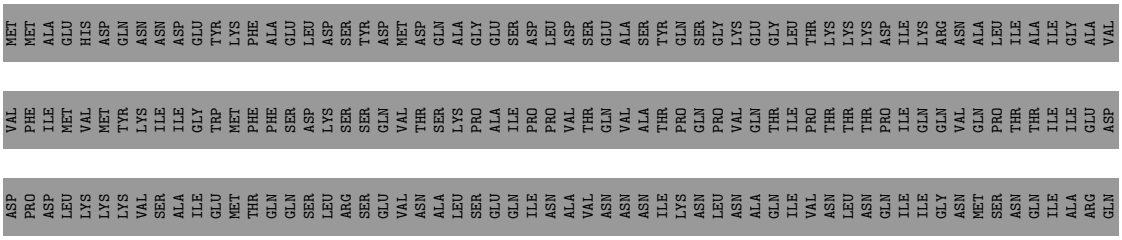
• Molecule 5: IcmG (DotF)

Chain Cs:

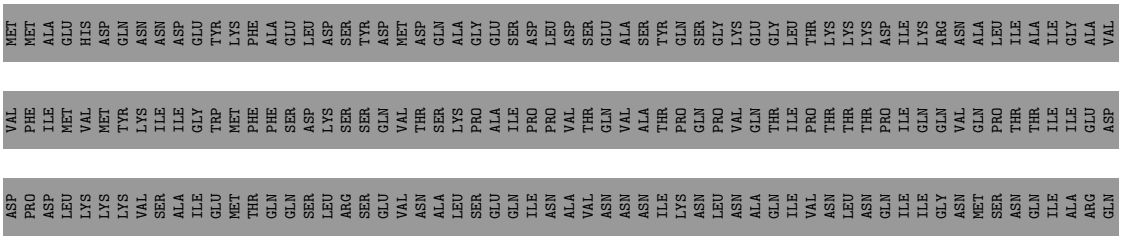




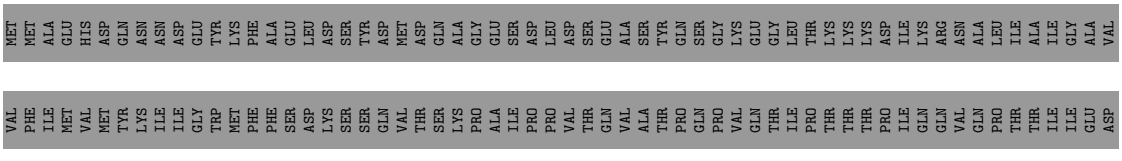
• Molecule 5: IcmG (DotF)

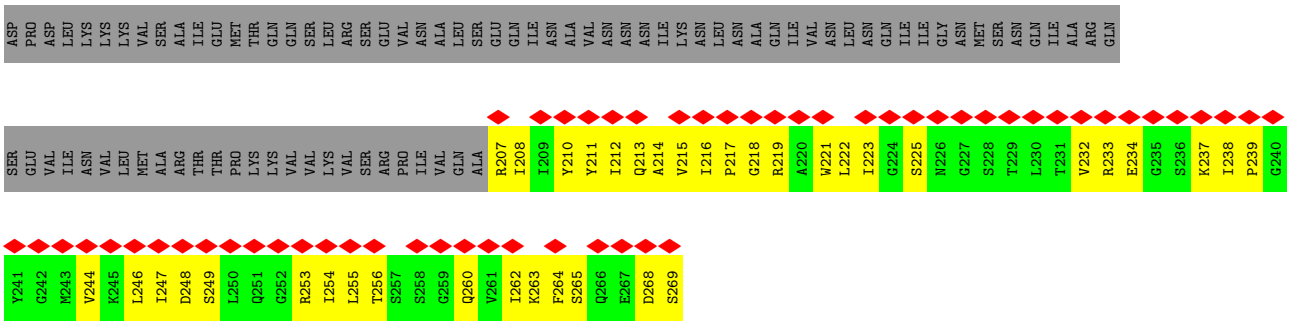


• Molecule 5: IcmG (DotF)



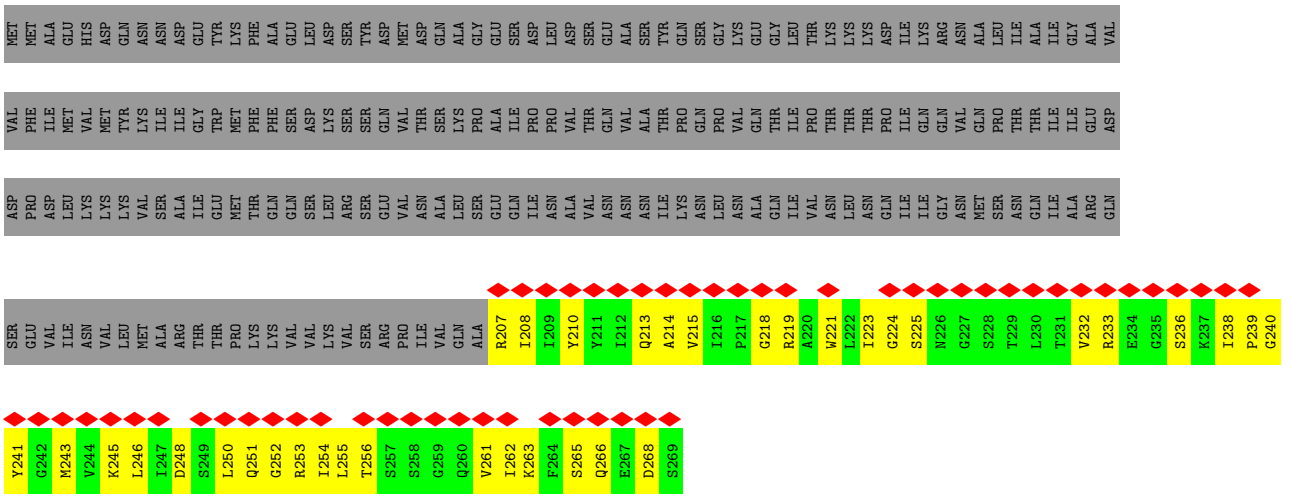
• Molecule 5: IcmG (DotF)





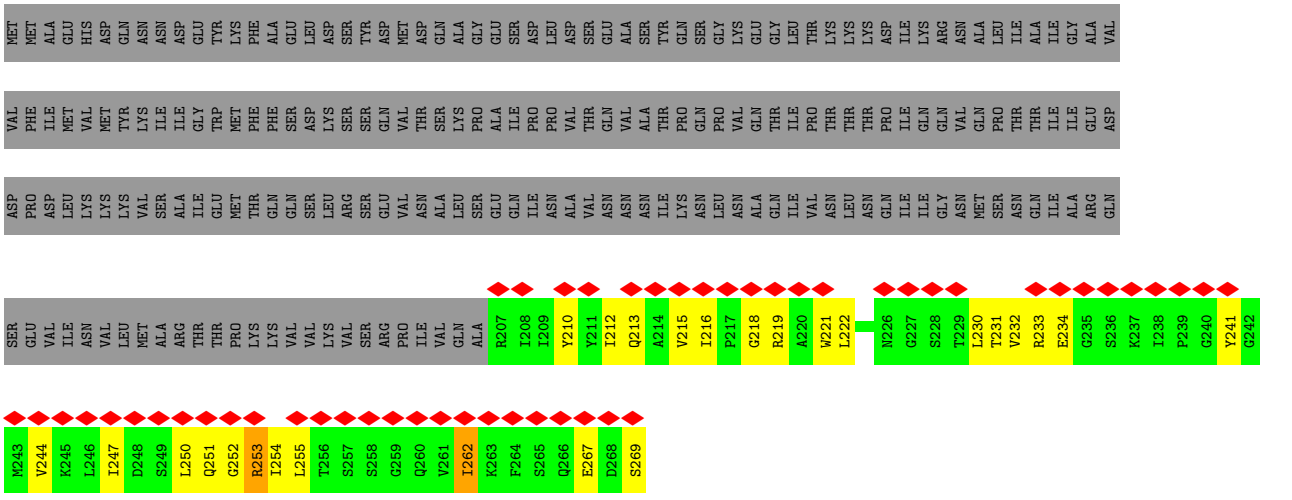
• Molecule 5: IcmG (DotF)

Chain Dq:



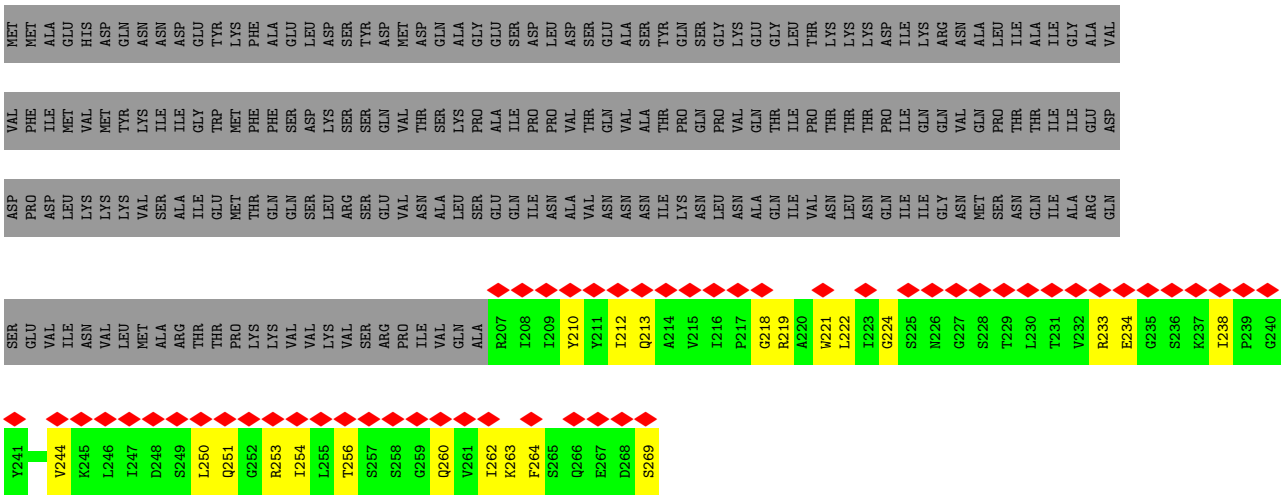
• Molecule 5: IcmG (DotF)

Chain Dw:



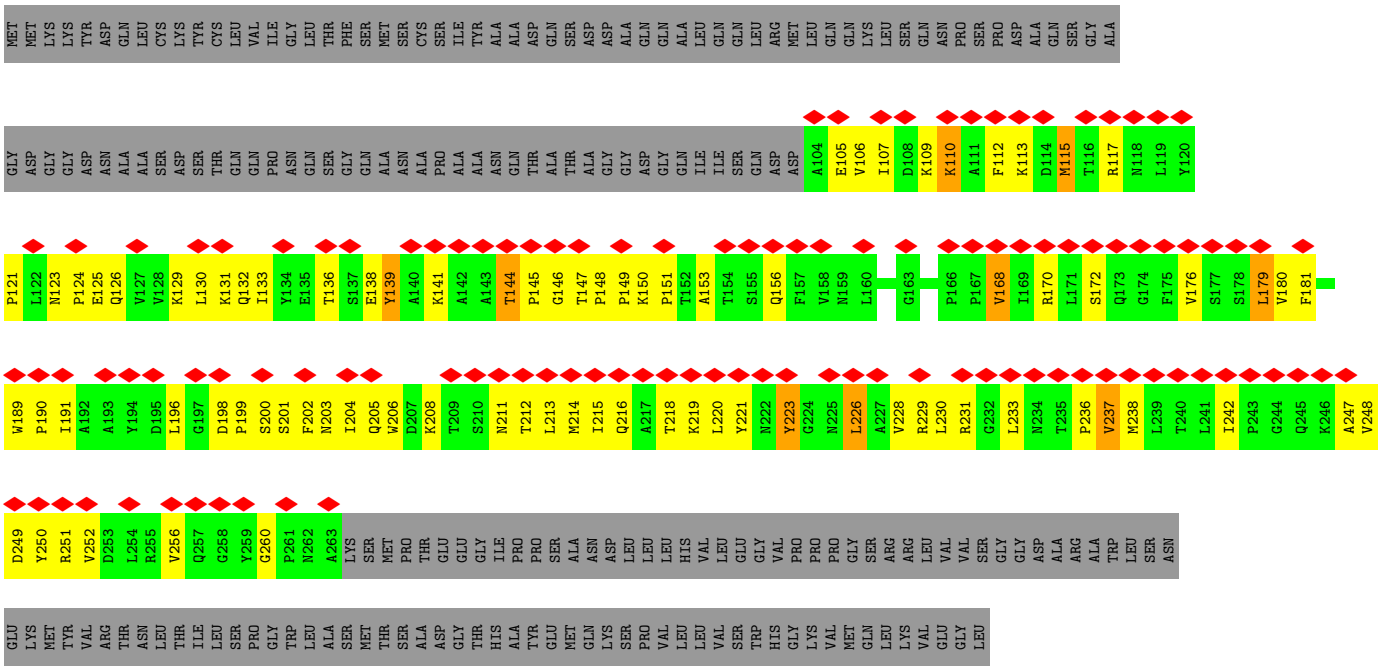
• Molecule 5: IcmG (DotF)

Chain Ec:



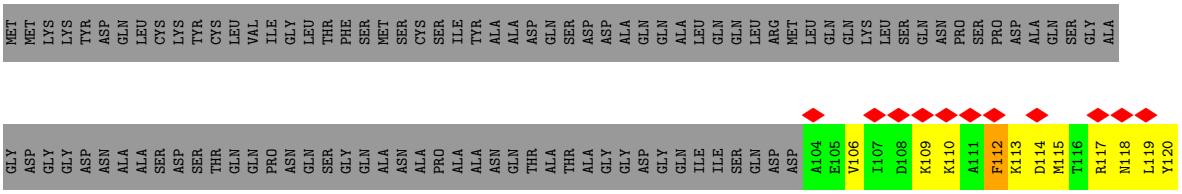
• Molecule 6: IcmK (DotH)

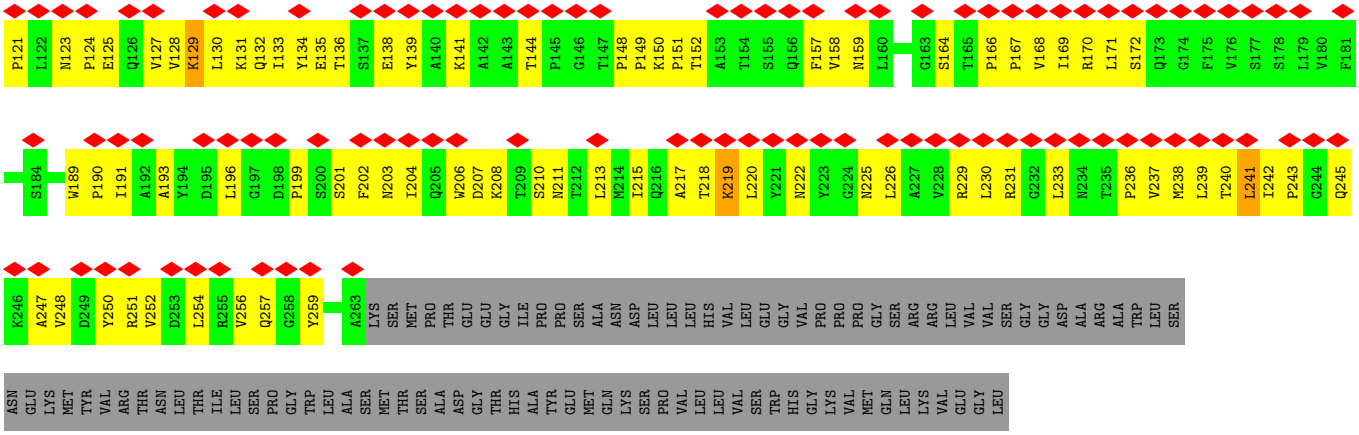
Chain Af:



• Molecule 6: IcmK (DotH)

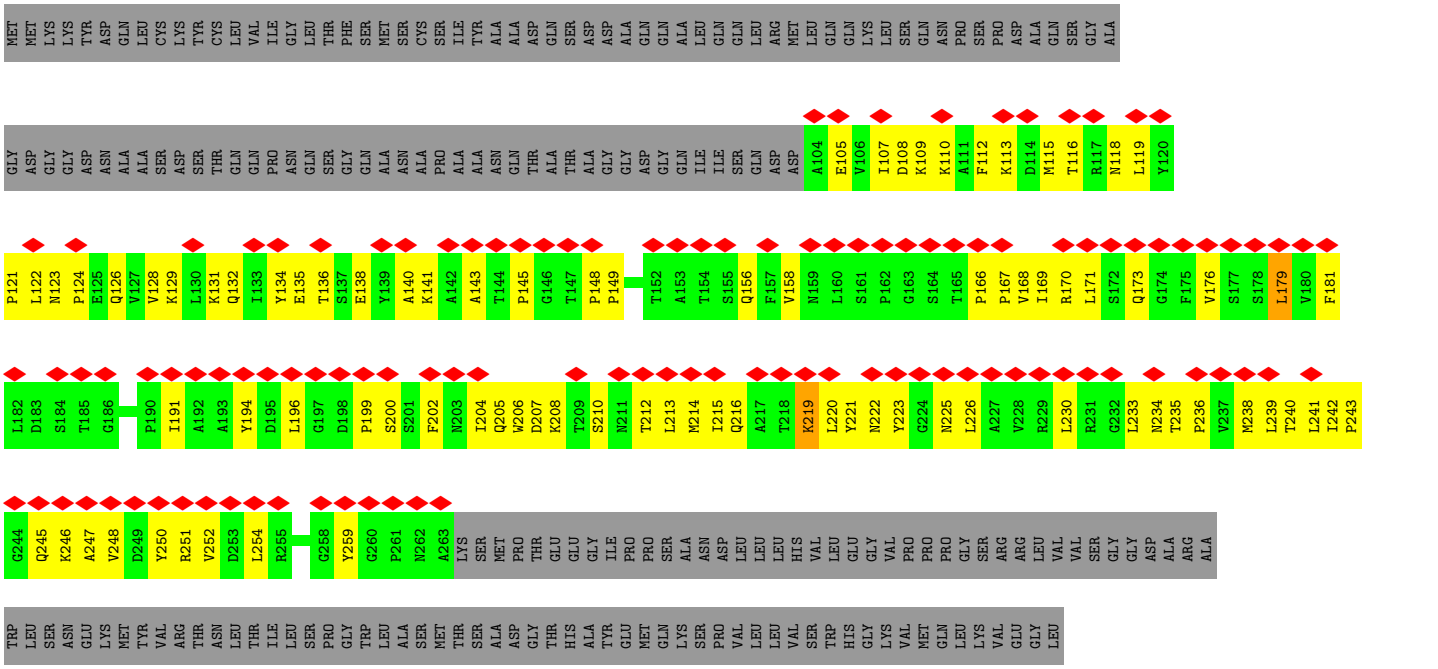
Chain Al:





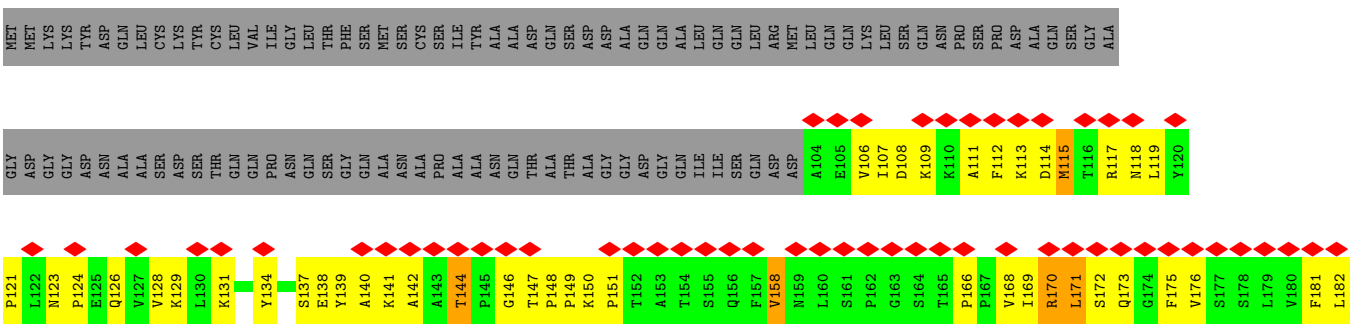
• Molecule 6: IcmK (DotH)

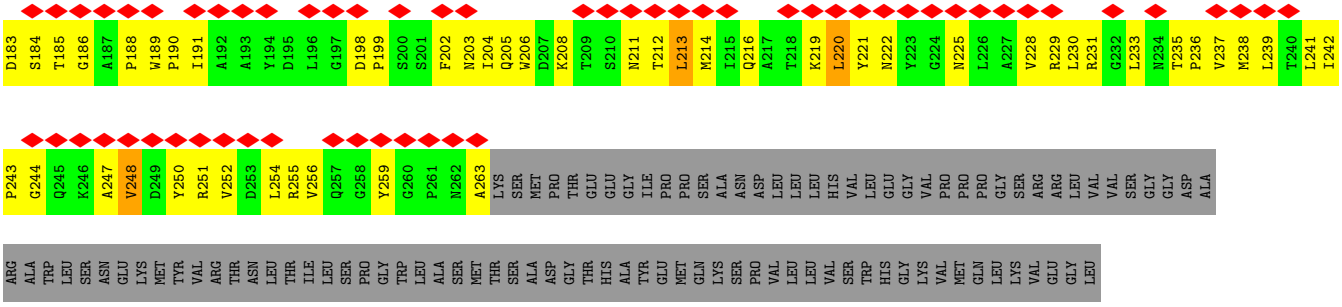
Chain Ar:



• Molecule 6: IcmK (DotH)

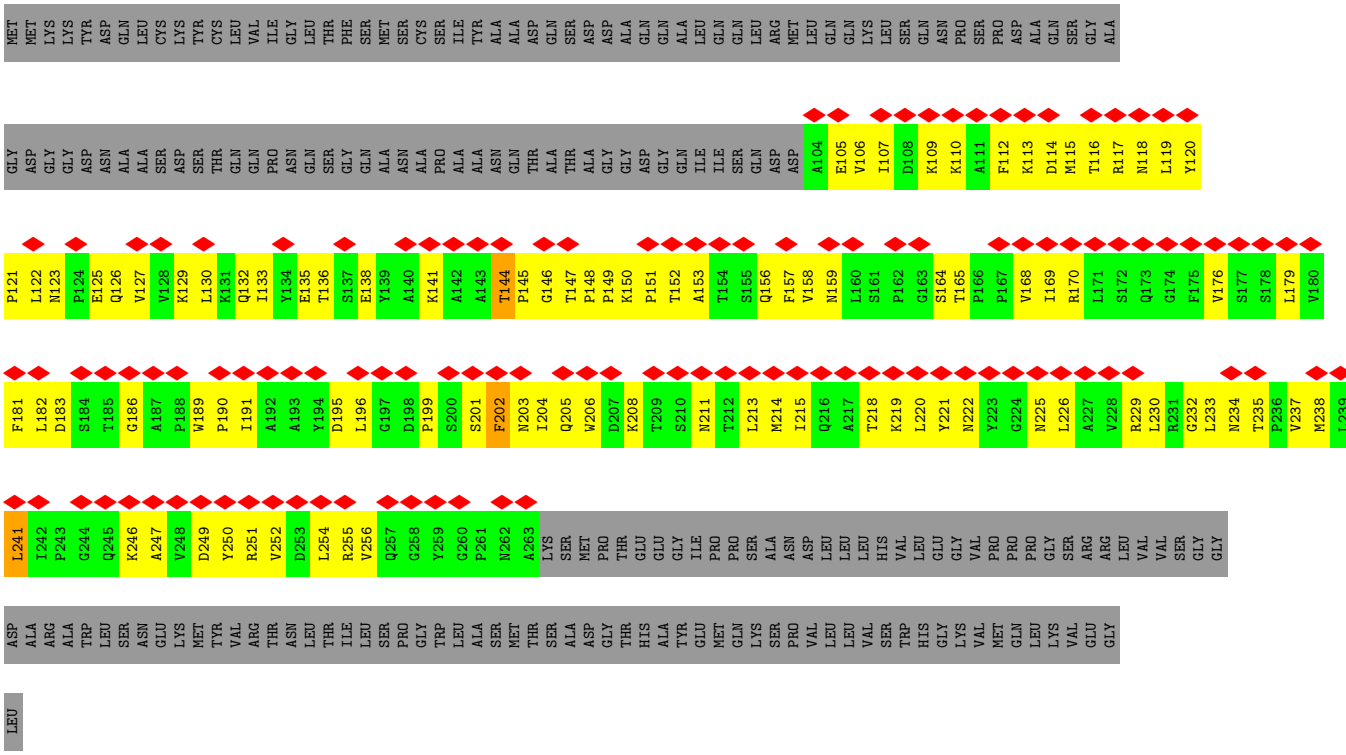
Chain Ax:





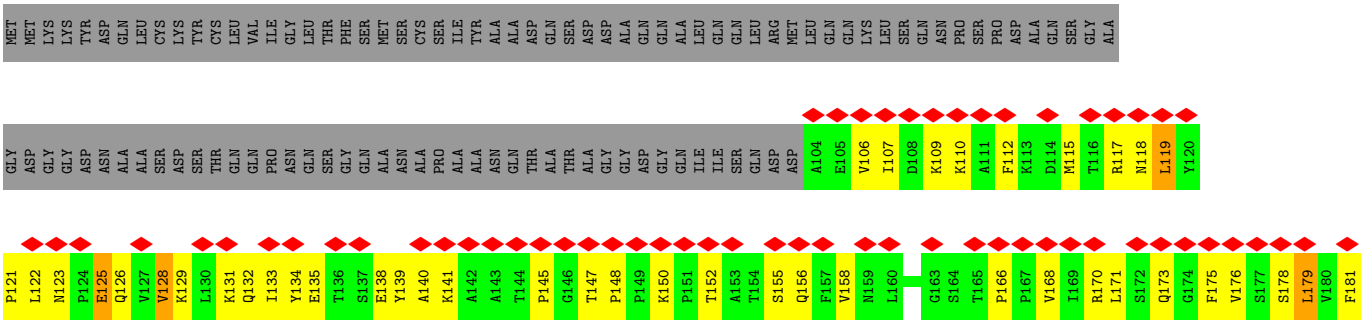
• Molecule 6: IcmK (DotH)

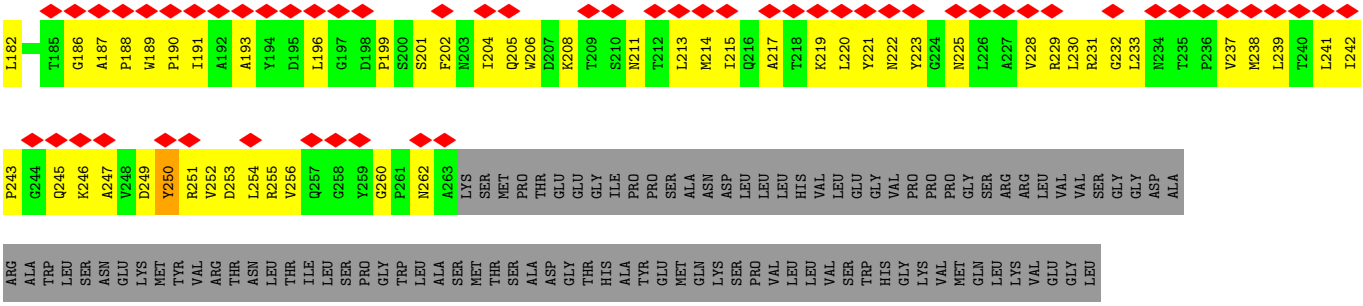
Chain Bd:



• Molecule 6: IcmK (DotH)

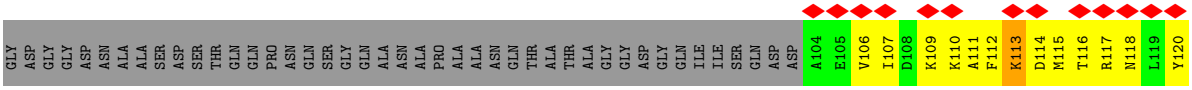
Chain Bj:

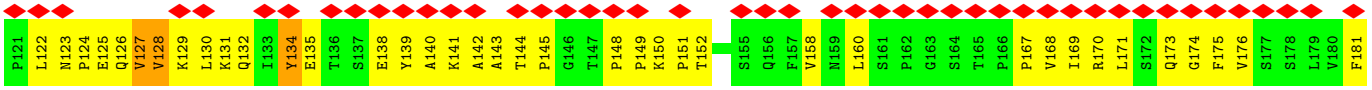


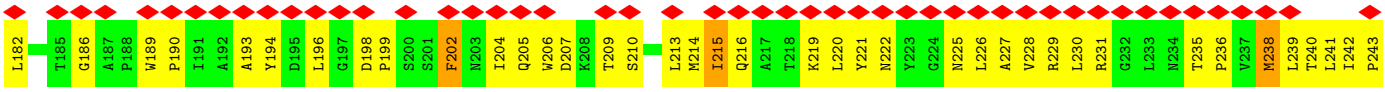


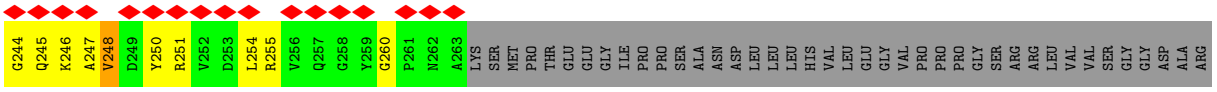
• Molecule 6: IcmK (DotH)

Chain Bp:



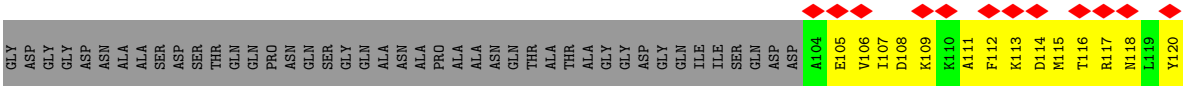


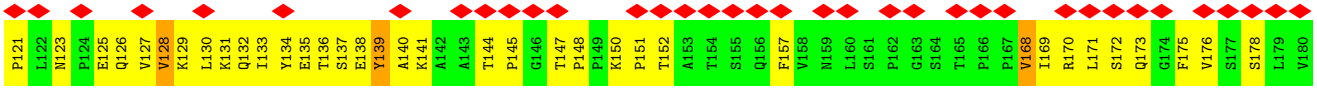


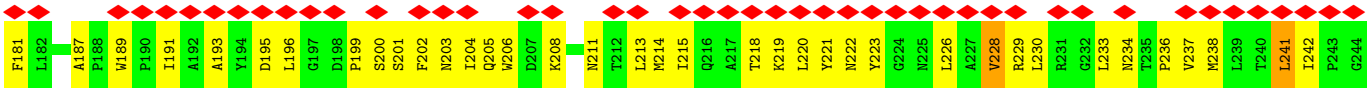


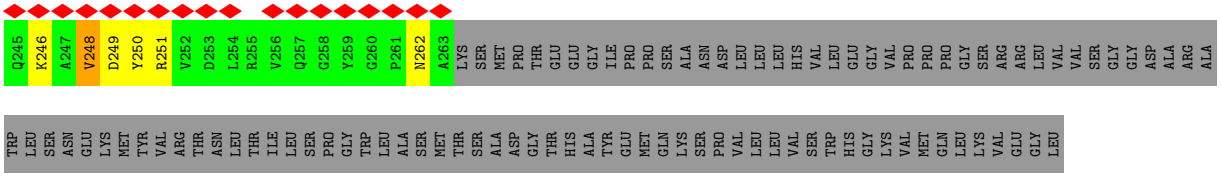
• Molecule 6: IcmK (DotH)

Chain Bv:



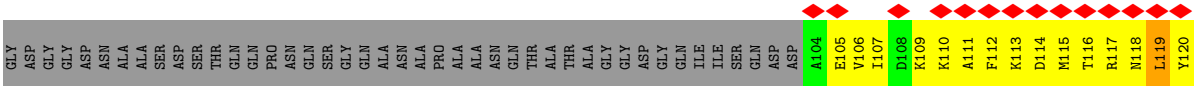


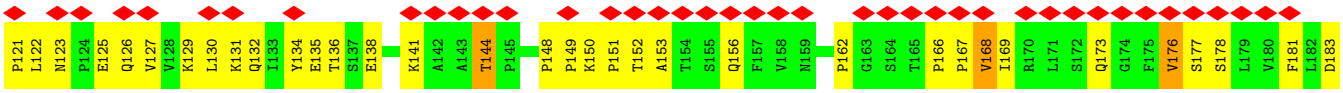


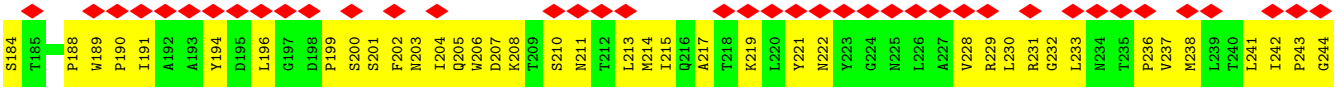


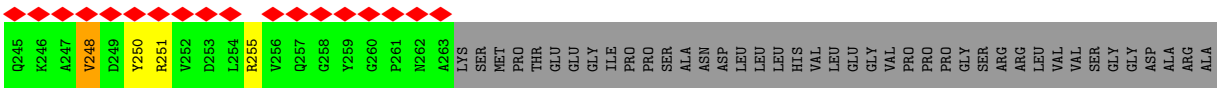
• Molecule 6: IcmK (DotH)

Chain Cb:



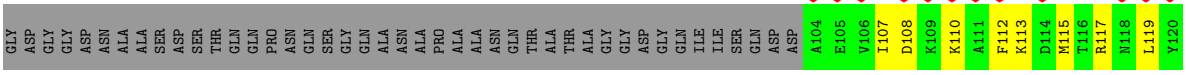


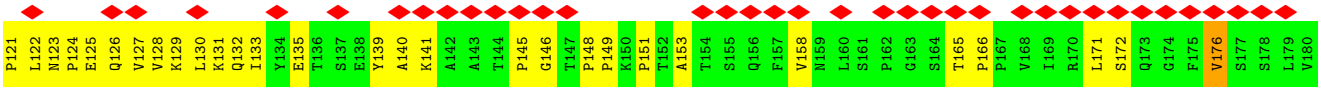


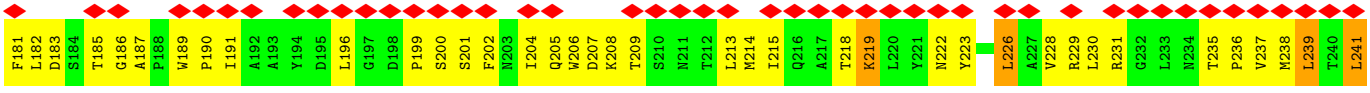


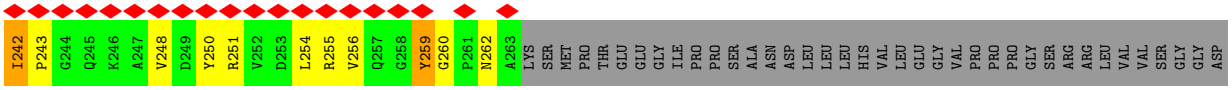
• Molecule 6: IcmK (DotH)

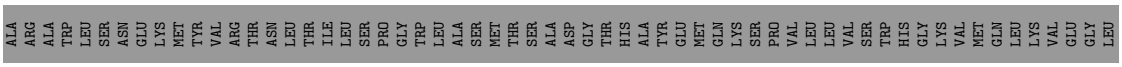
Chain Ch:





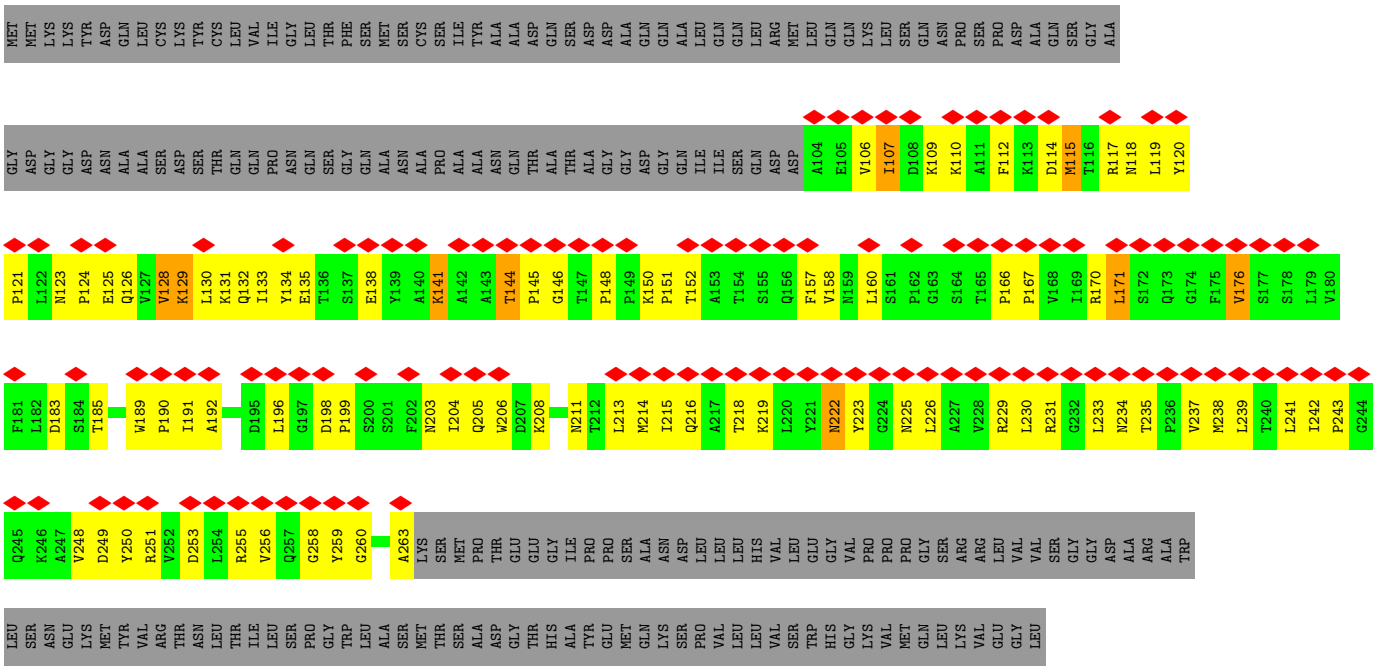






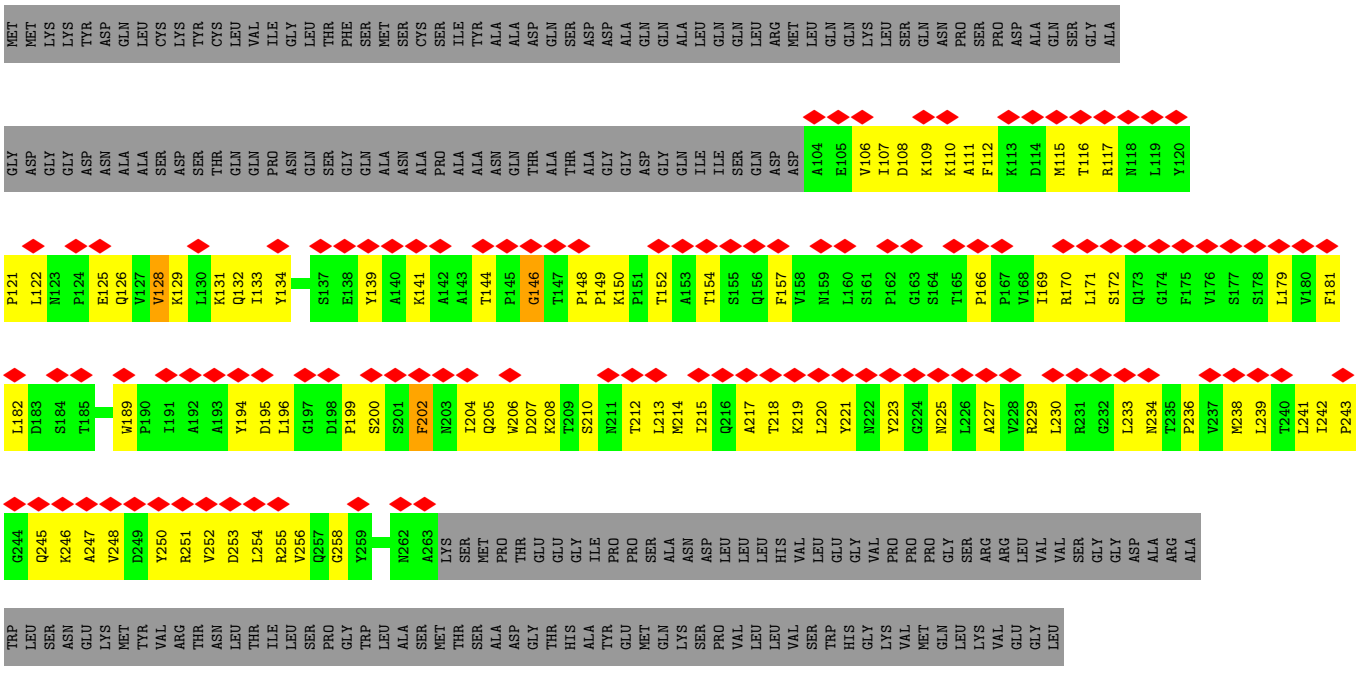
• Molecule 6: IcmK (DotH)

Chain Cn:



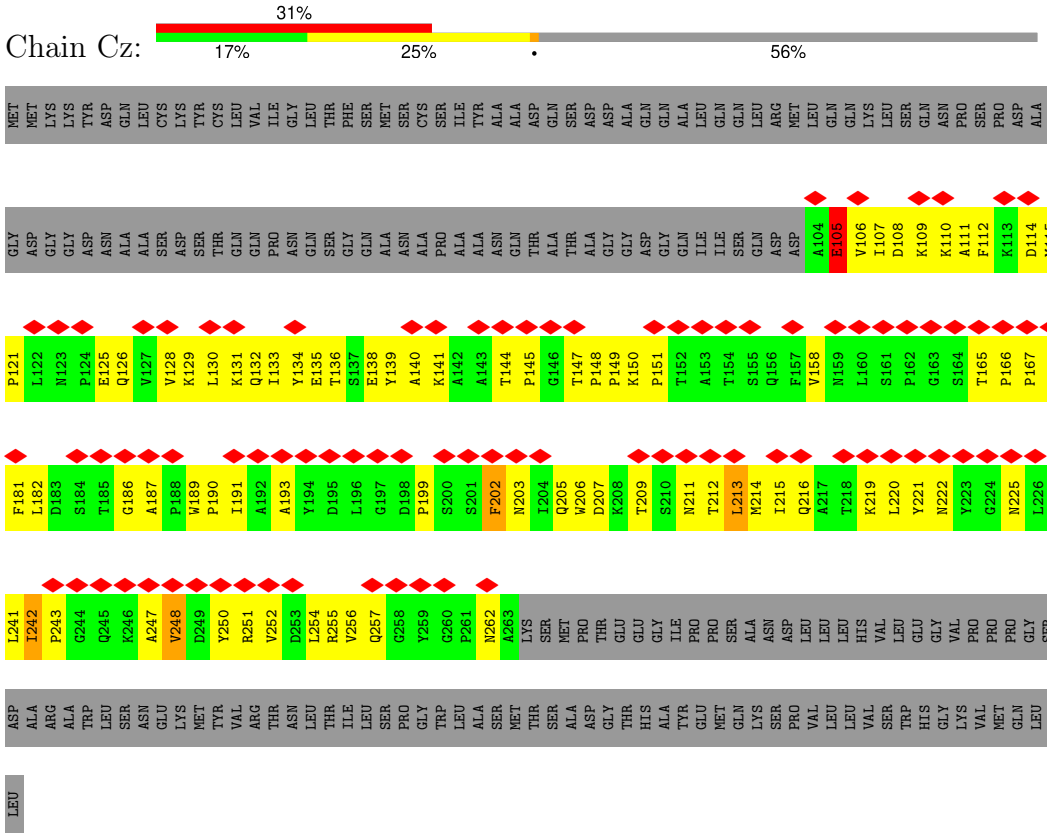
• Molecule 6: IcmK (DotH)

Chain Ct:



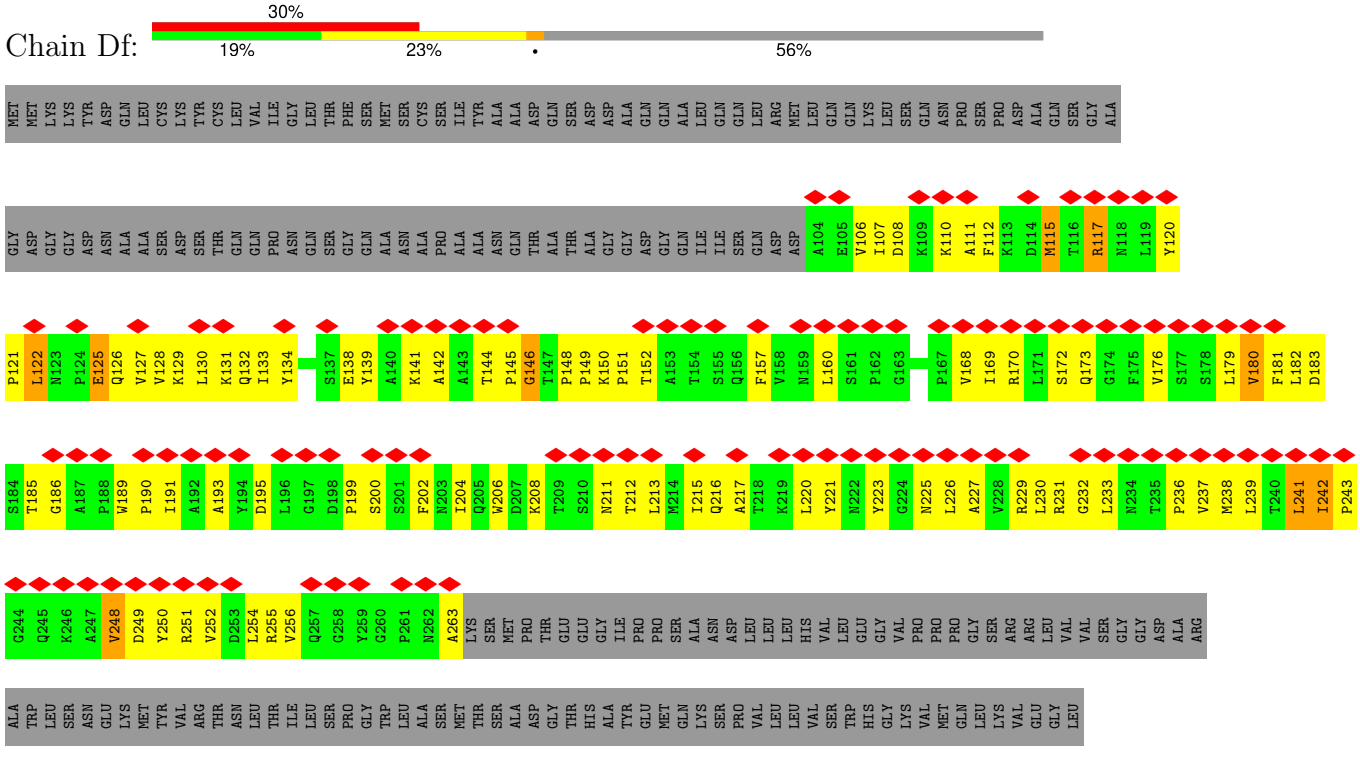
• Molecule 6: IcmK (DotH)

Chain Cz:



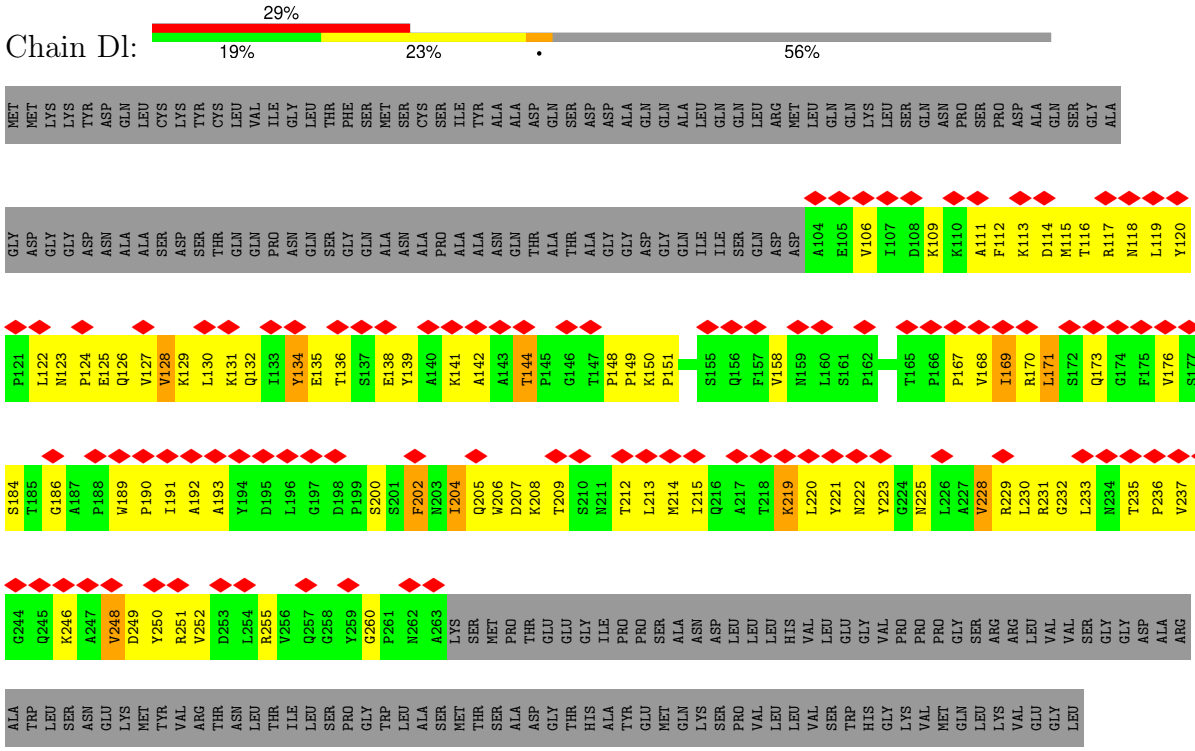
• Molecule 6: IcmK (DotH)

Chain Df:



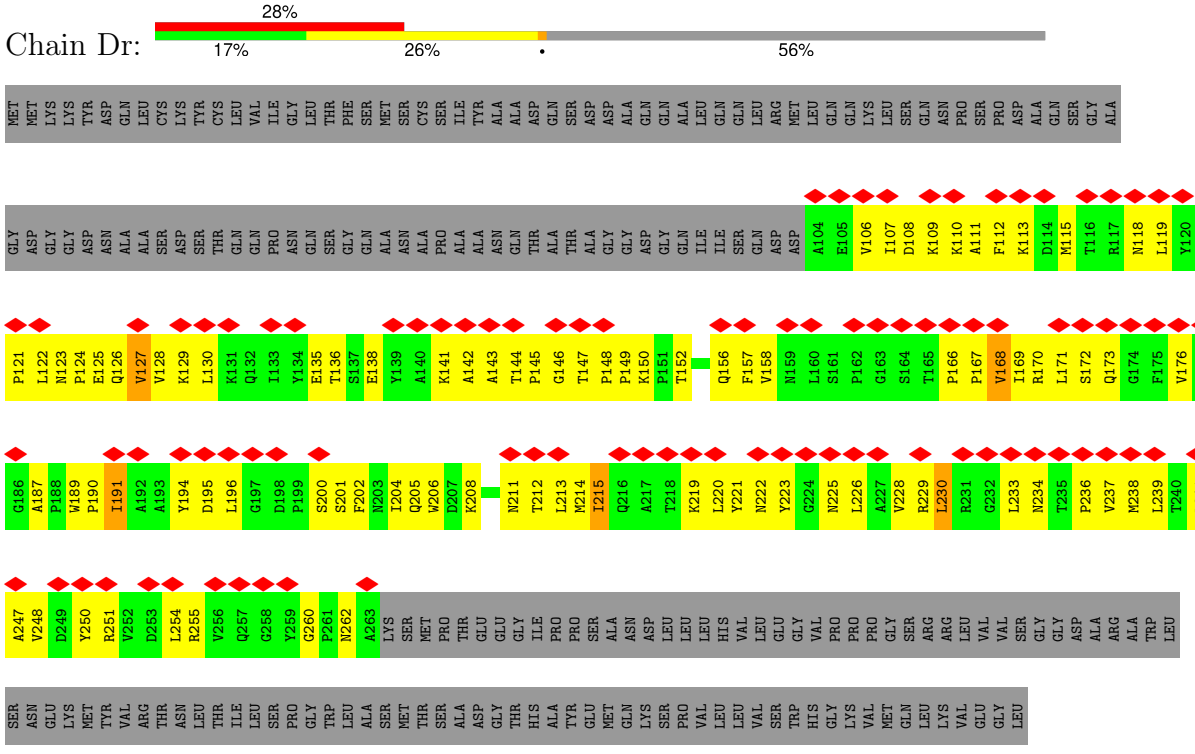
• Molecule 6: IcmK (DotH)

Chain Dl:



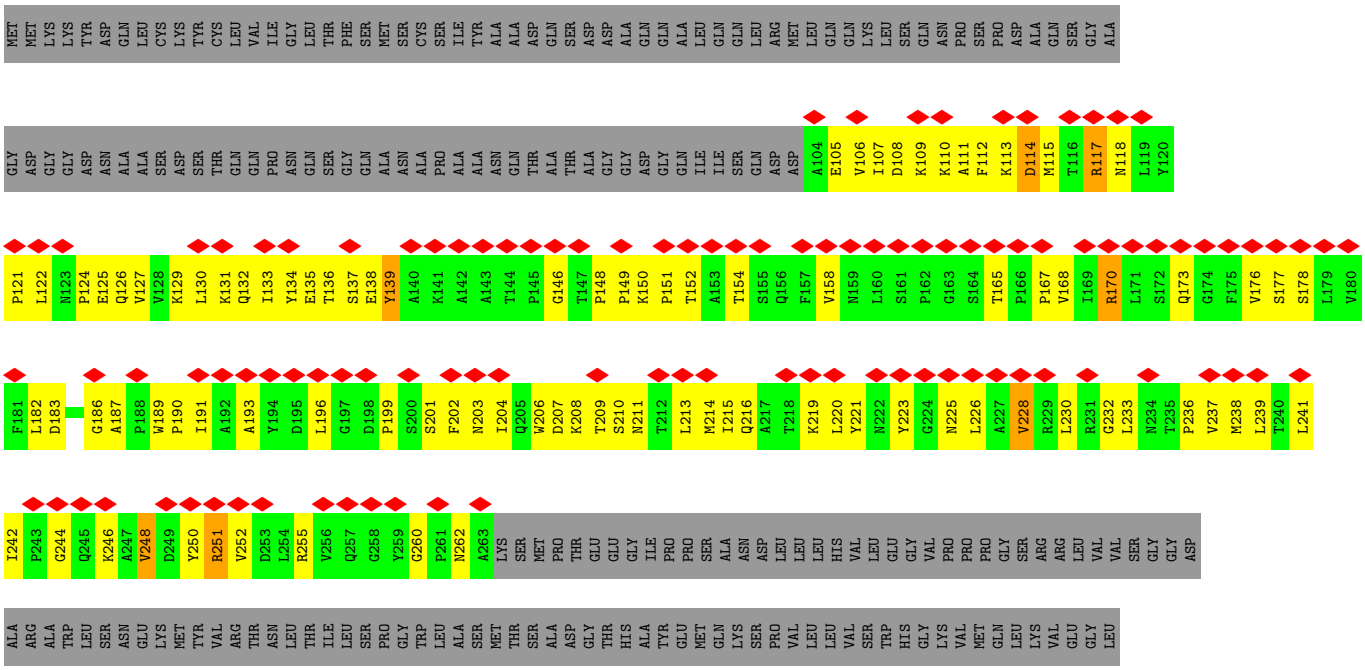
• Molecule 6: IcmK (DotH)

Chain Dr:



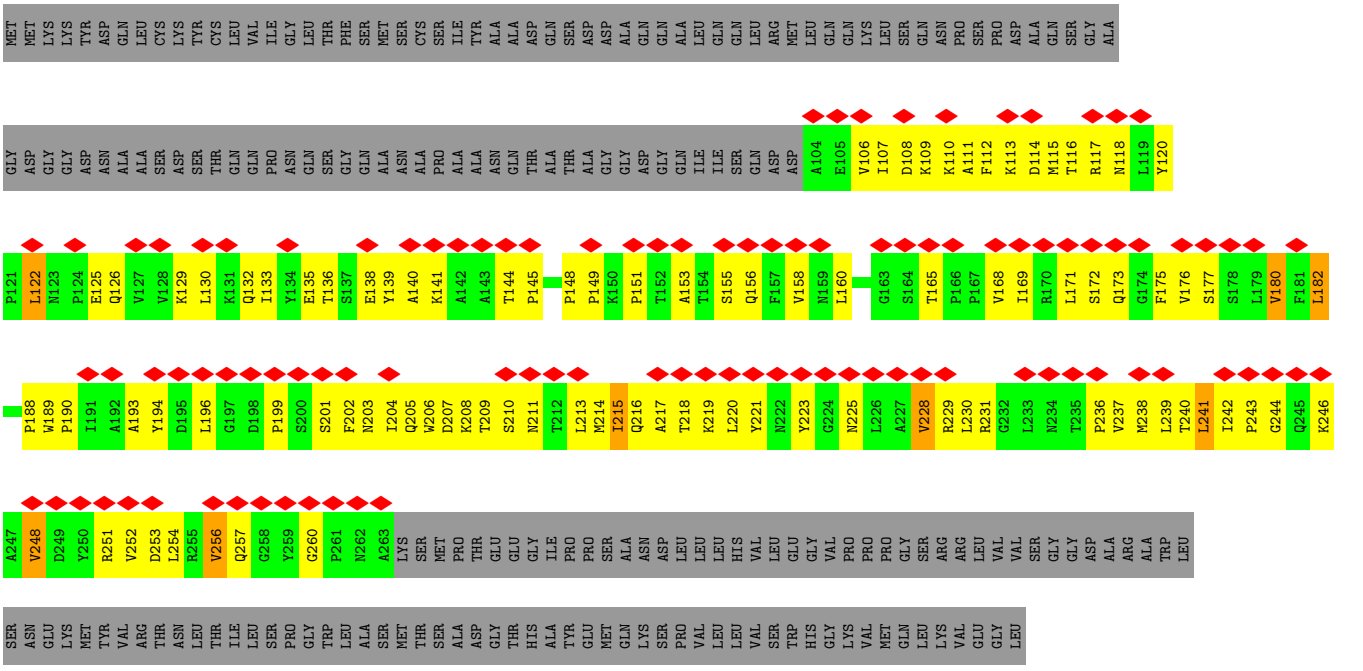
• Molecule 6: IcmK (DotH)

Chain Dx:



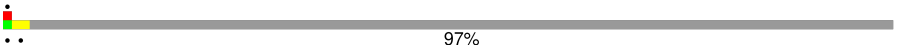
• Molecule 6: IcmK (DotH)

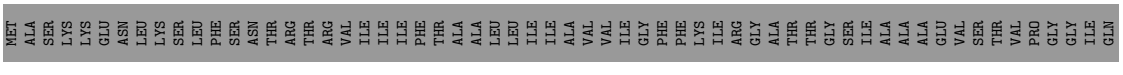
Chain Ed:

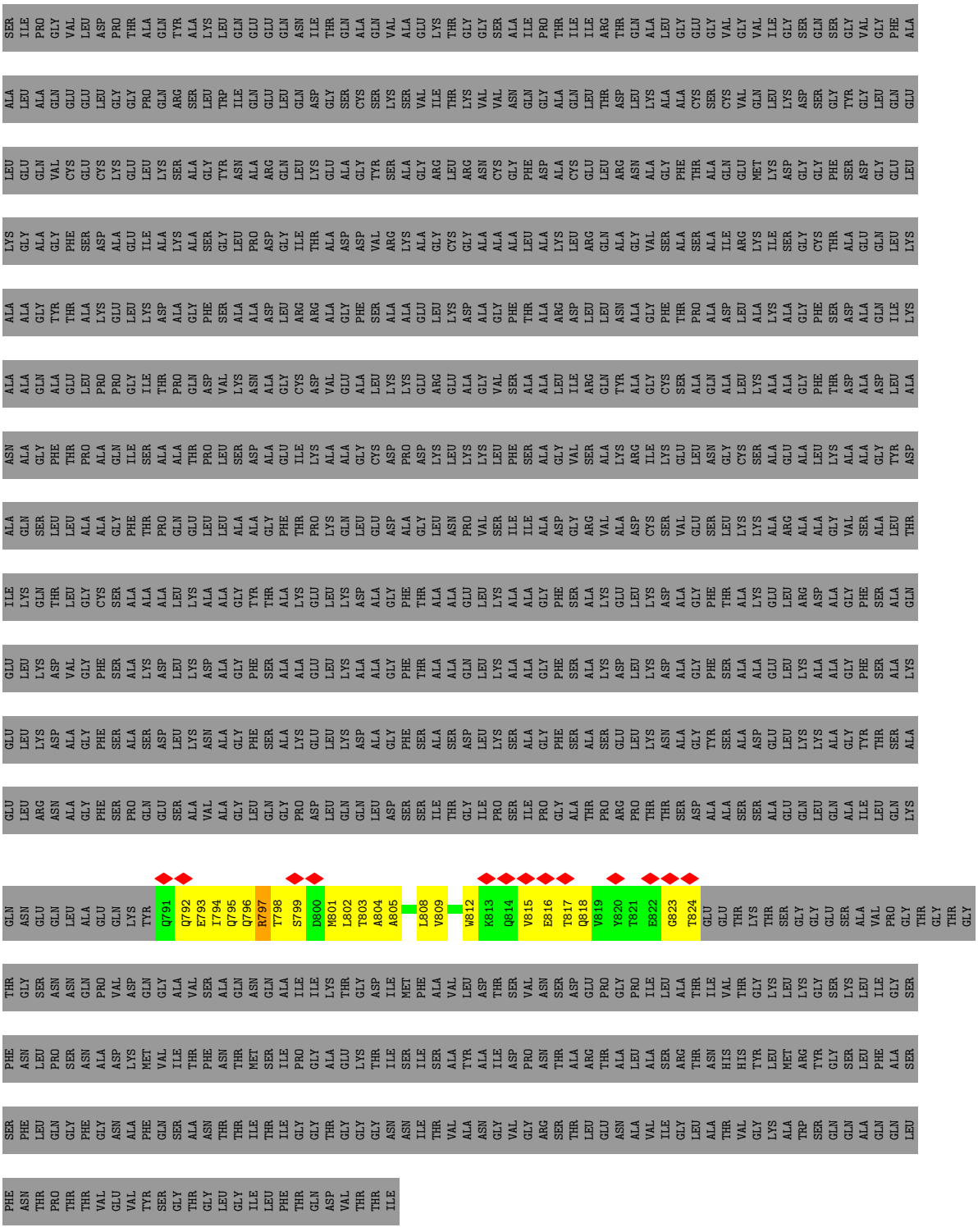


• Molecule 7: IcmE (DotG)

Chain Ee:

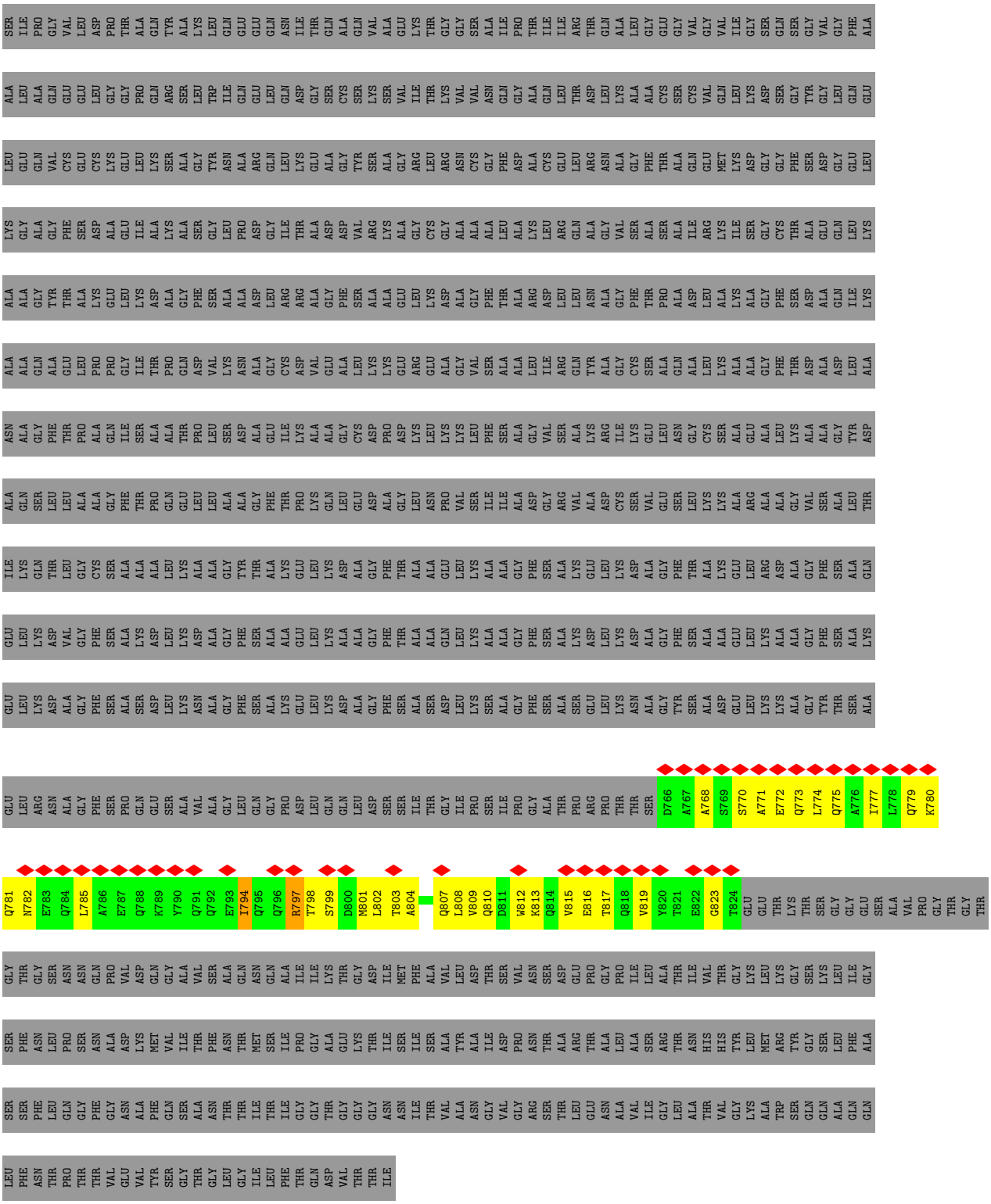




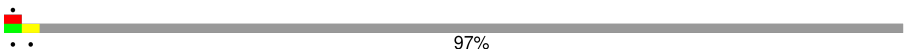


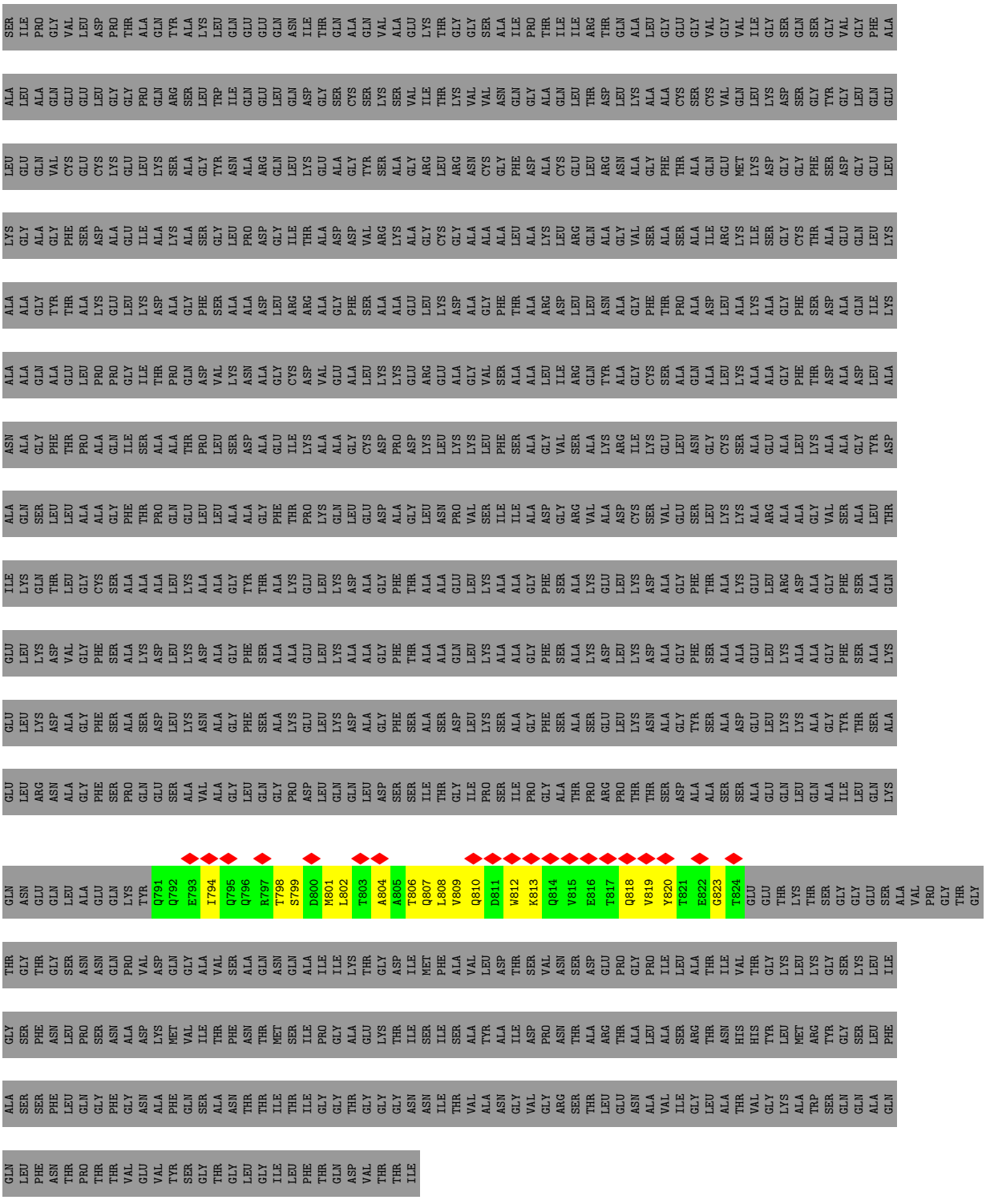
• Molecule 7: IcmE (DotG)

Chain Ef:



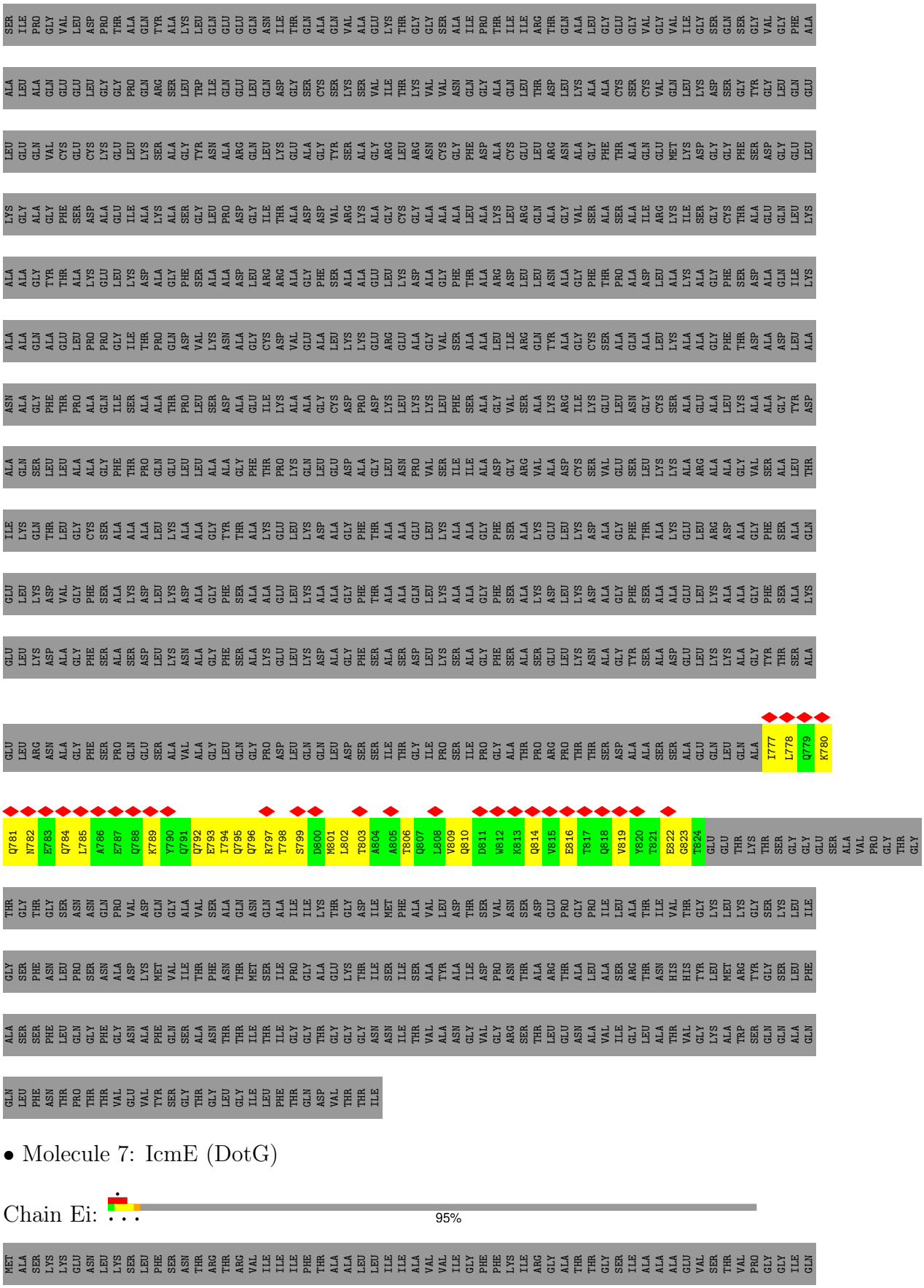
• Molecule 7: IcmE (DotG)





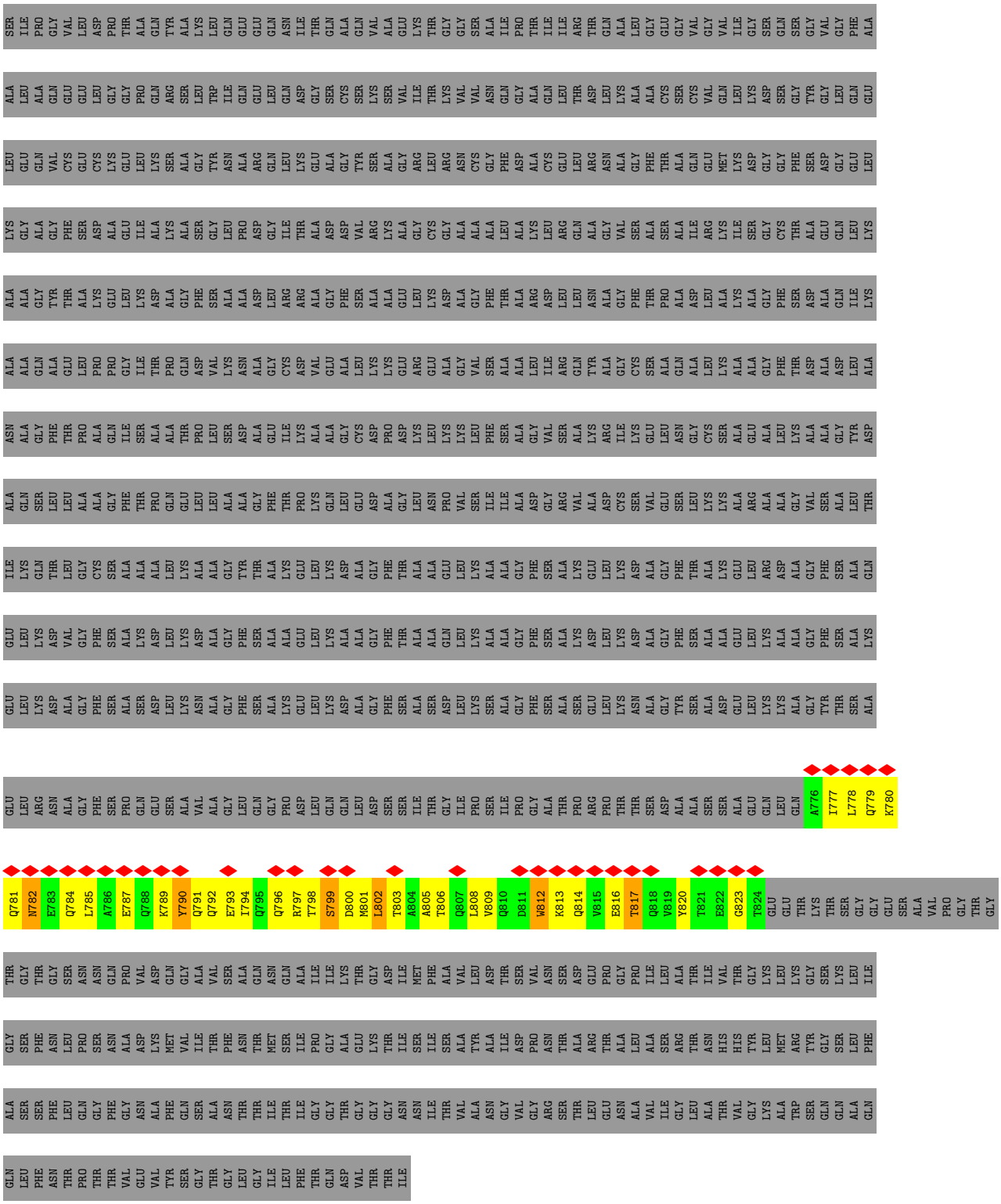
• Molecule 7: IcmE (DotG)

Chain Eh:



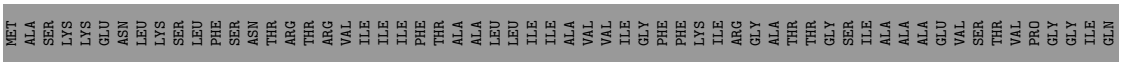
• Molecule 7: IcmE (DotG)

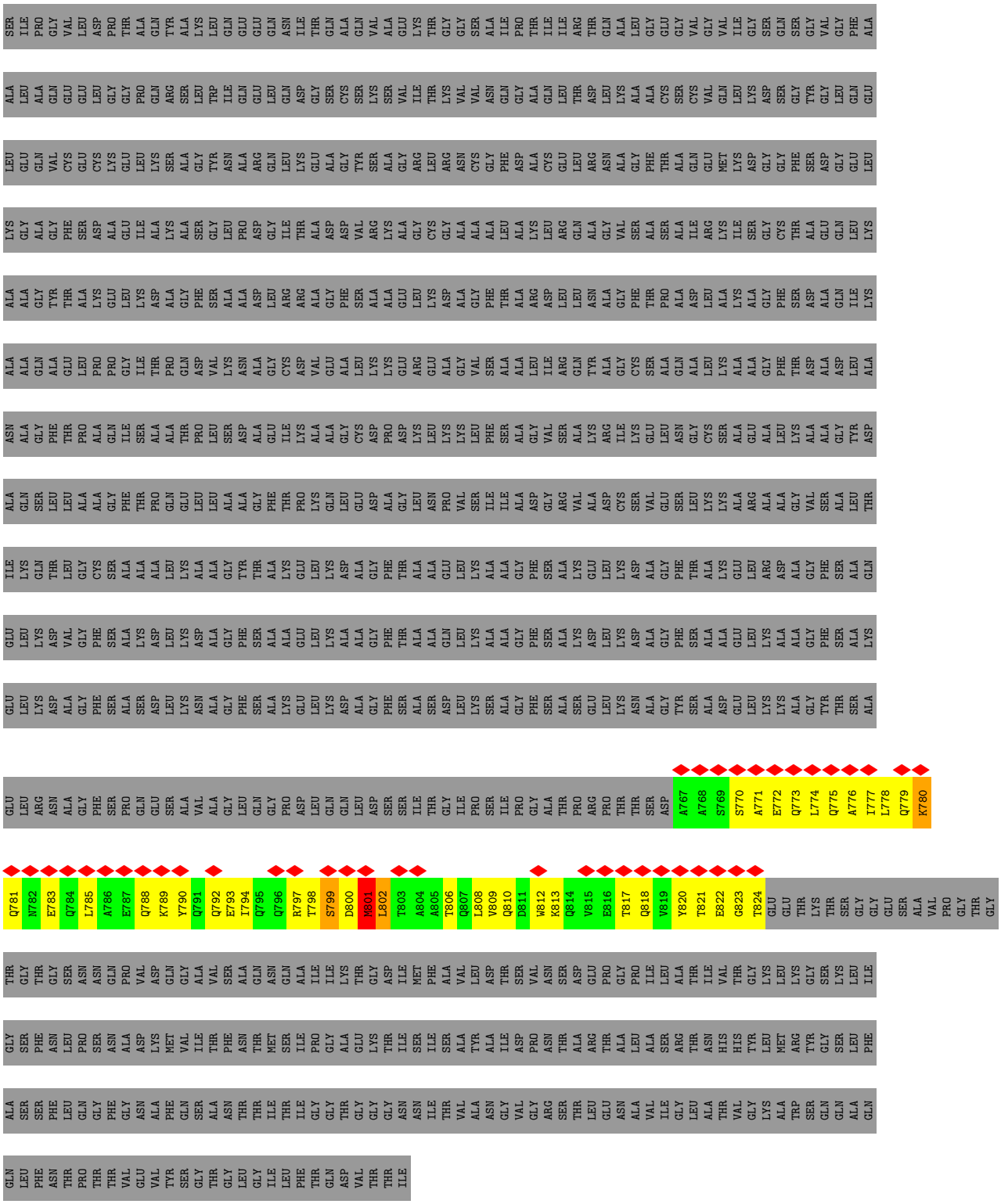
Chain Ei:



• Molecule 7: IcmE (DotG)

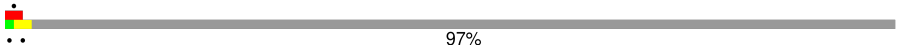
Chain Ej:

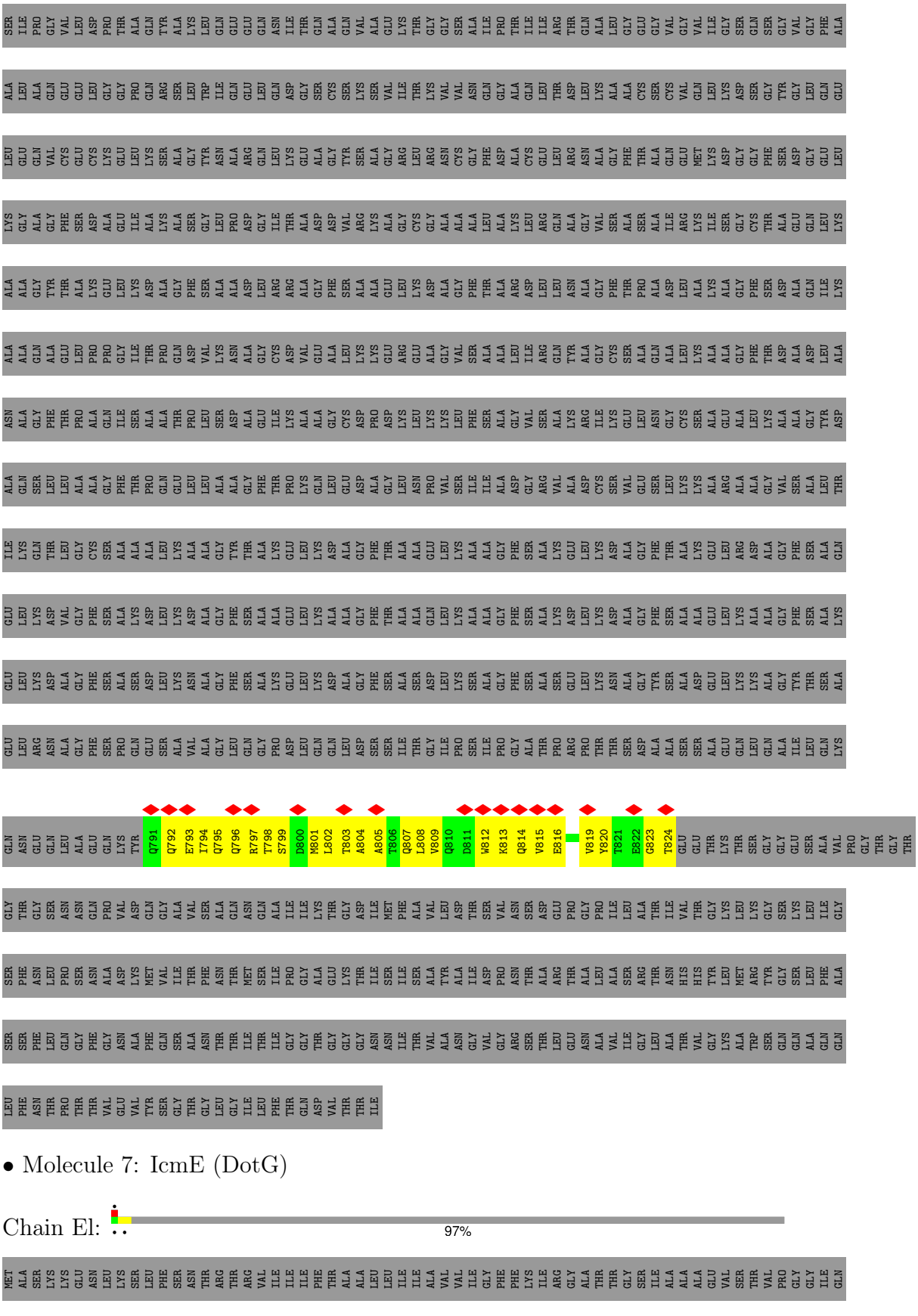




• Molecule 7: IcmE (DotG)

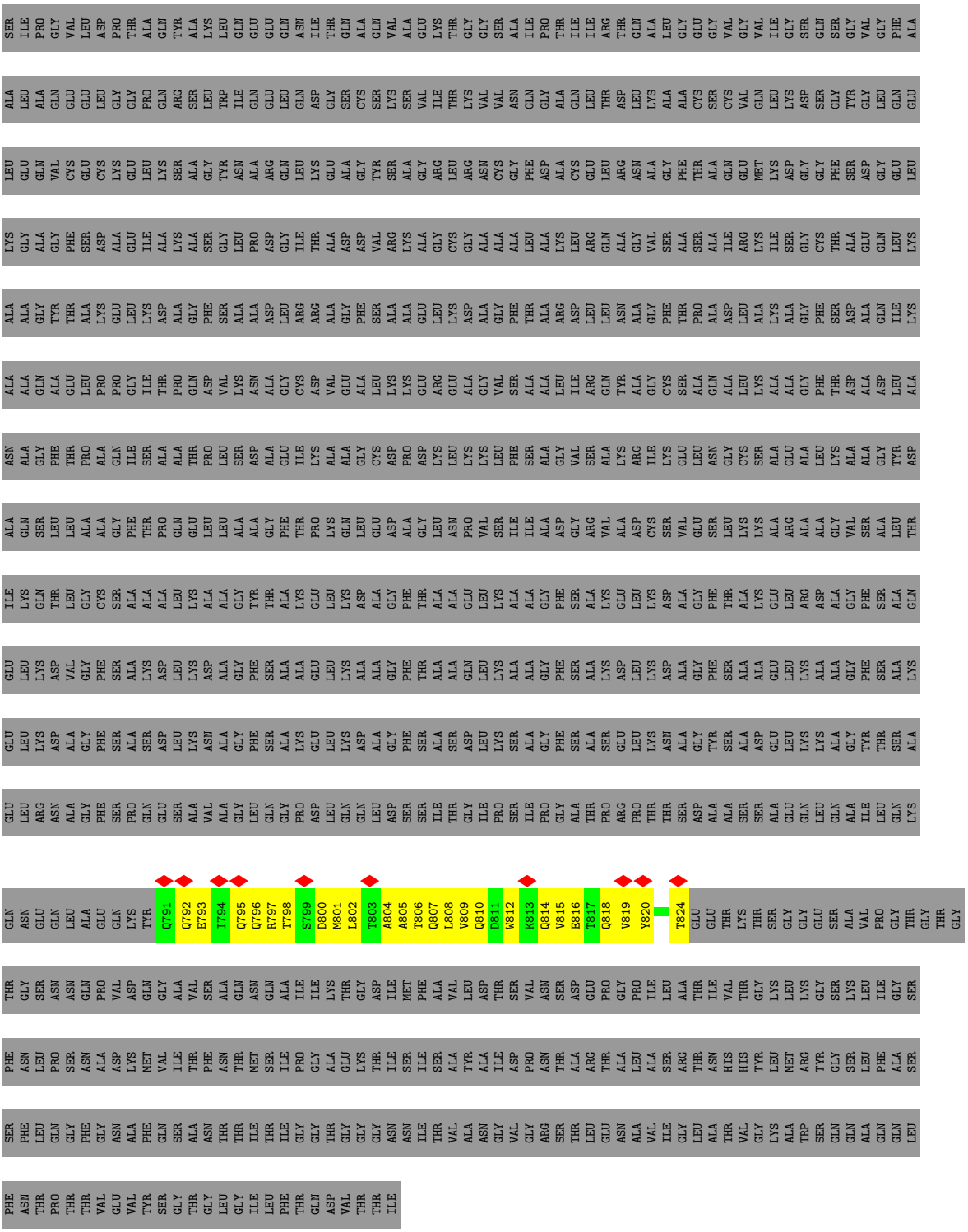
Chain Ek:





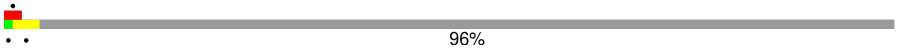
• Molecule 7: IcmE (DotG)

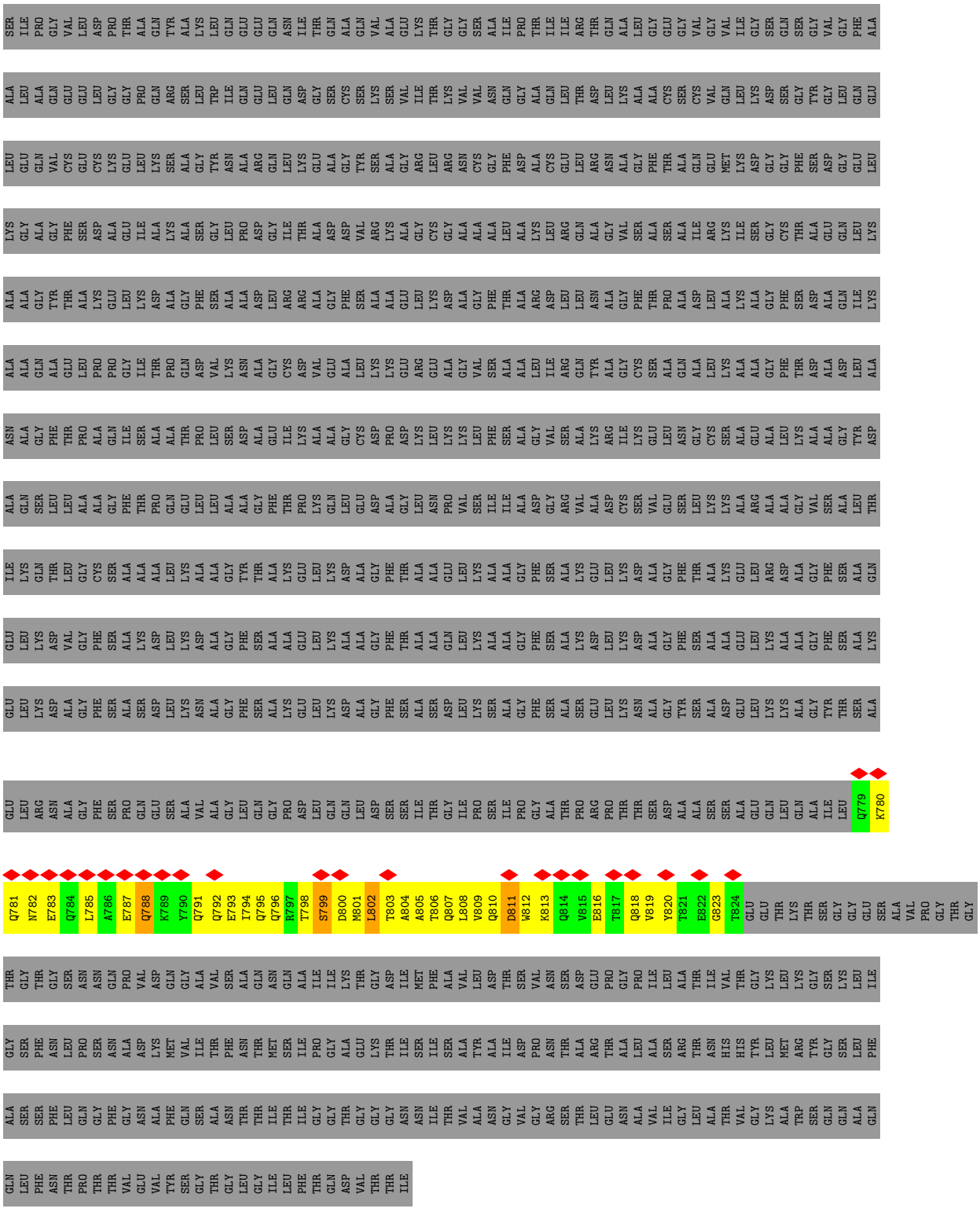
Chain El:



• Molecule 7: IcmE (DotG)

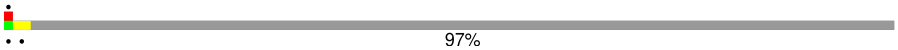
Chain Em:

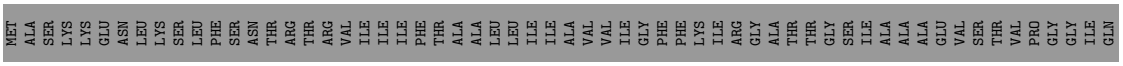


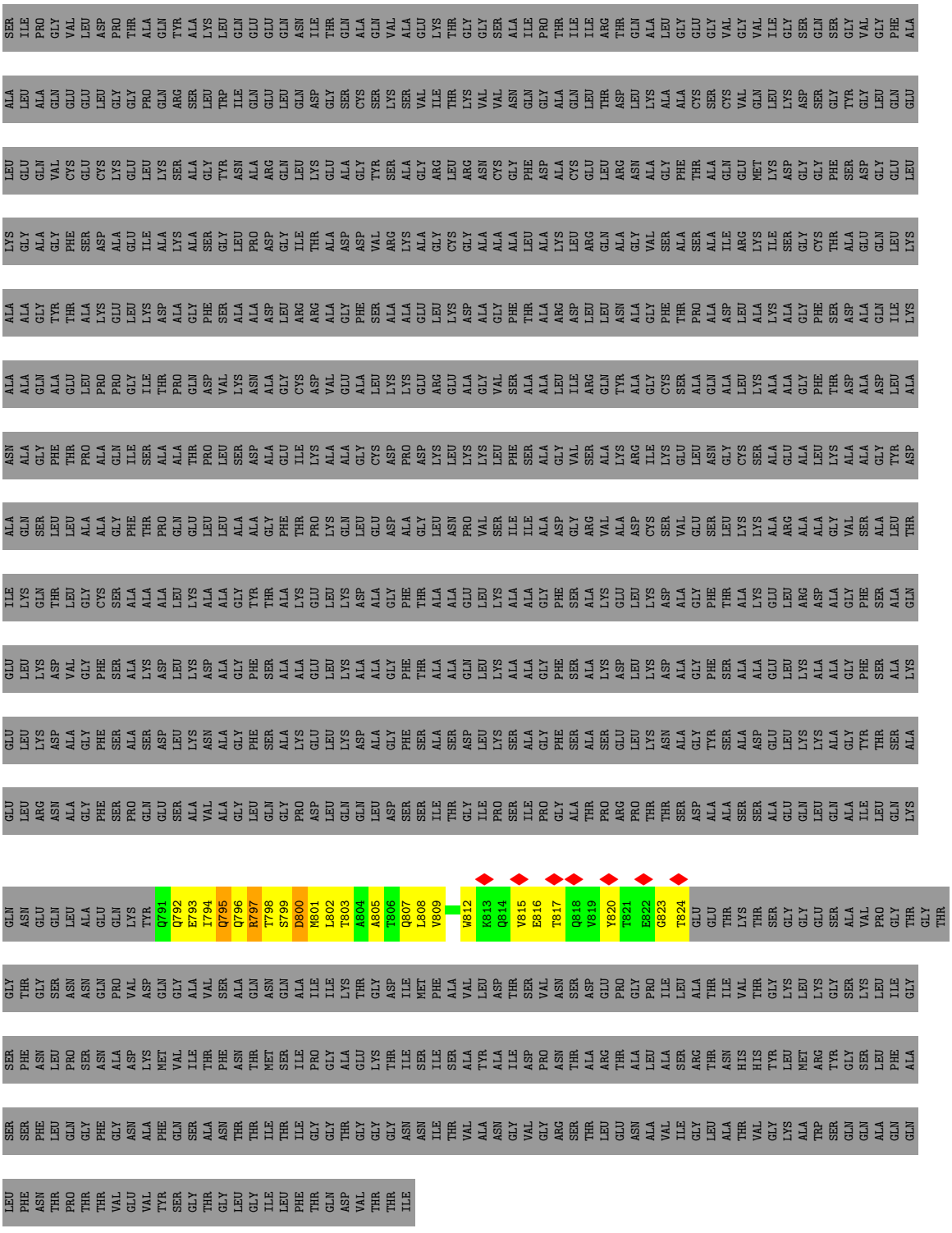


• Molecule 7: IcmE (DotG)

Chain En:

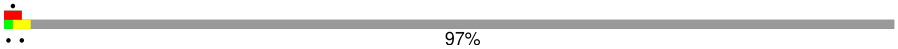


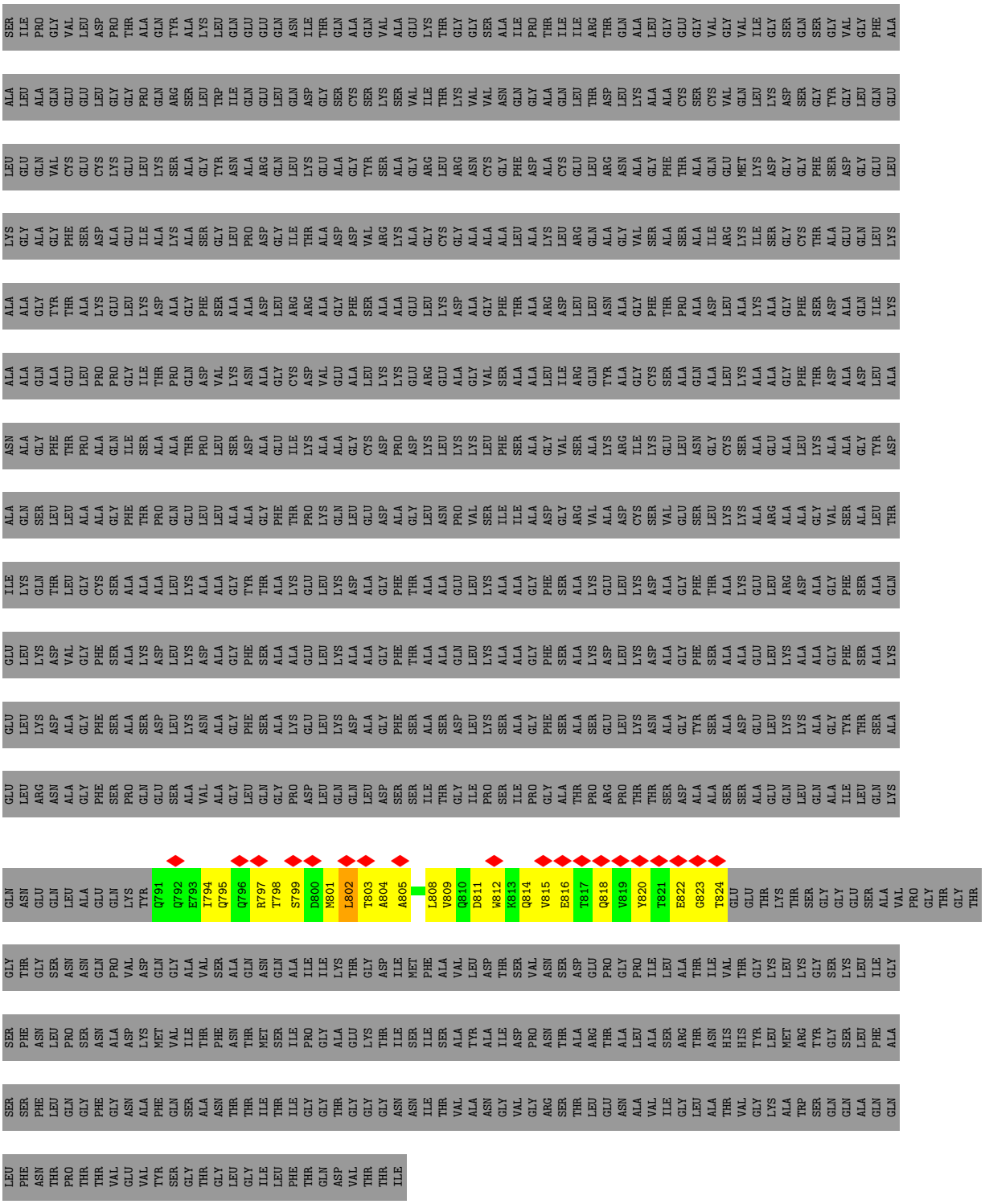




• Molecule 7: IcmE (DotG)

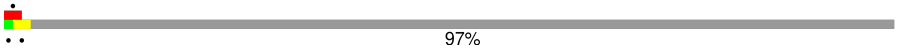
Chain Eo:

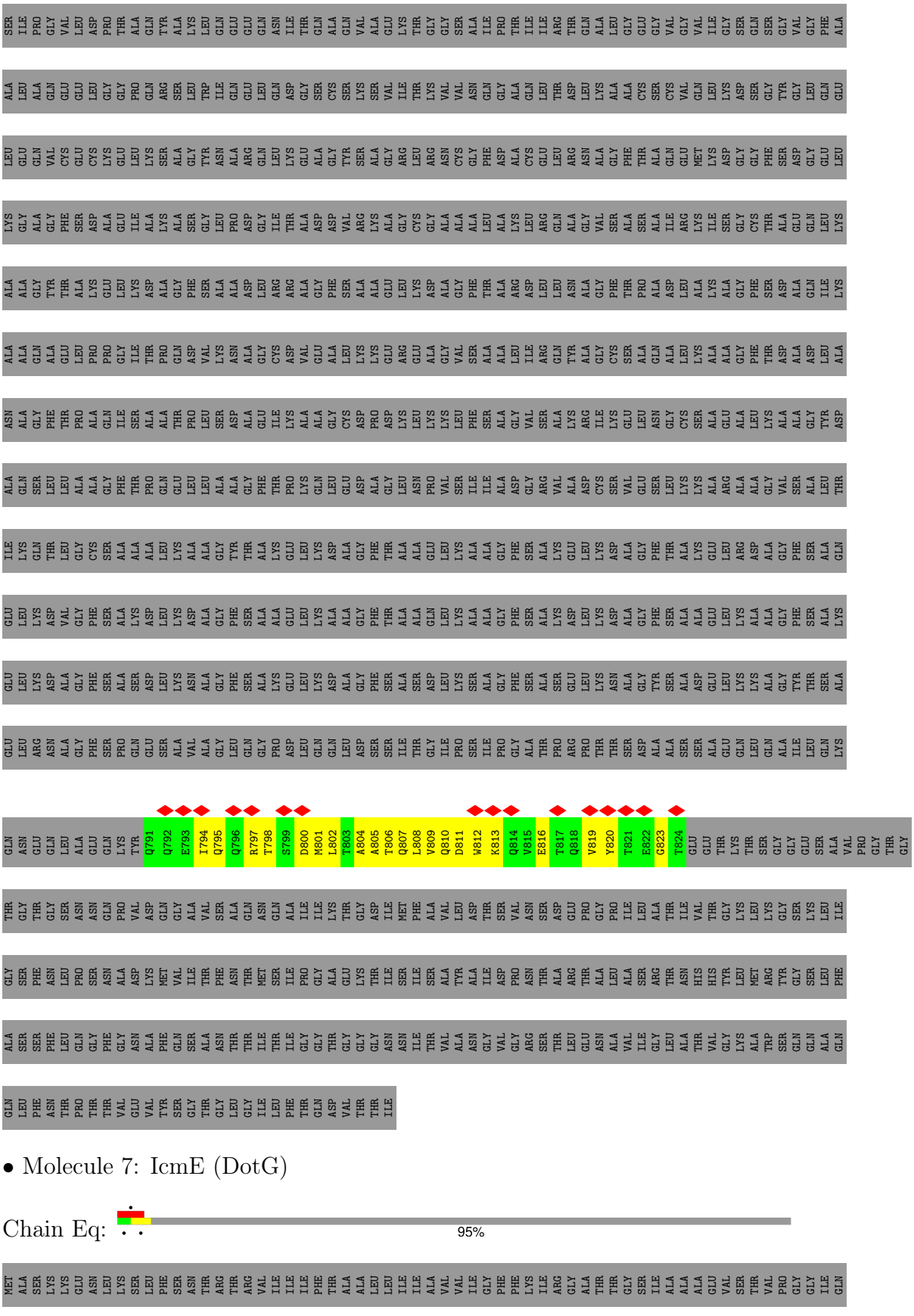




• Molecule 7: IcmE (DotG)

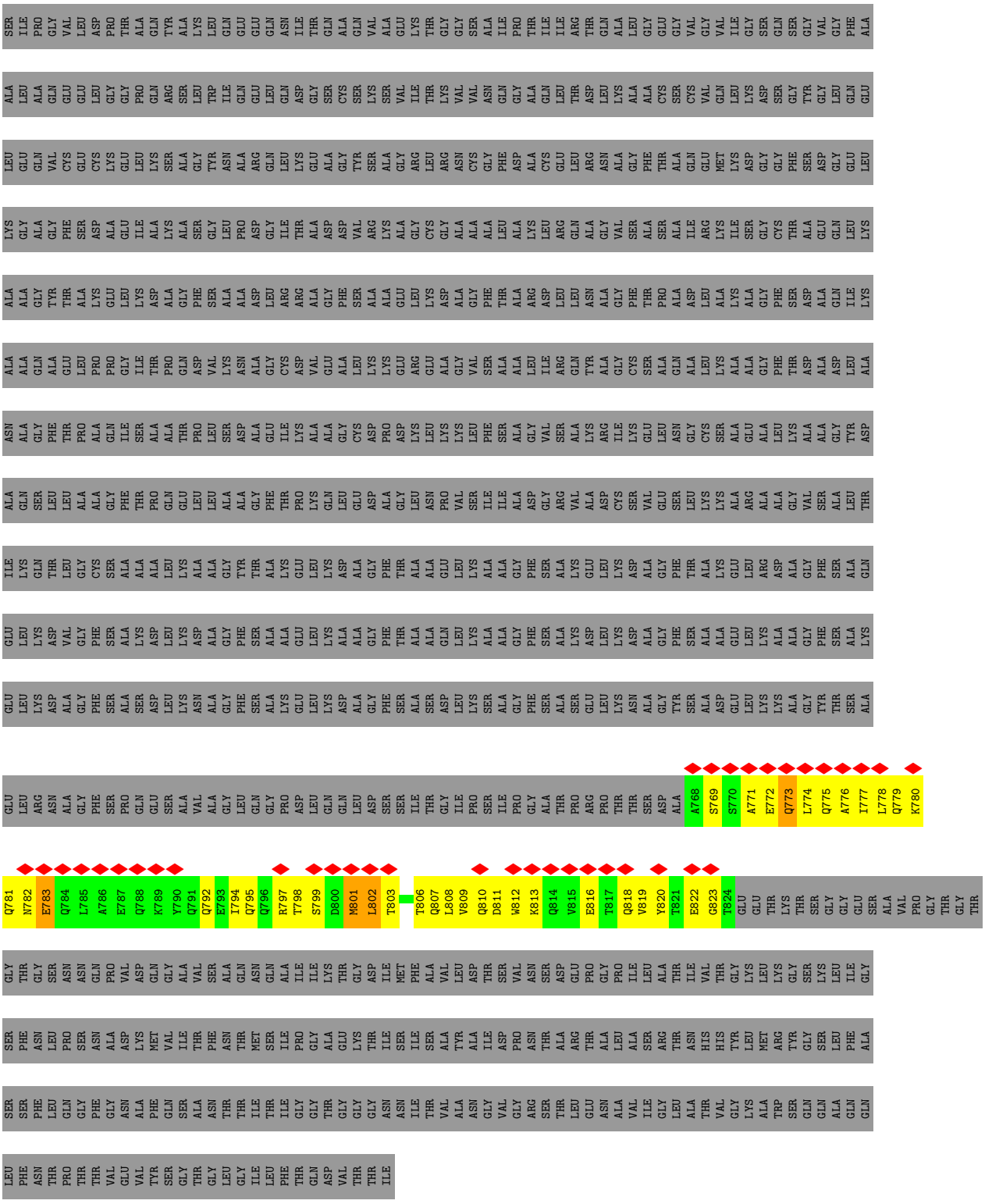
Chain Ep:





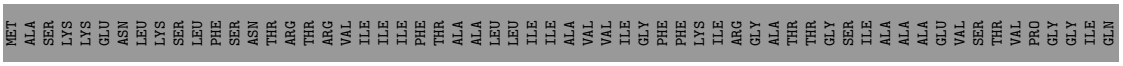
• Molecule 7: IcmE (DotG)

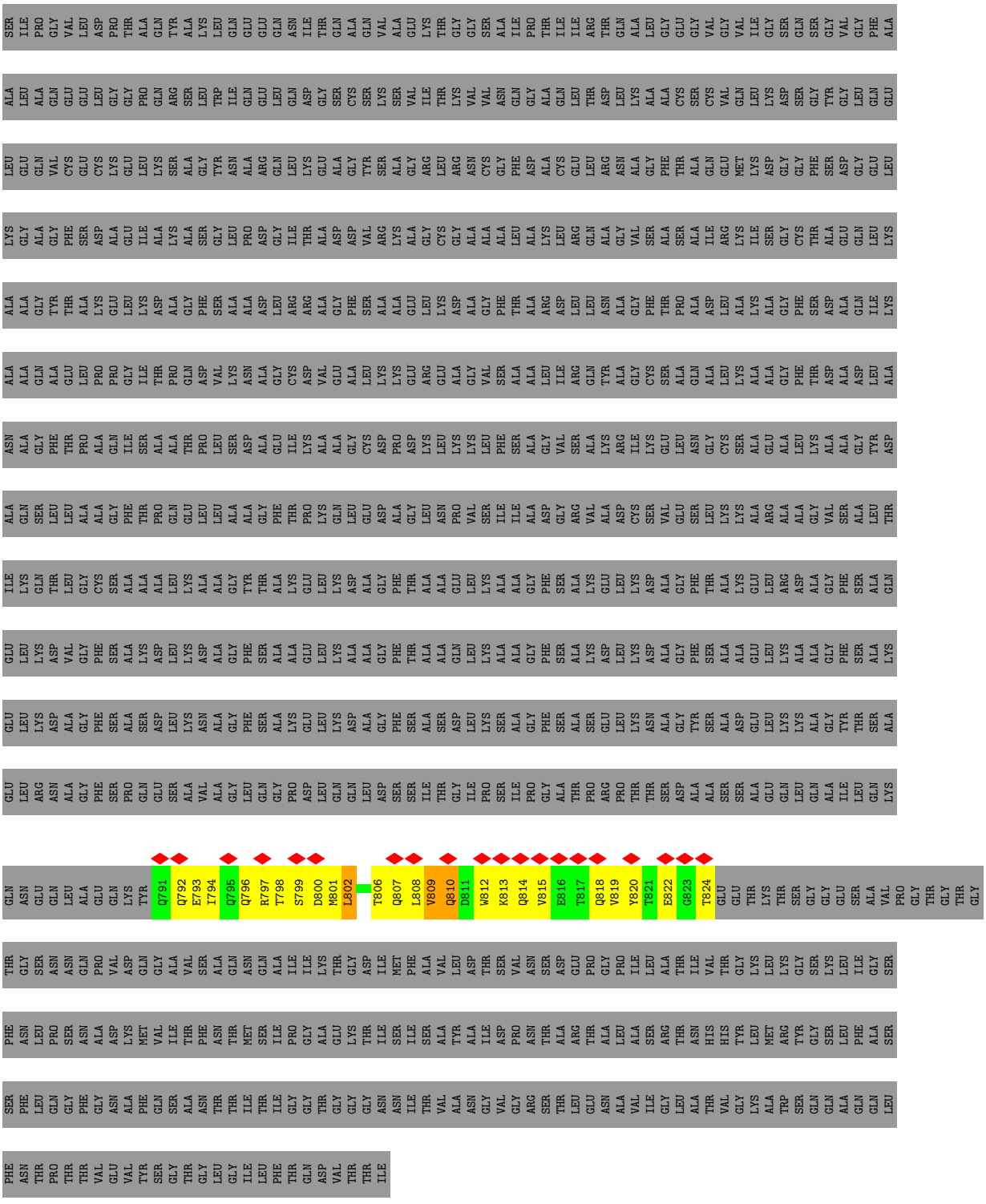
Chain Eq: 95%



• Molecule 7: IcmE (DotG)

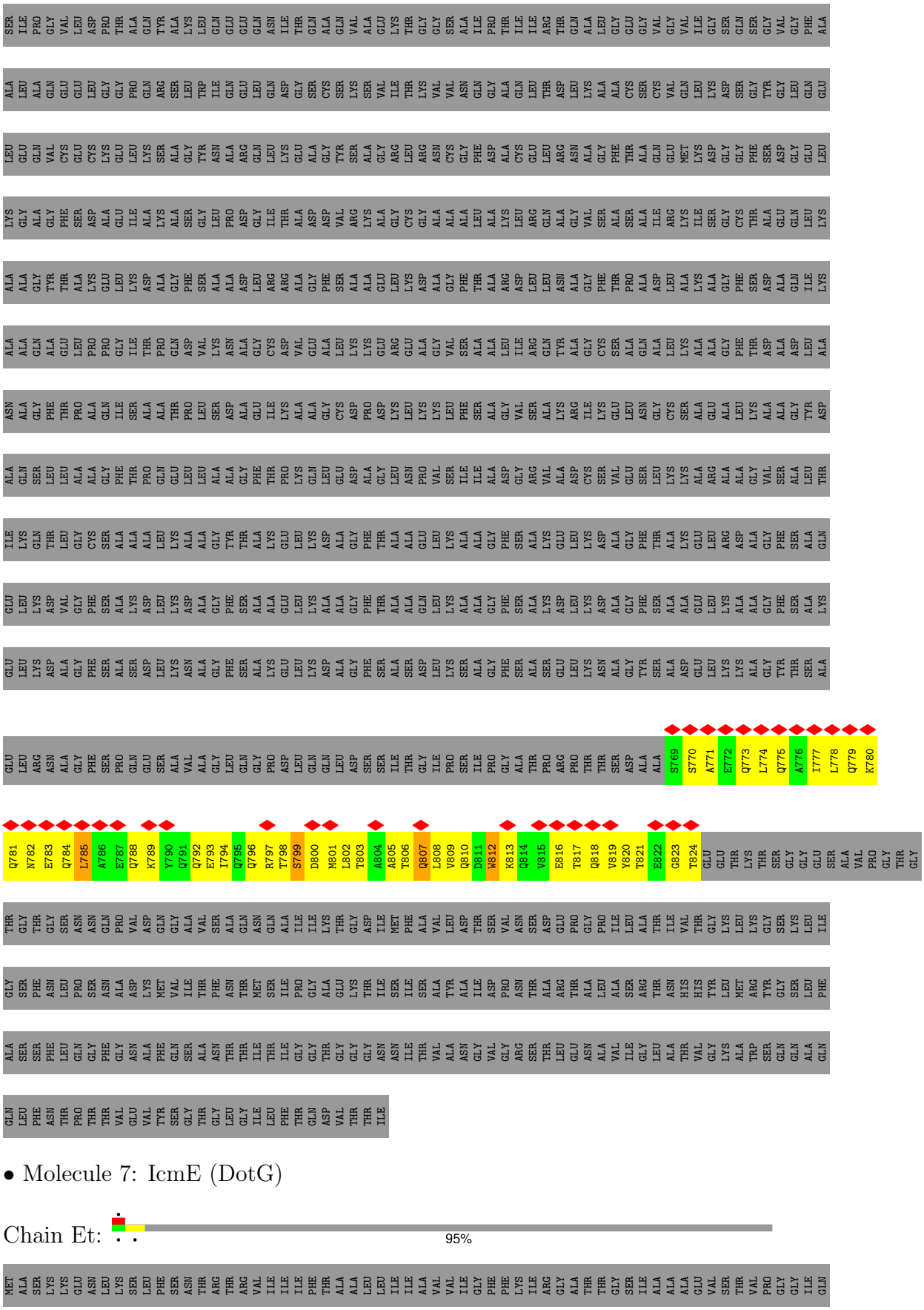
Chain Er:





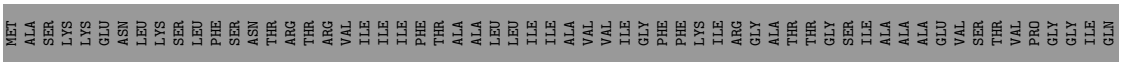
• Molecule 7: IcmE (DotG)

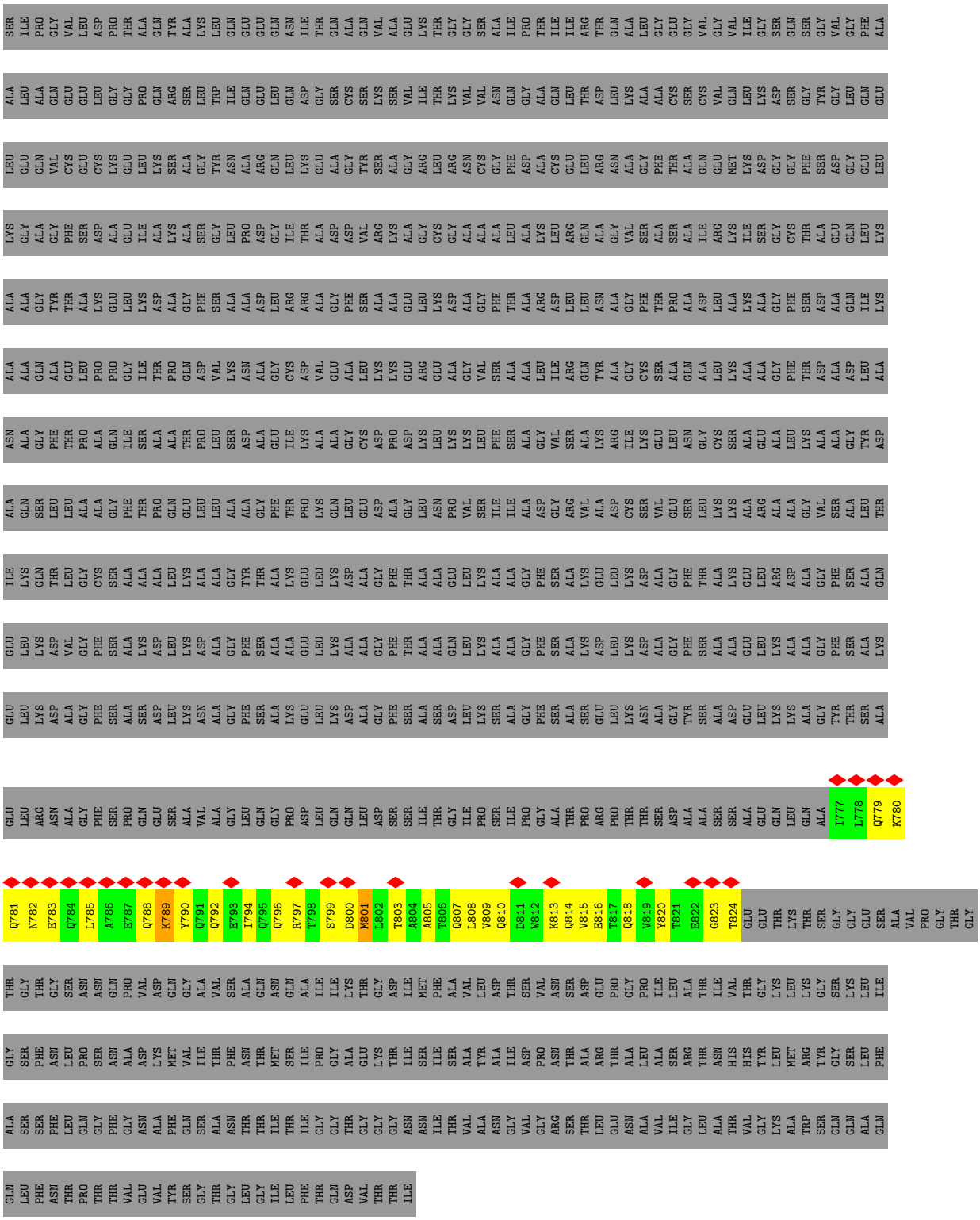
Chain Es:



• Molecule 7: IcmE (DotG)

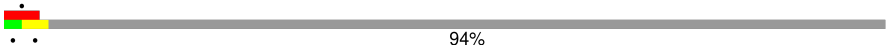
Chain Et:

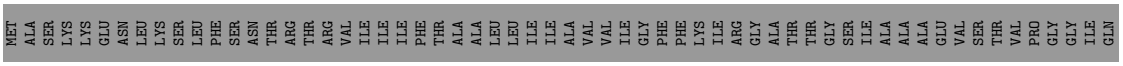


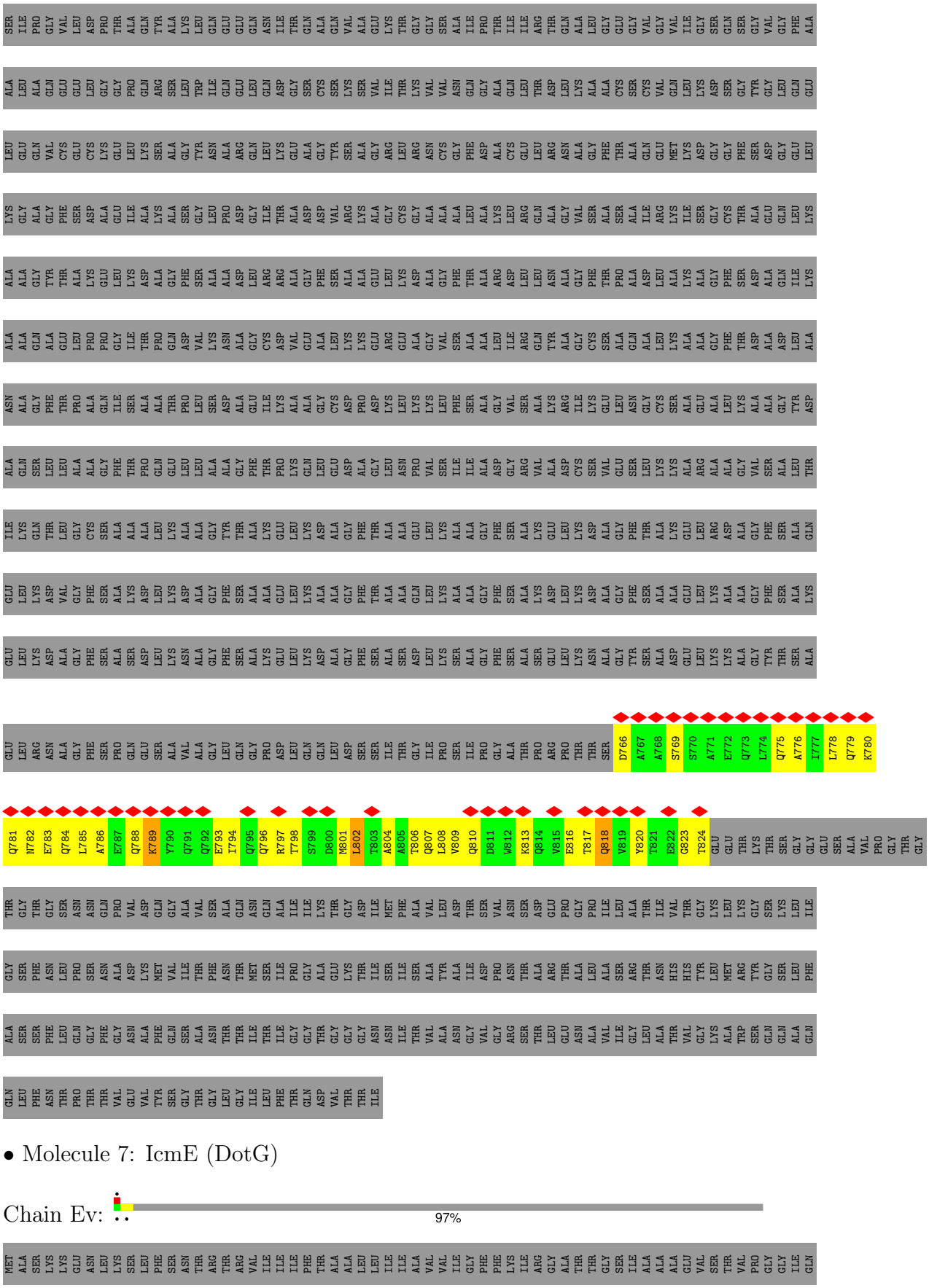


• Molecule 7: IcmE (DotG)

Chain Eu:

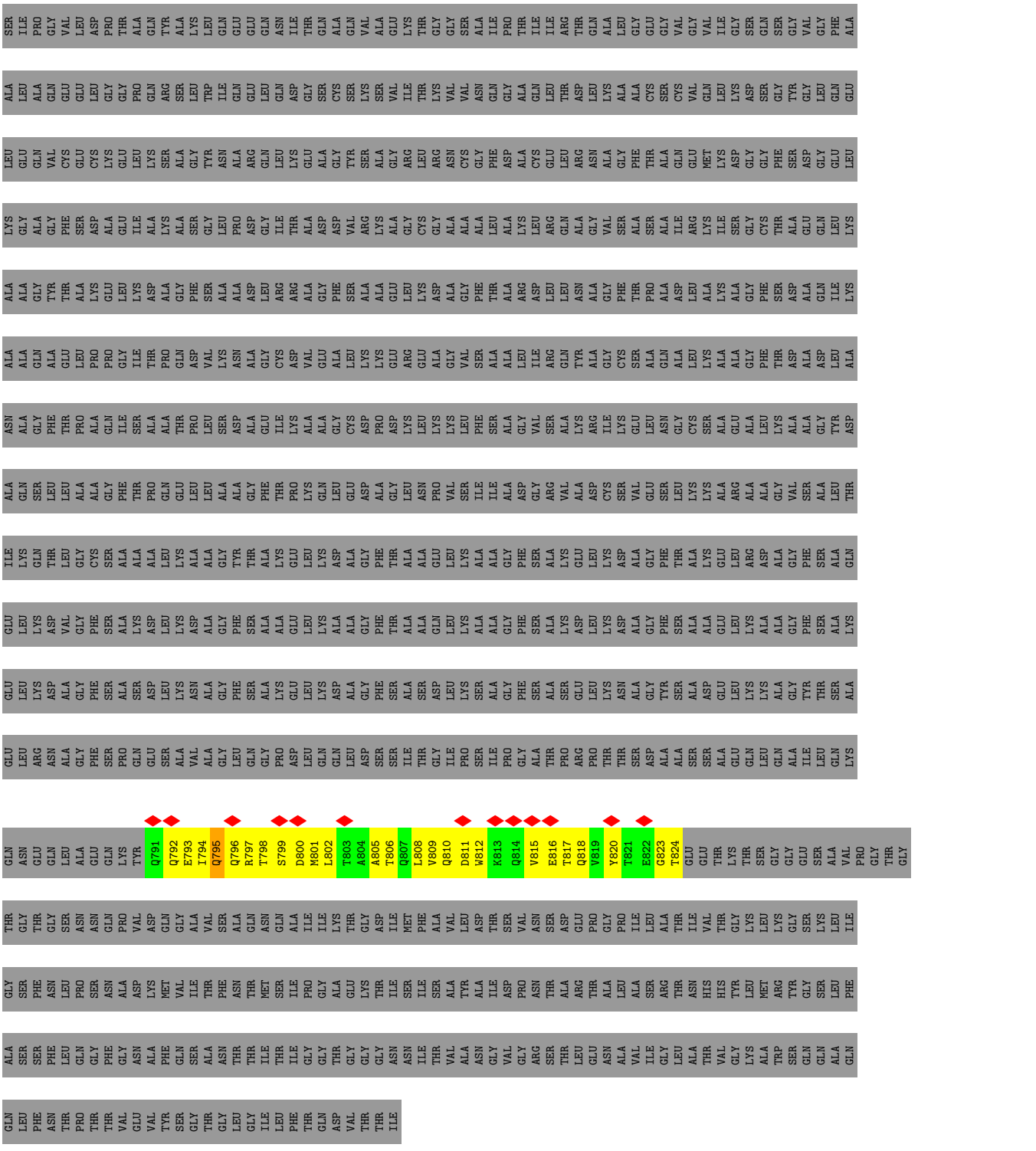






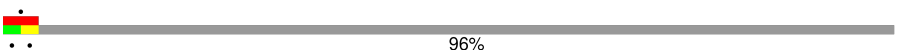
• Molecule 7: IcmE (DotG)

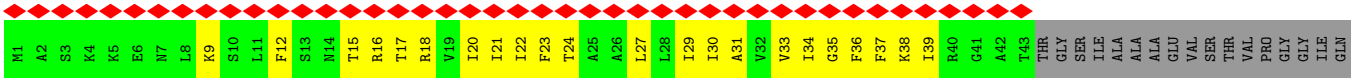
Chain Ev: 97%

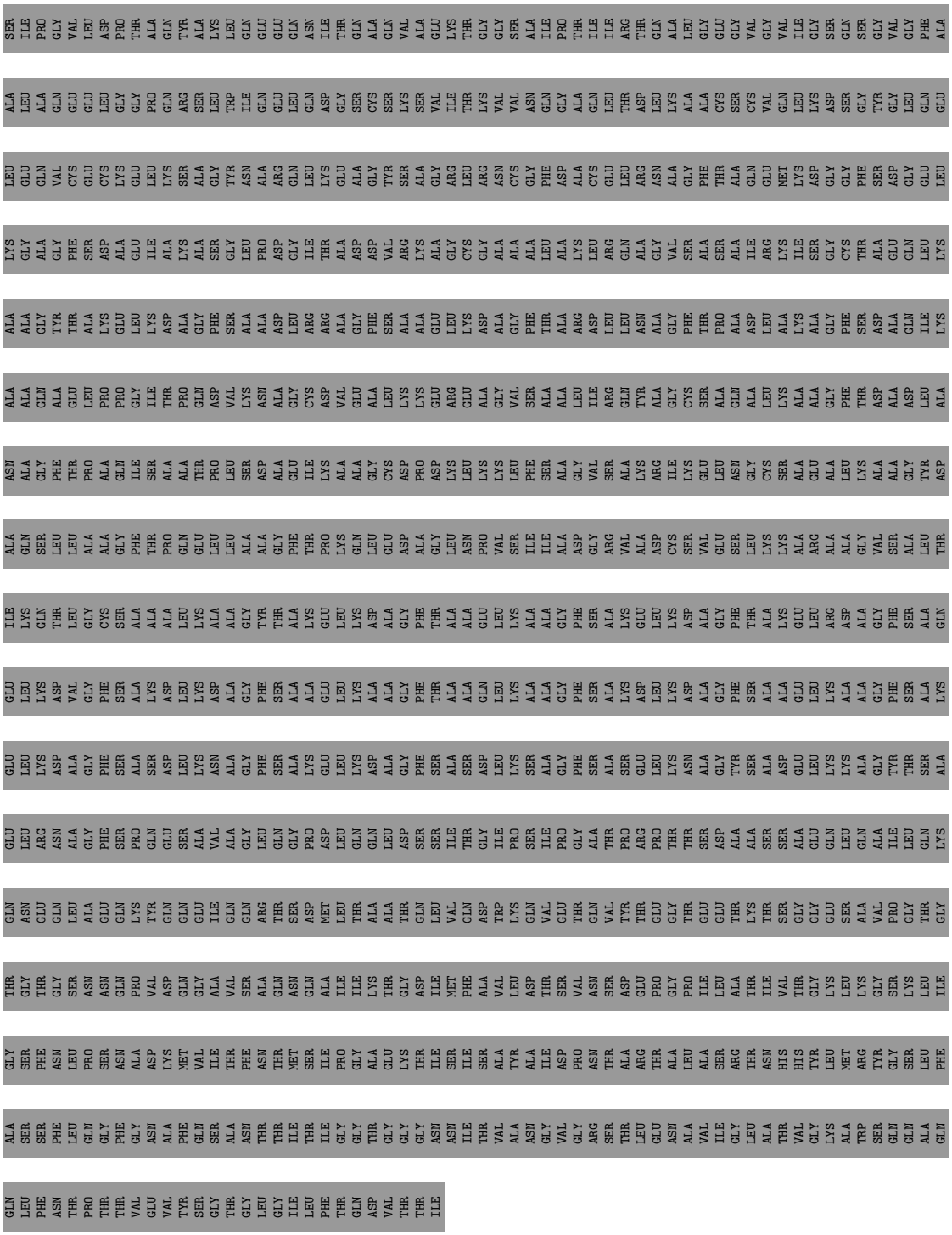


• Molecule 7: IcmE (DotG)

Chain Fg:

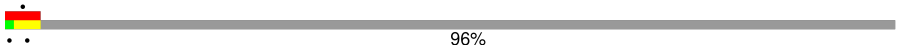


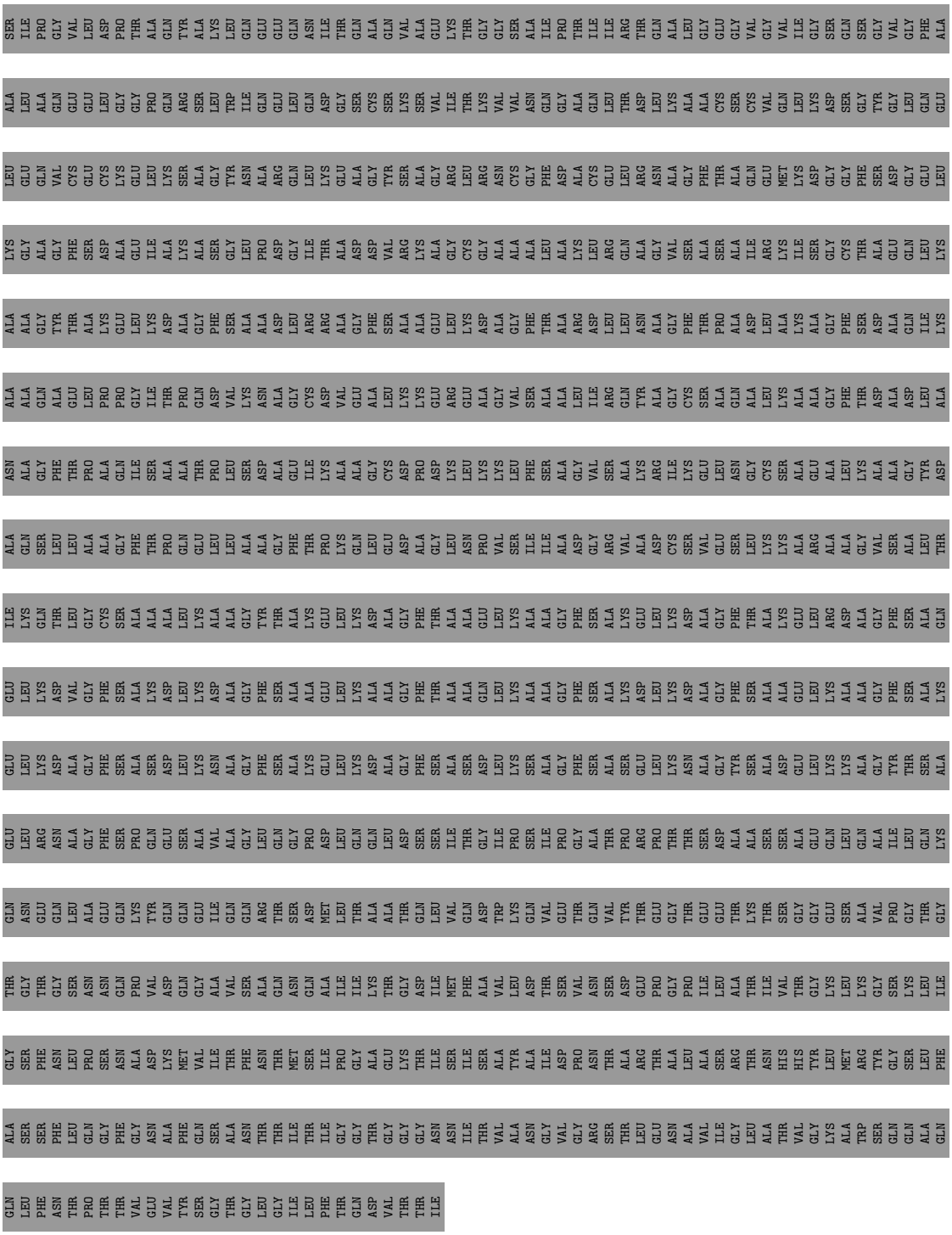




• Molecule 7: IcmE (DotG)

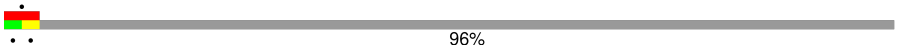
Chain Fh:

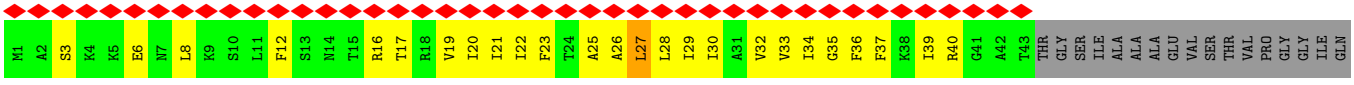


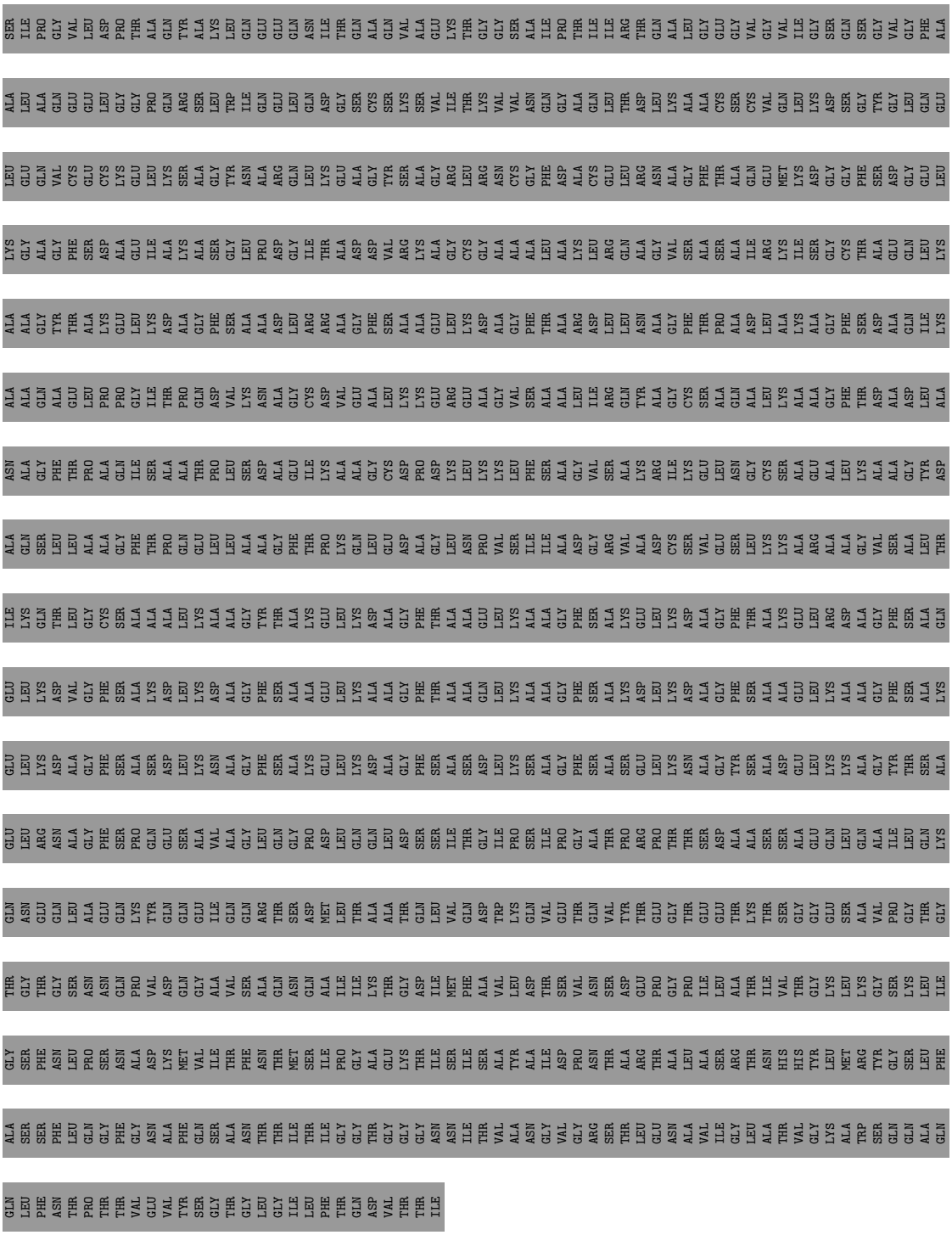


• Molecule 7: IcmE (DotG)

Chain Fi:

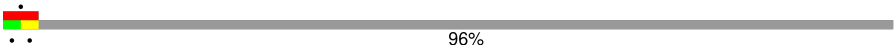


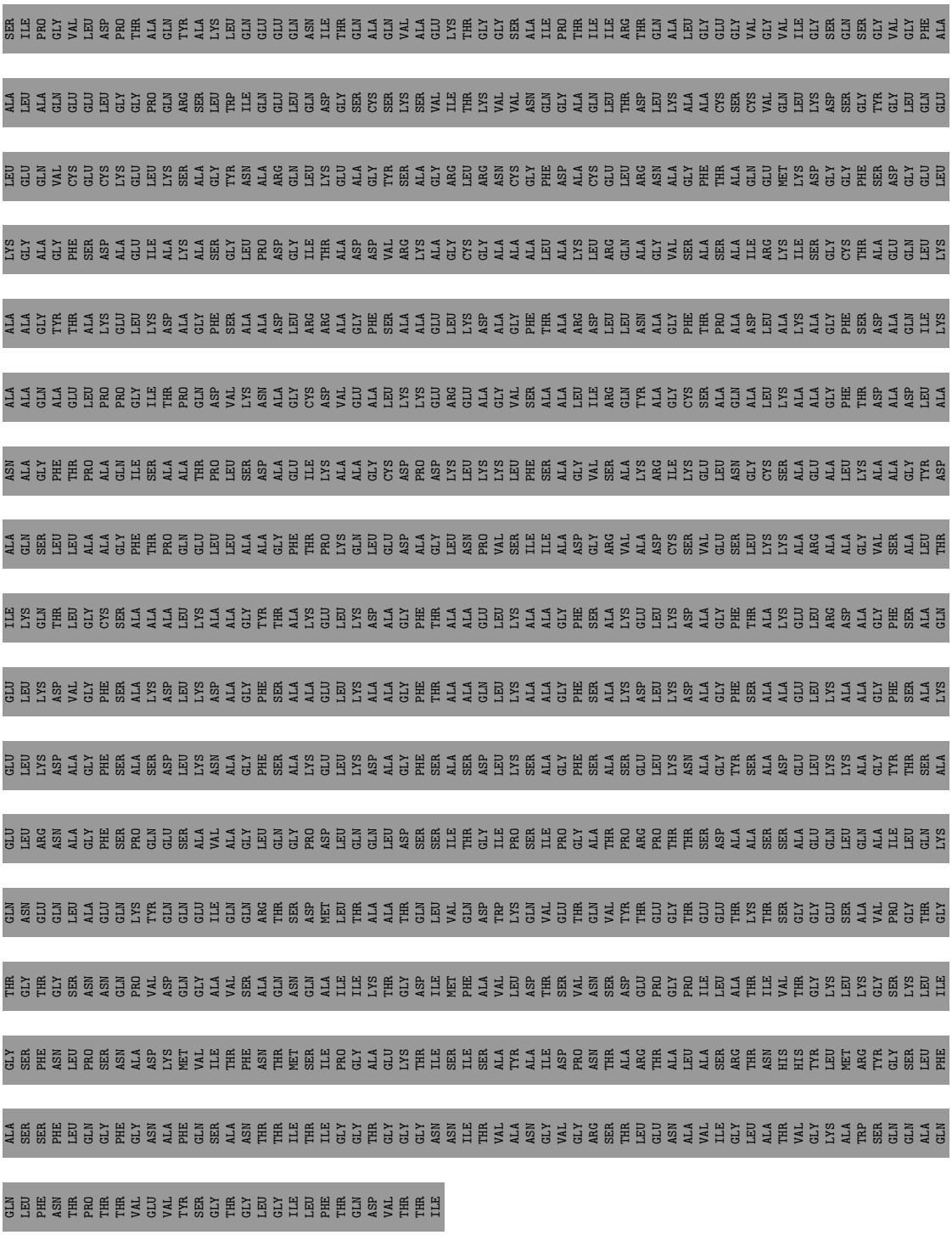




• Molecule 7: IcmE (DotG)

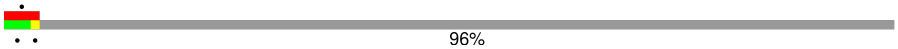
Chain Fj:

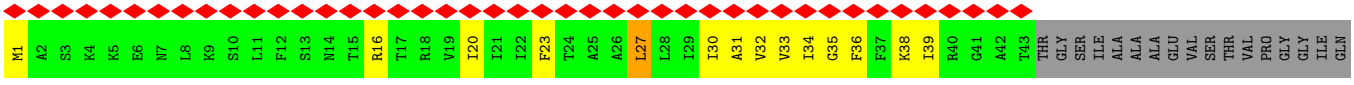


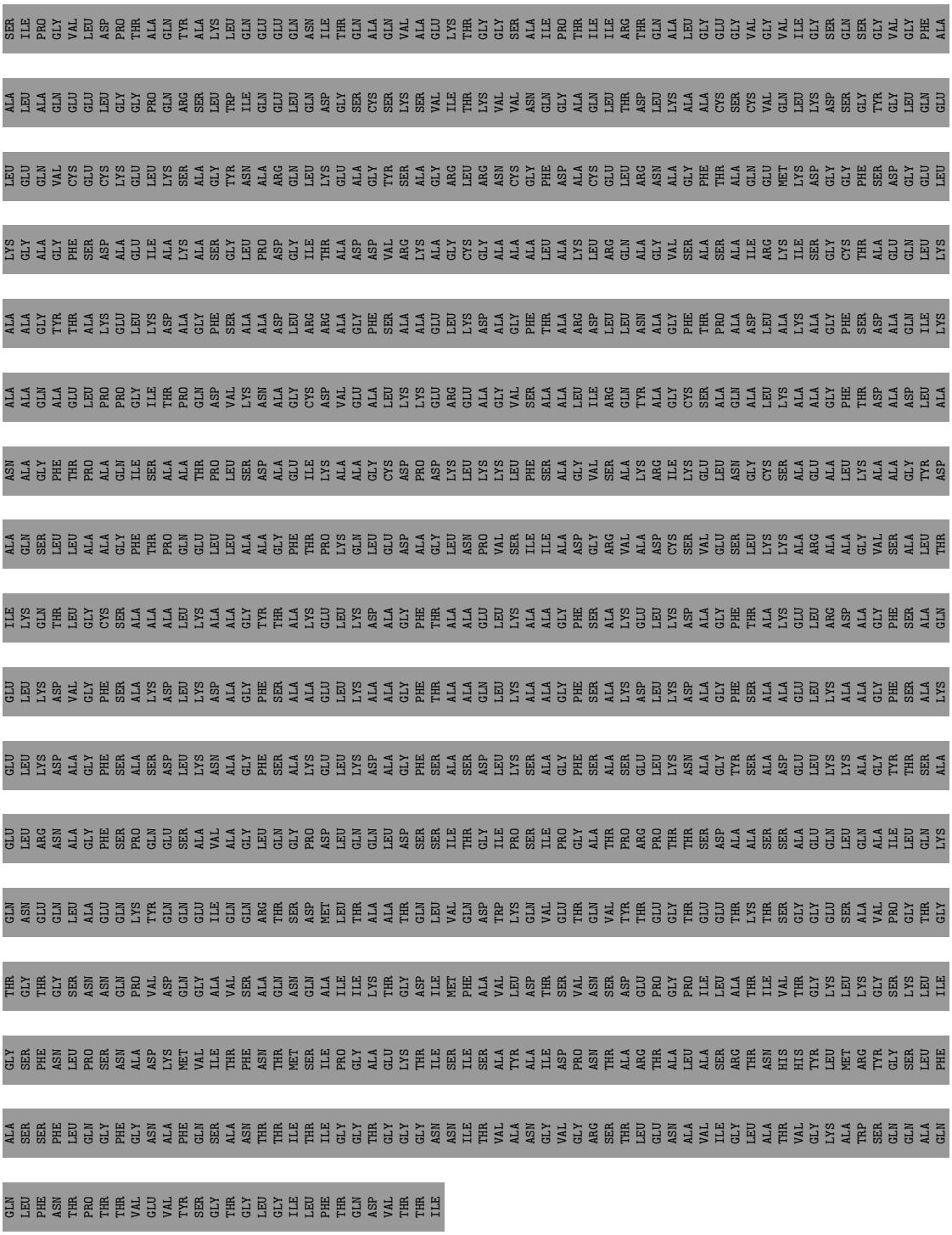


• Molecule 7: IcmE (DotG)

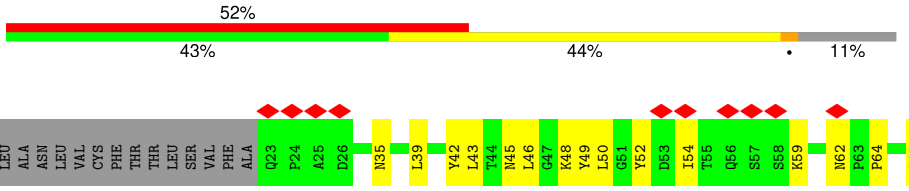
Chain Fk:

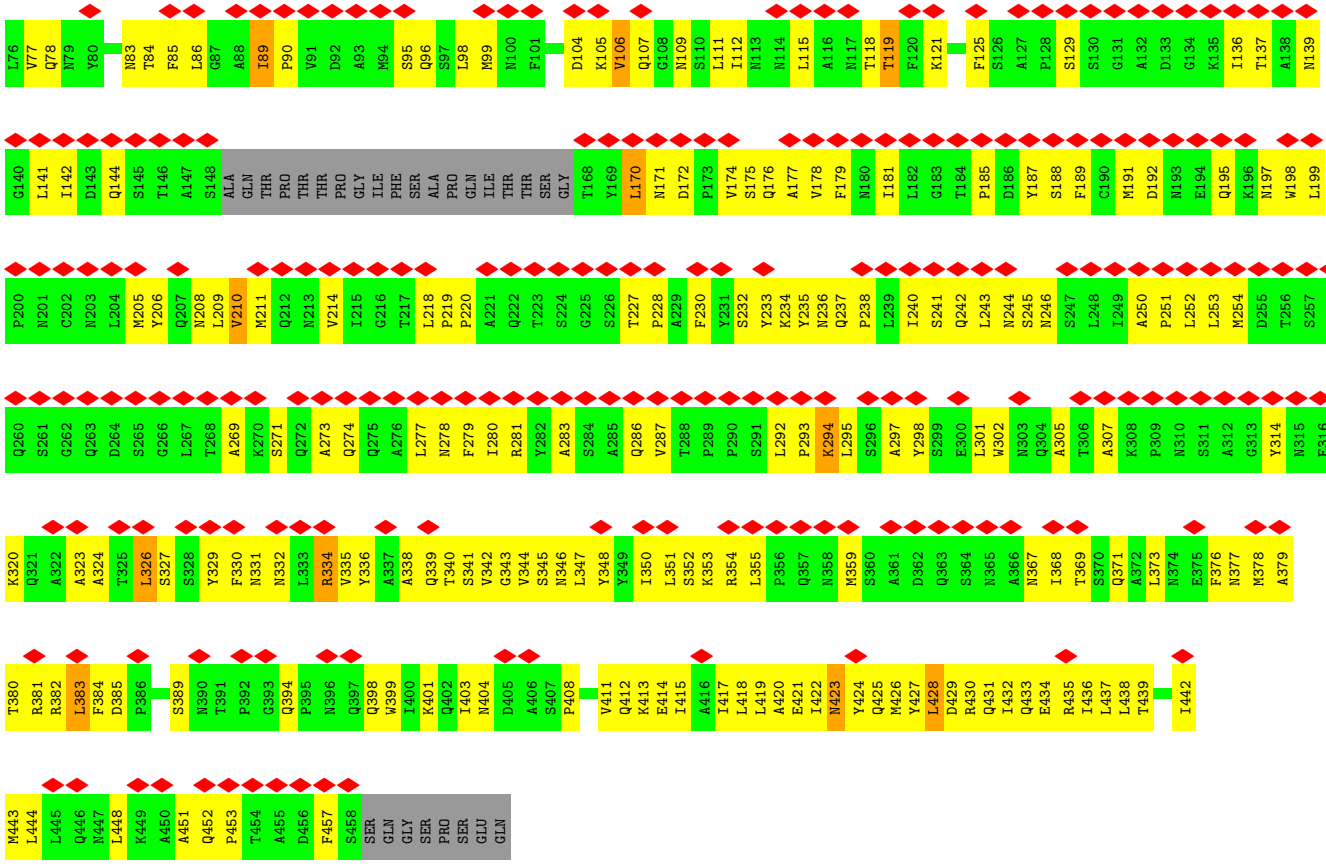




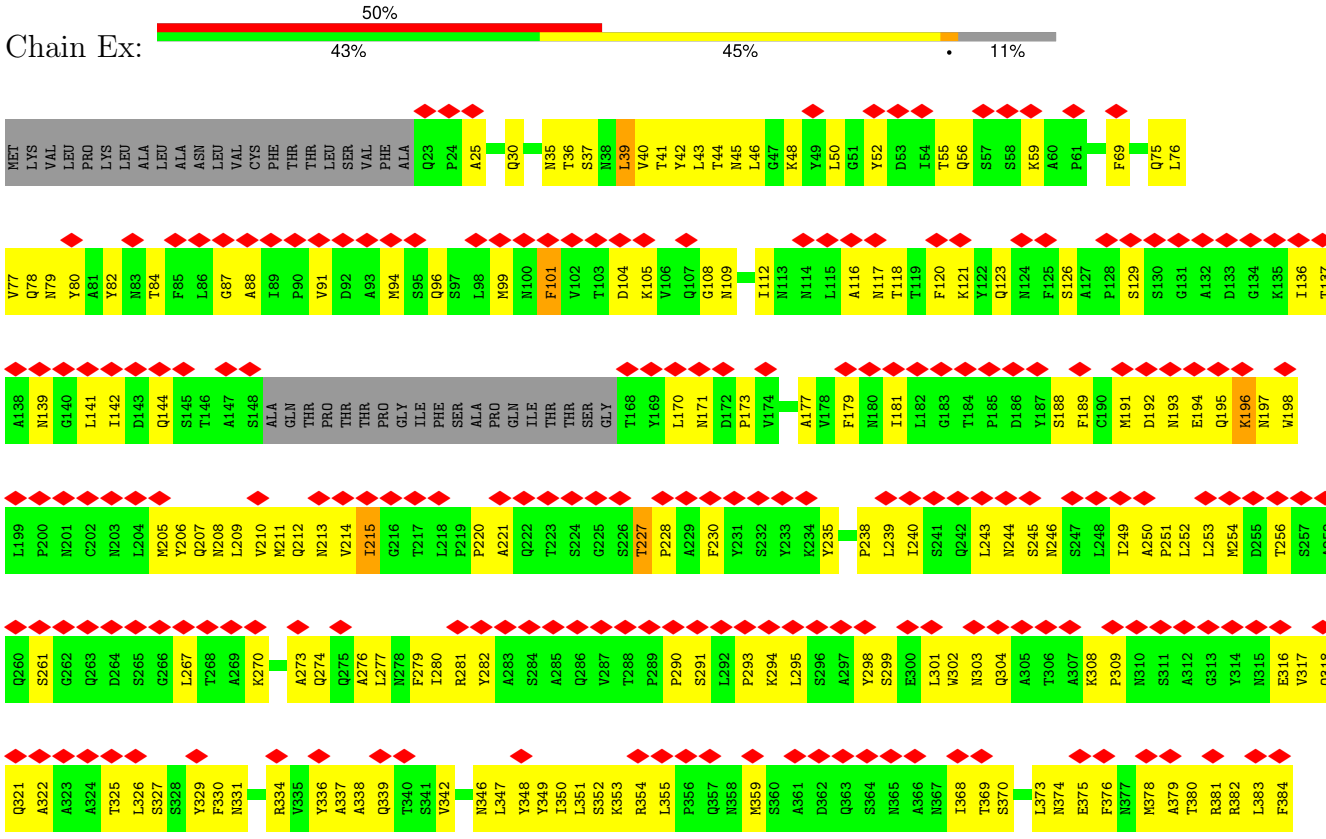


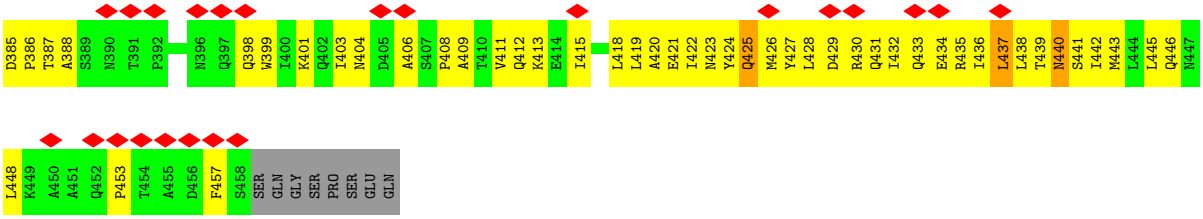
• Molecule 8: IcmX (IcmY)





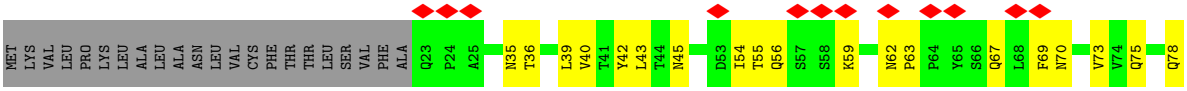
• Molecule 8: IcmX (IcmY)

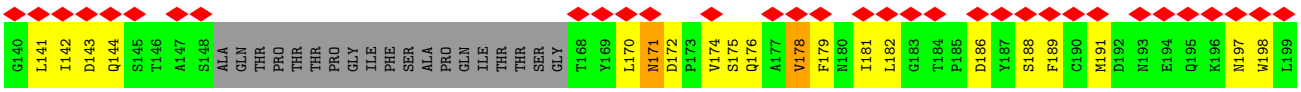


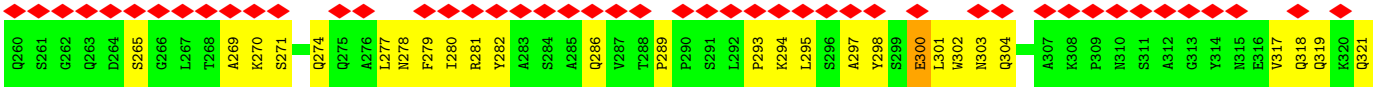


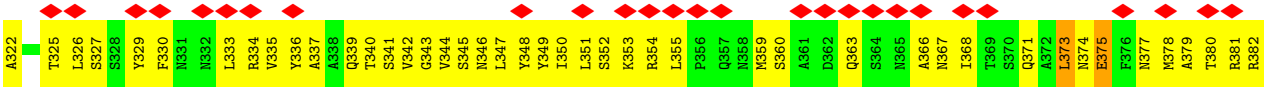
• Molecule 8: IcmX (IcmY)

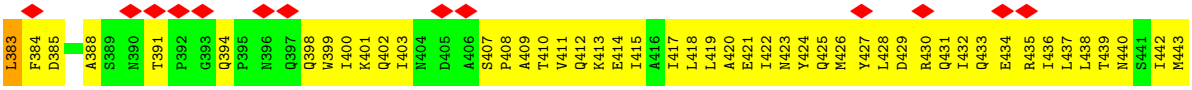
Chain Ey:

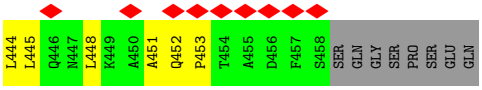






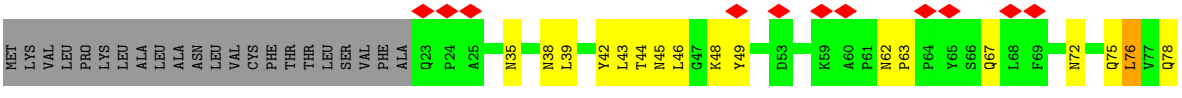


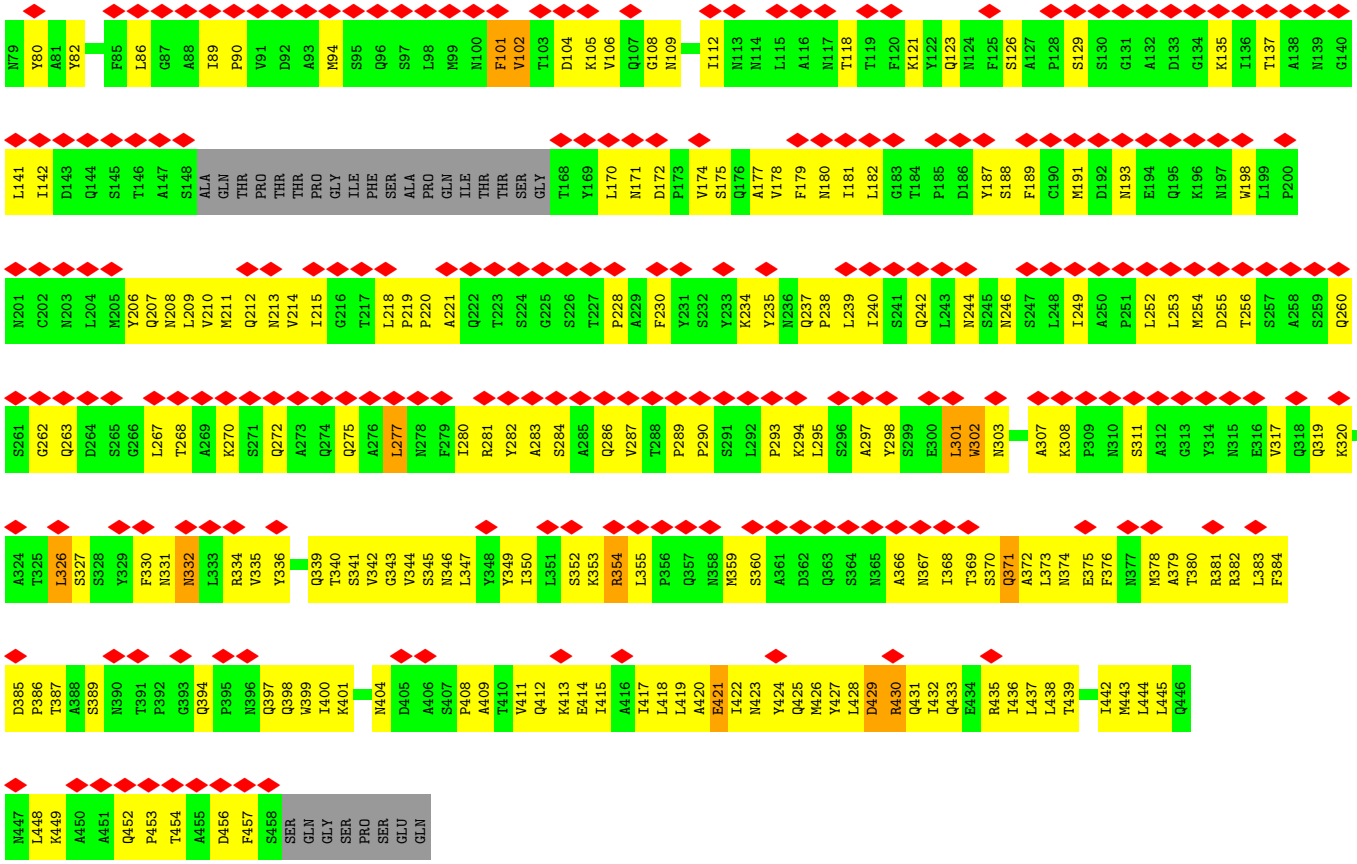




• Molecule 8: IcmX (IcmY)

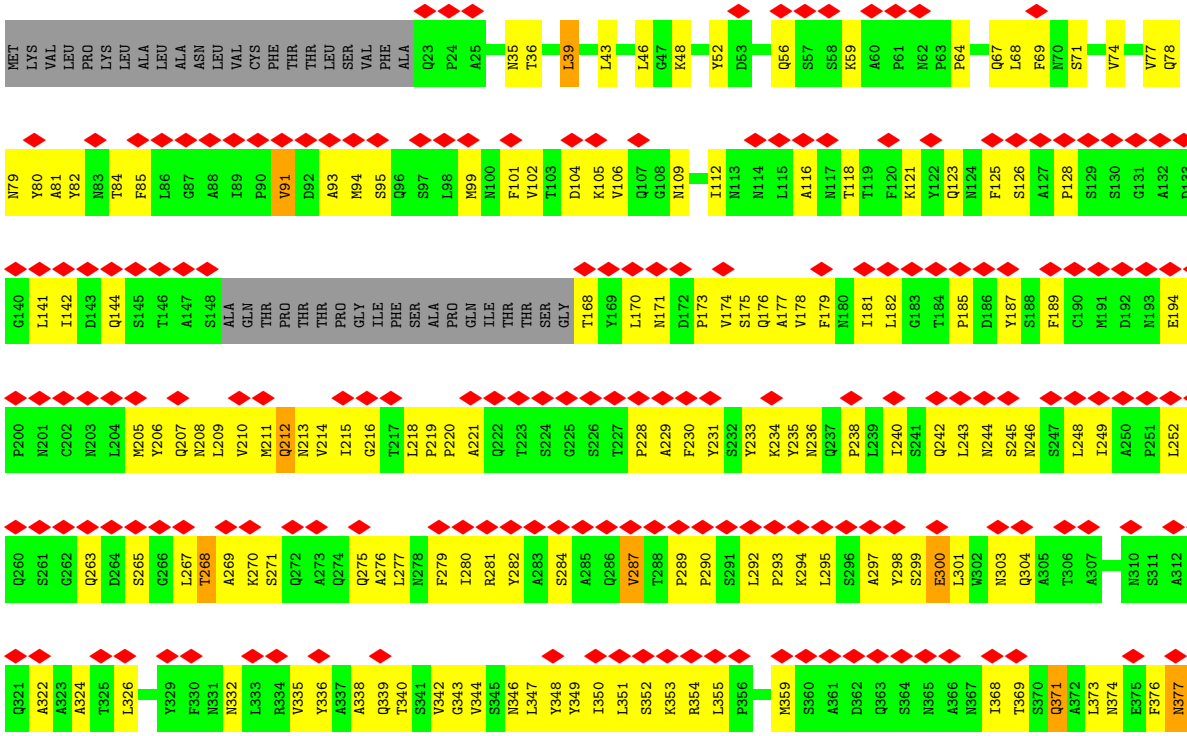
Chain Ez:





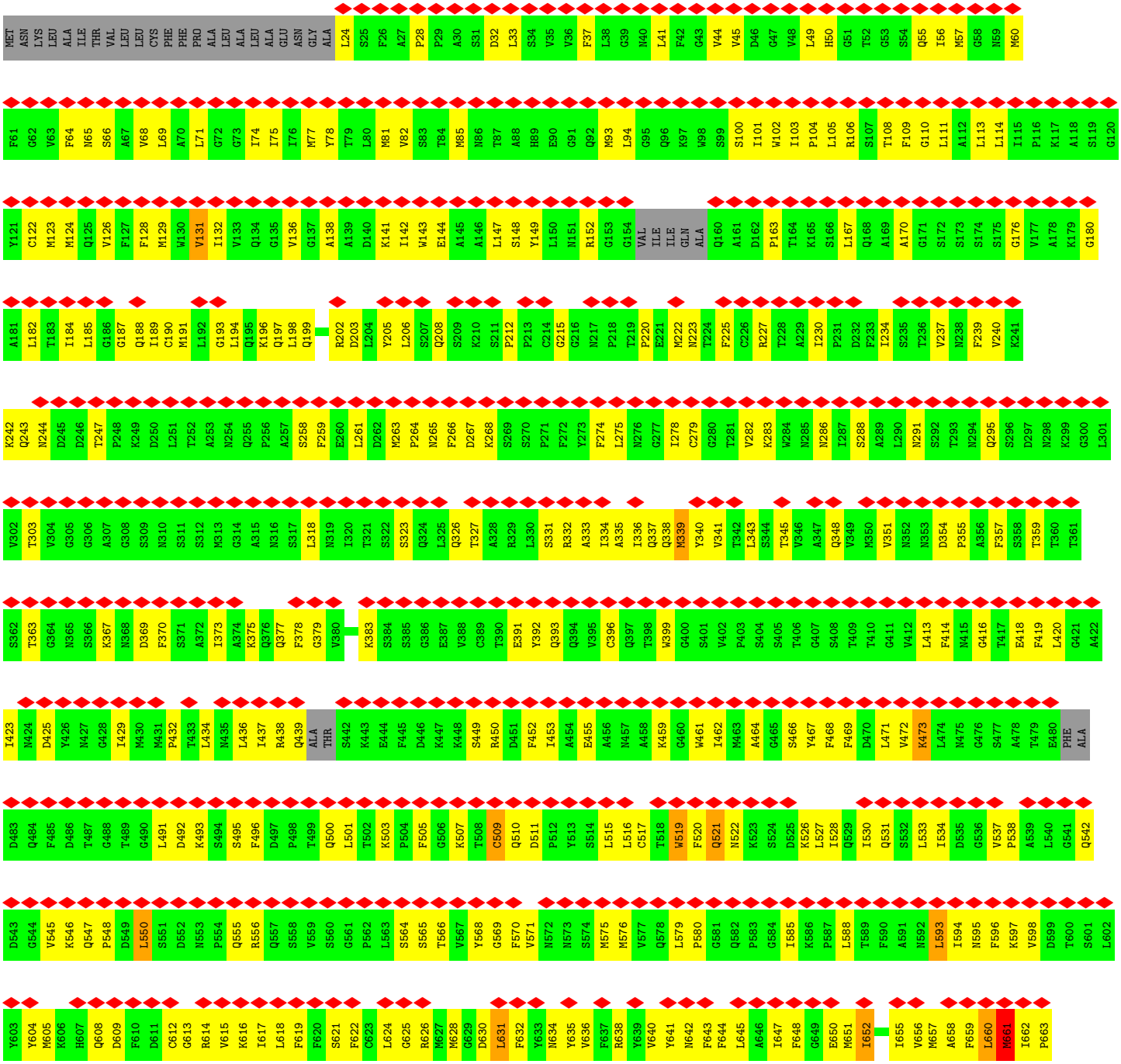
• Molecule 8: IcmX (IcmY)

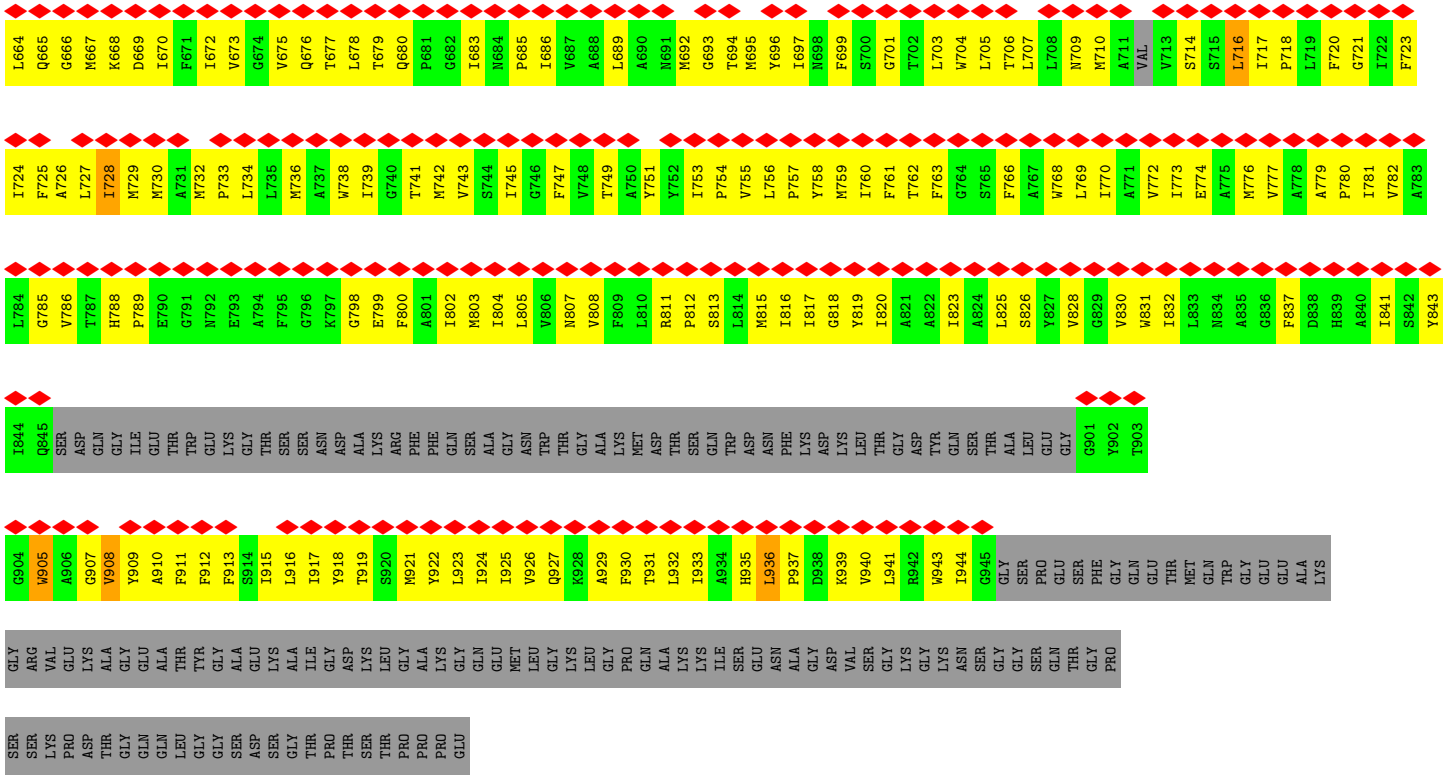
Chain Fa:



• Molecule 9: DotA

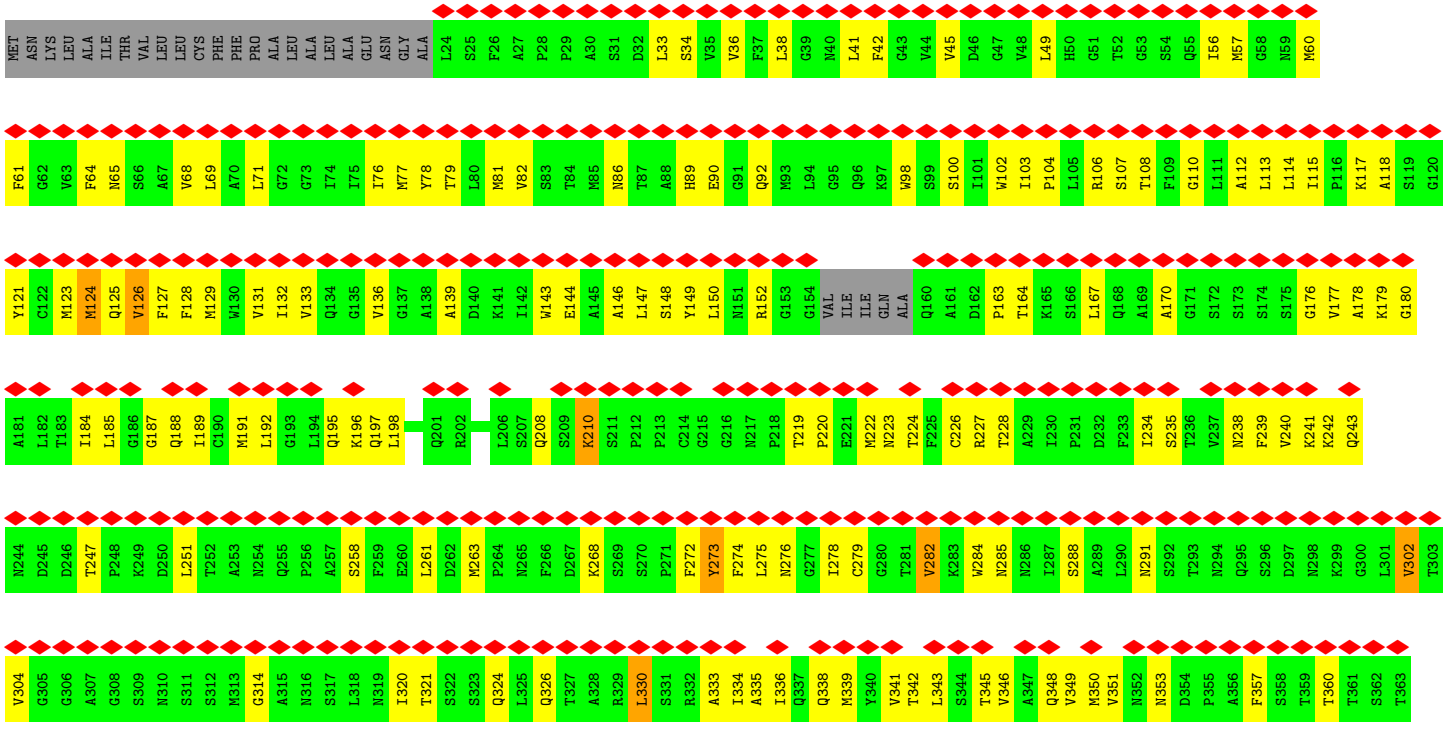
Chain Fb:

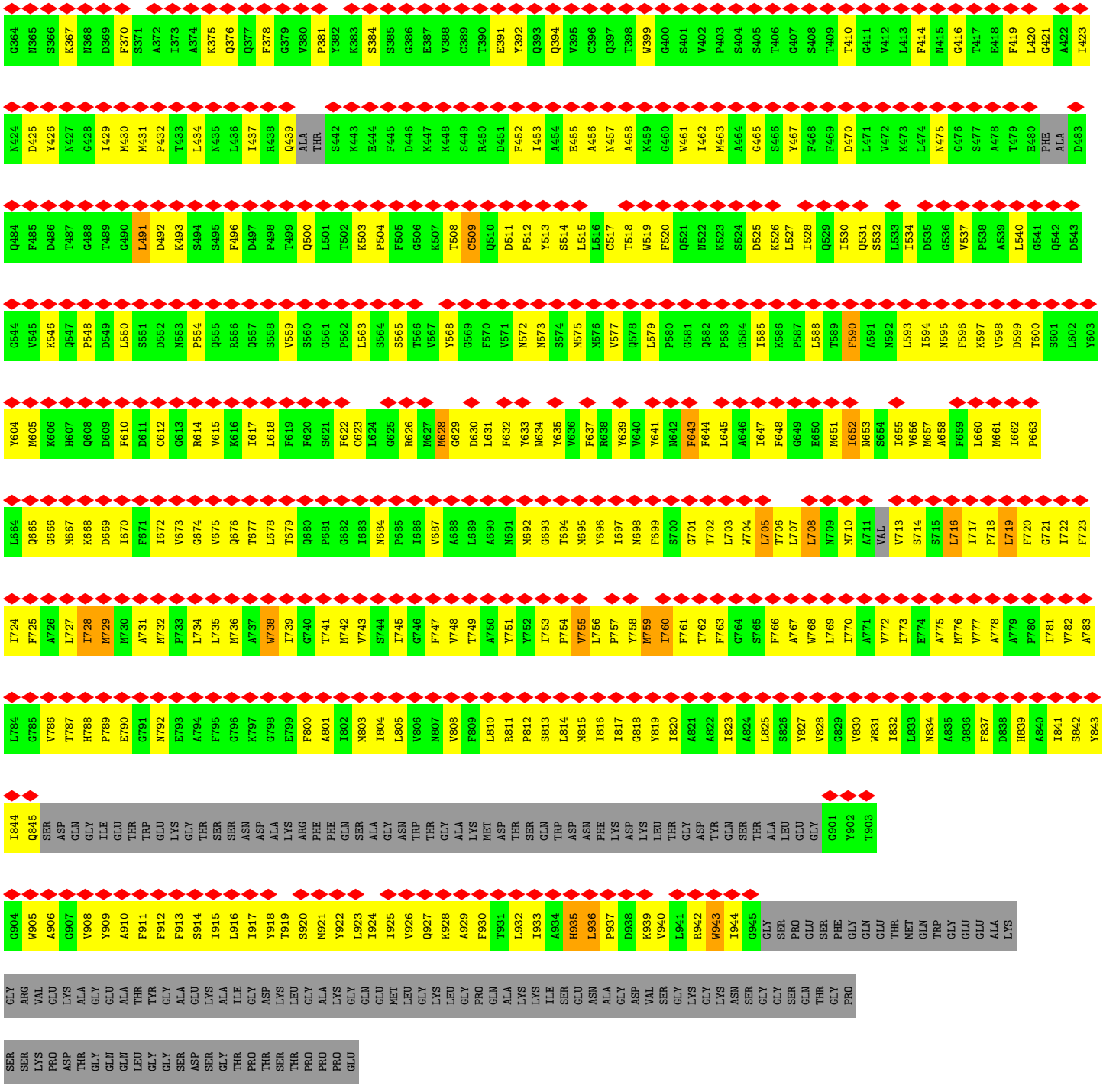




• Molecule 9: DotA

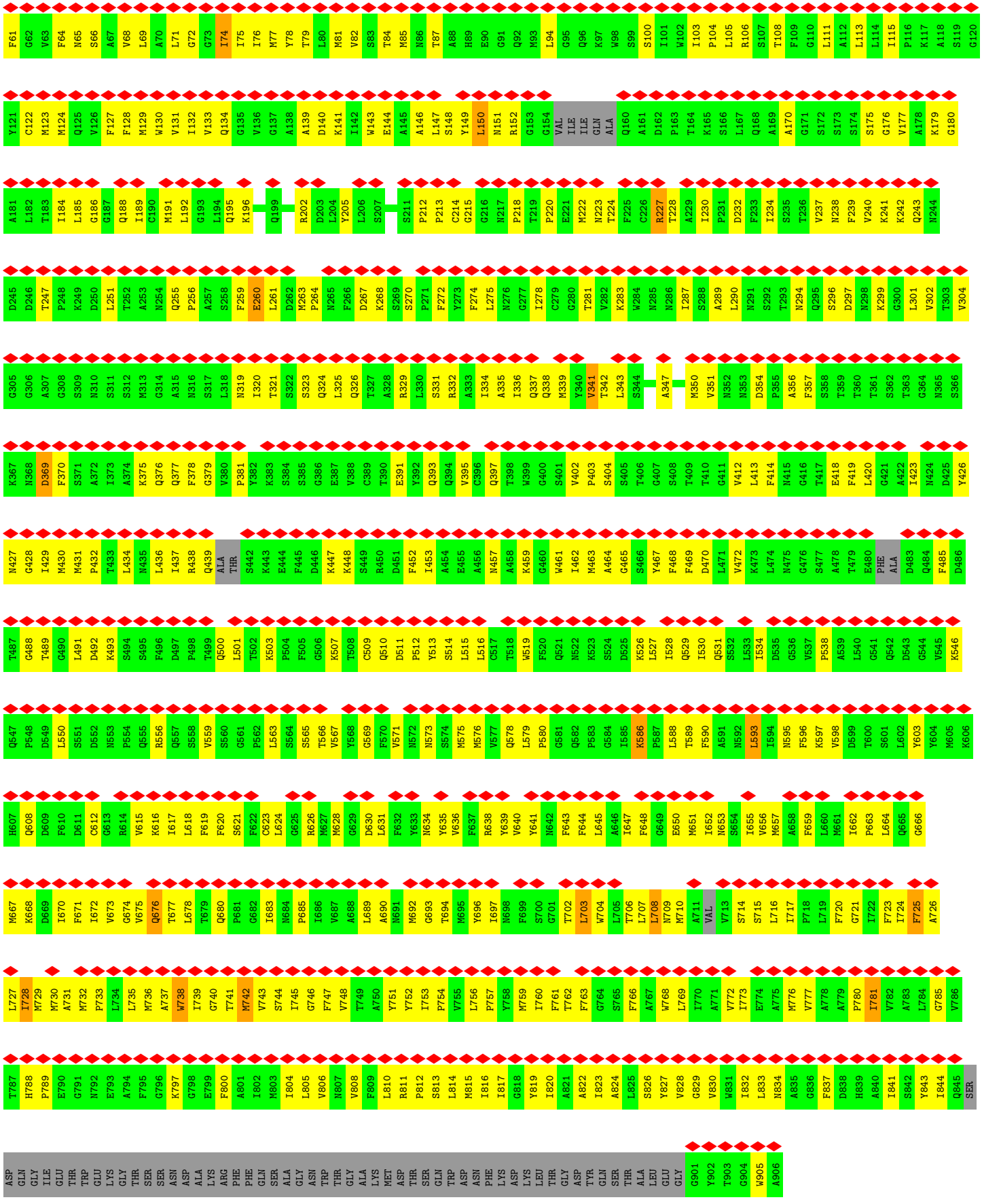
Chain Fc:





• Molecule 9: DotA

Chain Fd: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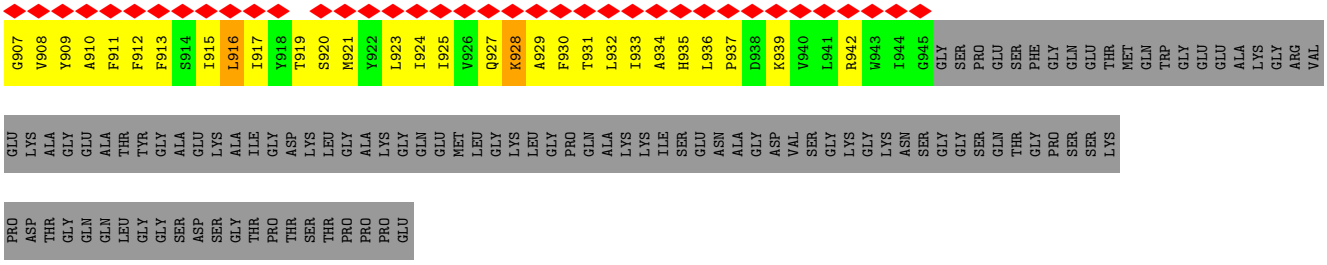
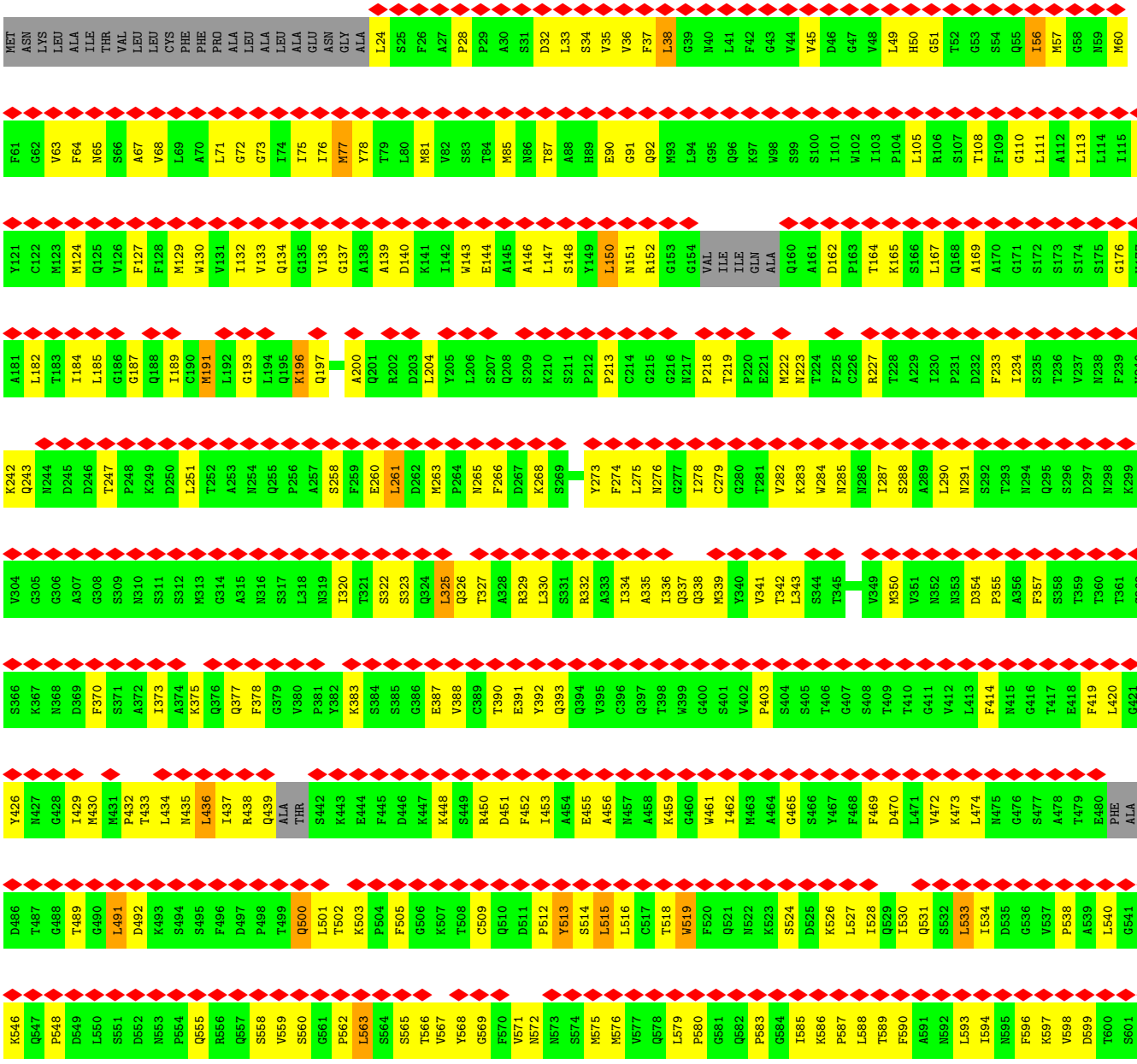
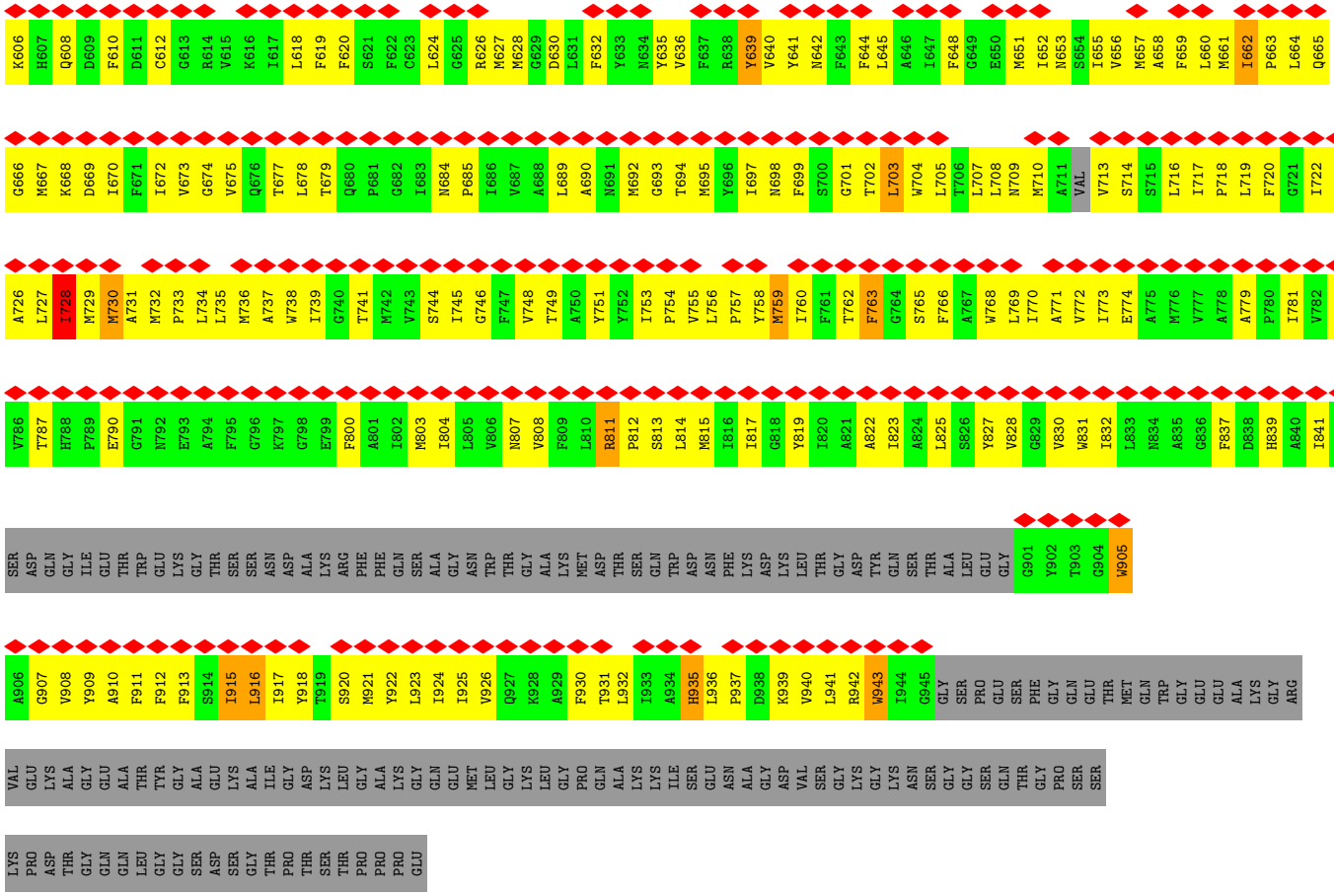
Y121 C122 M123 M124 Q125 V126 F127 F128 M129 W130 V131 I132 V133 Q134 G135 V136 G137 A138 A139 D140 K141 I142 W143 E144 A145 A146 L147 S148 Y149 L150 N151 R152 G153 G154 VAL ILE ILE GLN ALA Q160 A161 D162 P163 T164 K165 S166 L167 Q168 A169 A170 G171 S172 S173 S174 S175 G176 V177 A178 K179 G180
A181 L182 T183 I184 L185 G186 G187 Q188 I189 C190 M191 L192 G193 L194 Q195 K196 Q199 R202 D203 L204 Y205 L206 S207 S211 P212 P213 C214 G215 G216 N217 P218 T219 P220 E221 M222 N223 T224 F225 C226 R227 T228 A229 I230 P231 D232 F233 I234 S235 T236 V237 N238 F239 V240 K241 K242 Q243 N244
D245 D246 T247 P248 K249 D250 L251 T252 A253 N254 Q255 P256 A257 S258 F259 E260 L261 D262 M263 P264 N265 F266 D267 K268 S269 S270 P271 F272 Y273 F274 L275 N276 G277 I278 C279 G280 T281 V282 K283 W284 N285 N286 I287 S288 A289 L290 N291 S292 T293 N294 Q295 S296 D297 N298 K299 G300 L301 V302 T303 V304
G305 G306 A307 G308 S309 N310 S311 S312 M313 G314 A315 N316 S317 L318 N319 I320 T321 S322 S323 Q324 L325 Q326 T327 A328 R329 L330 S331 R332 A333 I334 A335 I336 Q337 Q338 M339 Y340 V341 T342 L343 S344 A347 M350 V351 N352 N353 D354 P355 A356 F357 S358 T359 T360 T361 S362 T363 G364 N365 S366
K367 N368 D369 F370 S371 A372 I373 A374 K375 Q376 Q377 F378 G379 V380 P381 Y382 K383 S384 S385 G386 E387 V388 C389 T390 E391 Y392 Q393 Q394 V395 C396 Q397 T398 W399 G400 S401 V402 P403 S404 S405 T406 G407 S408 T409 T410 G411 V412 L413 F414 N415 G416 T417 E418 F419 L420 G421 A422 I423 N424 D425 Y426
N427 G428 I429 M430 M431 P432 T433 L434 N435 L436 I437 R438 Q439 ALA THR S442 K443 E444 F445 D446 K447 K448 S449 R450 D451 F452 I453 A454 E455 A456 N457 A458 K459 G460 W461 I462 M463 A464 G465 S466 Y467 F468 F469 D470 L471 V472 K473 L474 N475 G476 S477 A478 T479 E480 PHE ALA D483 Q484 F485 D486
T487 G488 T489 G490 L491 D492 K493 S494 S495 F496 D497 P498 T499 Q500 L501 T502 K503 P504 F505 G506 K507 T508 C509 Q510 D511 P512 Y513 S514 L515 L516 C517 T518 W519 F520 Q521 N522 K523 S524 D525 K526 L527 I528 Q529 I530 Q531 S532 L533 I534 D535 G536 V537 P538 A539 L540 G541 Q542 D543 G544 V545 K546
Q547 P548 D549 L550 S551 D552 N553 P554 Q555 R556 Q557 S558 V559 S560 G561 P562 L563 S564 S565 T566 V567 Y568 G569 F570 V571 N572 N573 S574 M575 M576 V577 Q578 L579 P580 G581 Q582 P583 G584 I585 K586 P587 L588 T589 F590 A591 N592 L593 I594 N595 F596 K597 V598 D599 T600 S601 L602 Y603 Y604 M605 K606
H607 Q608 D609 F610 D611 C612 G613 R614 V615 K616 I617 L618 F619 F620 S621 F622 C623 L624 G625 R626 M627 M628 G629 D630 L631 F632 Y633 N634 Y635 V636 F637 R638 Y639 V640 Y641 N642 F643 F644 L645 A646 I647 F648 G649 E650 M651 I652 N653 S654 I655 V656 M657 A658 F659 L660 M661 I662 P663 L664 Q665 G666
M667 K668 D669 I670 F671 I672 V673 G674 V675 Q676 T677 L678 T679 Q680 P681 G682 I683 N684 P685 I686 V687 A688 L689 A690 M691 M692 G693 T694 M695 Y696 I697 N698 F699 S700 G701 T702 L703 W704 L705 T706 L707 L708 N709 M710 A711 VAL V713 S714 S715 L716 I717 P718 L719 F720 G721 I722 F723 I724 F725 A726
L727 T728 M729 M730 A731 M732 P733 L734 L735 M736 A737 W738 I739 G740 T741 M742 V743 S744 I745 G746 F747 V748 T749 A750 Y751 Y752 I753 P754 V755 L756 P757 Y758 M759 I760 F761 T762 F763 G764 S765 F766 A767 W768 L769 I770 A771 V772 I773 E774 A775 M776 V777 A778 A779 F780 I781 V782 A783 L784 G785 V786
T787 H788 P789 E790 G791 N792 E793 A794 F795 G796 K797 G798 E799 F800 A801 I802 M803 I804 L805 V806 N807 V808 F809 L810 R811 P812 S813 L814 M815 I816 I817 G818 Y819 I820 A821 A822 I823 A824 L825 S826 Y827 V828 G829 V830 W831 I832 L833 N834 A835 G836 F837 D838 H839 A840 I841 S842 Y843 I844 Q845 SER
ASP GLN GLY ILE GLU THR TRP GLU LYS GLY THR SER ASN ASP ALA LYS ARG PHE PHE GLN SER ALA ALA GLY ASN TRP THR THR GLY ALA LYS MET ASP THR SER GLN TRP ASP ASN PHE LYS ASP LYS LEU THR GLY ASP TYR GLN SER THR ALA LEU GLU GLY G901 Y902 T903 G904 W905 A906



• Molecule 9: DotA

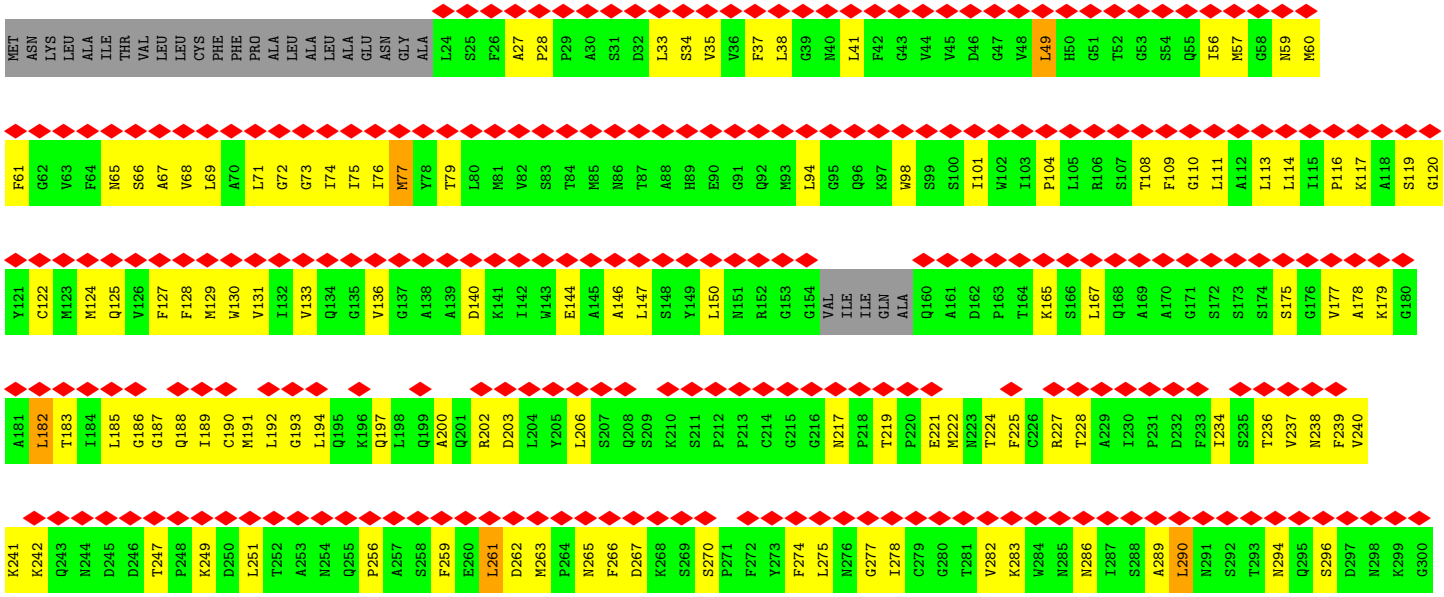
Chain Fe:

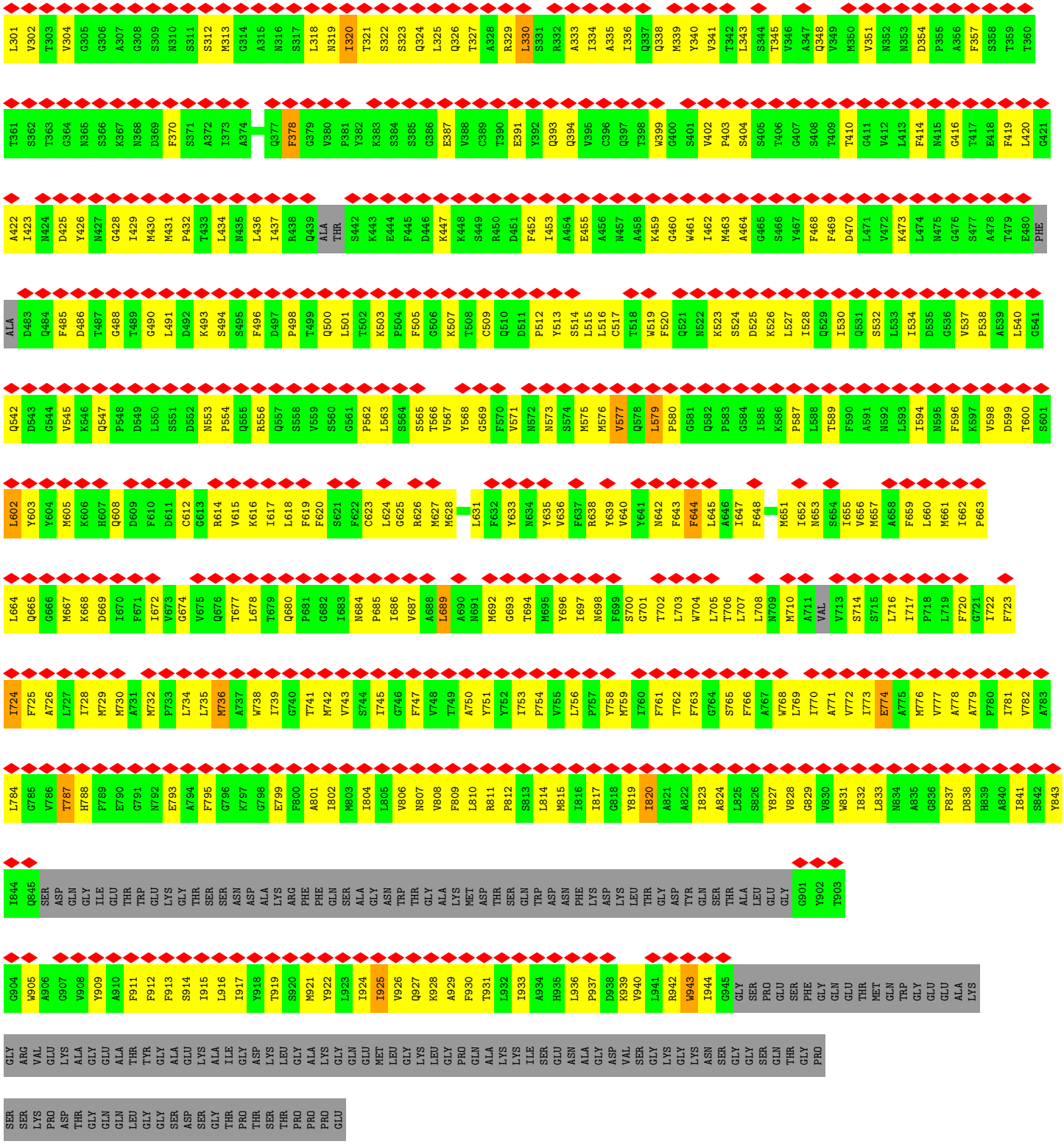




• Molecule 9: DotA

Chain Ff:




L301 V302 T303 V304 G305 G306 A307 G308 S309 N310 S311 S312 M313 G314 A315 N316 S317 L318 N319 I320 T321 S322 S323 Q324 L325 Q326 T327 A328 R329 L330 S331 R332 A333 I334 A335 I336 Q337 Q338 M339 Y340 V341 T342 L343 S344 T345 V346 A347 Q348 V349 M350 V351 N352 N353 D354 P355 A356 F357 S358 T359 T360
T361 S362 T363 G364 N365 S366 K367 N368 D369 F370 S371 A372 I373 A374 Q377 F378 G379 V380 P381 Y382 K383 S384 S385 G386 E387 V388 C389 T390 E391 Y392 Q393 Q394 V395 C396 Q397 T398 W399 G400 S401 V402 P403 S404 S405 T406 G407 S408 T409 T410 G411 V412 L413 F414 N415 G416 T417 E418 F419 L420 G421
A422 I423 N424 D425 Y426 N427 G428 I429 M430 M431 P432 T433 L434 N435 L436 I437 R438 Q439 ALA THR S442 K443 E444 F445 D446 K447 K448 S449 R450 D451 F452 I453 A454 E455 A456 N457 A458 K459 G460 W461 I462 M463 A464 G465 S466 Y467 F468 F469 D470 L471 V472 K473 L474 N475 G476 S477 A478 T479 E480 PHE
ALA D483 Q484 F485 D486 T487 G488 T489 G490 L491 D492 K493 S494 S495 F496 D497 P498 T499 Q500 L501 T502 K503 P504 F505 G506 K507 T508 C509 Q510 D511 P512 Y513 S514 L515 L516 C517 T518 W519 F520 Q521 N522 K523 S524 D525 K526 L527 I528 Q529 I530 Q531 S532 L533 I534 D535 G536 V537 P538 A539 L540 G541
Q542 D543 G544 V545 K546 Q547 P548 D549 L550 S551 D552 N553 P554 Q555 R556 Q557 S558 V559 S560 G561 P562 L563 S564 S565 T566 V567 Y568 G569 F570 V571 N572 N573 S574 M575 M576 V577 Q578 L579 P580 G581 Q582 P583 G584 I585 K586 P587 L588 T589 F590 A591 N592 L593 I594 N595 F596 K597 V598 D599 T600 S601
L602 Y603 Y604 M605 K606 H607 Q608 D609 F610 D611 C612 G613 R614 V615 K616 I617 L618 F619 F620 S621 F622 C623 L624 G625 R626 M627 M628 L631 F632 Y633 N634 Y635 V636 F637 R638 Y639 V640 Y641 N642 F643 F644 L645 A646 I647 F648 M651 I652 N653 S654 I655 V656 M657 A658 F659 L660 M661 I662 P663
L664 Q665 G666 M667 K668 D669 I670 F671 I672 V673 G674 V675 Q676 T677 L678 T679 Q680 P681 G682 I683 N684 P685 I686 V687 A688 L689 A690 N691 M692 G693 T694 M695 Y696 I697 N698 F699 S700 G701 T702 L703 W704 L705 T706 L707 L708 N709 M710 A711 VAL V713 S714 S715 L716 I717 P718 L719 F720 G721 I722 F723
I724 F725 A726 L727 I728 M729 M730 A731 M732 P733 L734 L735 M736 A737 W738 I739 G740 T741 M742 V743 S744 I745 G746 F747 V748 T749 A750 Y751 Y752 I753 P754 V755 L756 P757 Y758 M759 I760 F761 T762 F763 G764 S765 F766 A767 W768 L769 I770 A771 V772 I773 E774 A775 M776 V777 A778 A779 P780 I781 V782 A783
L784 G785 V786 T787 H788 P789 E790 G791 N792 E793 A794 F795 G796 K797 G798 E799 F800 A801 I802 M803 I804 L805 V806 N807 V808 P809 L810 R811 P812 S813 L814 M815 I816 I817 G818 Y819 I820 A821 A822 I823 A824 L825 S826 Y827 V828 G829 V830 W831 I832 L833 N834 A835 G836 F837 D838 H839 A840 I841 S842 Y843
I844 Q845 SER 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 GLY ALA LYS MET ASP THR SER GLN TRP ASP ASN PHE LYS ASP LYS LEU THR GLY ASP TYR GLN SER THR ALA LEU GLU GLY G901 Y902 T903
G904 W905 A906 G907 V908 Y909 A910 F911 F912 F913 S914 I915 L916 I917 Y918 T919 S920 M921 Y922 L923 I924 I925 V926 Q927 K928 A929 F930 T931 L932 I933 A934 H935 L936 P937 D938 K939 V940 L941 R942 W943 I944 G945 GLY SER PRO GLU SER PHE GLY GLN GLU THR MET GLN TRP GLY GLU GLU ALA LYS
GLY ARG VAL GLU LYS ALA GLY GLU ALA THR TYR GLY ALA GLU LYS ALA ILE GLY ASP LYS LEU GLY ALA LYS GLY GLN GLU MET LEU GLY LYS LEU GLY PRO GLN ALA LYS LYS ILE SER GLU ASN ALA GLY ASP VAL SER GLY LYS GLY LYS ASN SER GLY GLY SER GLN THR GLY PRO
SER SER LYS PRO ASP THR GLY GLN GLN LEU GLY GLY SER ASP SER GLY THR PRO THR SER THR PRO PRO PRO GLU

4 Experimental information (i)

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 ($e^-/Å^2$)	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 (Å)	640.8192, 640.8192, 640.8192	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	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(^{o})	Ideal(^{o})
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(^{o})	Ideal(^{o})
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(^{o})	Ideal(^{o})
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:Dl:131:LYS:NZ	2.06	0.71
6:Df:145:PRO:HD2	6:Dl: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:Ei: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:Ei:780:LYS:O	7:Ei: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:CZ	8:Ez:86:LEU:HD11	2.40	0.56
8:Ez:82:TYR:O	8:Ez:86:LEU:HG	2.05	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:Dl:190:PRO:O	6:Dl: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:Dl:134:TYR:O	6:Dl:138:GLU:HG3	2.17	0.44
6:Dl:179:LEU:HB3	6:Dl:181:PHE:HE1	1.80	0.44
6:Dl:189:TRP:CE2	6:Dl: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:Ei: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:HH22	1.67	0.42
1:Am:4:ALA:H	2:An:9:ARG:NH2	2.17	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:Dl:229:ARG:C	6:Dl: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:Ei: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 (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	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 (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	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%)	7	24
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%)	7	24
1	Ci	11/11 (100%)	9 (82%)	2 (18%)	1	8
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%)	7	24
1	Dm	11/11 (100%)	10 (91%)	1 (9%)	7	24
1	Ds	11/11 (100%)	10 (91%)	1 (9%)	7	24
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%)	2	13
2	Cp	7/7 (100%)	6 (86%)	1 (14%)	2	13
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%)	10	30
3	Ai	13/13 (100%)	12 (92%)	1 (8%)	10	30
3	Ao	13/13 (100%)	12 (92%)	1 (8%)	10	30
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%)	10 30
3	Ce	13/13 (100%)	12 (92%)	1 (8%)	10 30
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%)	10 30
3	Di	13/13 (100%)	12 (92%)	1 (8%)	10 30
3	Do	13/13 (100%)	11 (85%)	2 (15%)	2 12
3	Du	13/13 (100%)	13 (100%)	0	100 100
3	Ea	13/13 (100%)	12 (92%)	1 (8%)	10 30
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%)	52 70
5	Ak	53/237 (22%)	52 (98%)	1 (2%)	52 70
5	Aq	53/237 (22%)	50 (94%)	3 (6%)	17 39

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
5	Aw	53/237 (22%)	51 (96%)	2 (4%)	28 49
5	Bc	53/237 (22%)	50 (94%)	3 (6%)	17 39
5	Bi	53/237 (22%)	52 (98%)	1 (2%)	52 70
5	Bo	53/237 (22%)	49 (92%)	4 (8%)	11 30
5	Bu	53/237 (22%)	51 (96%)	2 (4%)	28 49
5	Ca	53/237 (22%)	52 (98%)	1 (2%)	52 70
5	Cg	53/237 (22%)	49 (92%)	4 (8%)	11 30
5	Cm	53/237 (22%)	47 (89%)	6 (11%)	4 18
5	Cs	53/237 (22%)	53 (100%)	0	100 100
5	Cy	53/237 (22%)	51 (96%)	2 (4%)	28 49
5	De	53/237 (22%)	51 (96%)	2 (4%)	28 49
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%)	17 39
5	Ec	53/237 (22%)	53 (100%)	0	100 100
6	Af	137/300 (46%)	127 (93%)	10 (7%)	11 31
6	Al	137/300 (46%)	131 (96%)	6 (4%)	24 46
6	Ar	137/300 (46%)	135 (98%)	2 (2%)	60 75
6	Ax	137/300 (46%)	128 (93%)	9 (7%)	14 35
6	Bd	137/300 (46%)	132 (96%)	5 (4%)	30 51
6	Bj	137/300 (46%)	132 (96%)	5 (4%)	30 51
6	Bp	137/300 (46%)	128 (93%)	9 (7%)	14 35
6	Bv	137/300 (46%)	130 (95%)	7 (5%)	20 42
6	Cb	137/300 (46%)	128 (93%)	9 (7%)	14 35
6	Ch	137/300 (46%)	130 (95%)	7 (5%)	20 42
6	Cn	137/300 (46%)	127 (93%)	10 (7%)	11 31
6	Ct	137/300 (46%)	135 (98%)	2 (2%)	60 75
6	Cz	137/300 (46%)	130 (95%)	7 (5%)	20 42
6	Df	137/300 (46%)	128 (93%)	9 (7%)	14 35
6	Dl	137/300 (46%)	125 (91%)	12 (9%)	8 25
6	Dr	137/300 (46%)	128 (93%)	9 (7%)	14 35

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
6	Dx	137/300 (46%)	131 (96%)	6 (4%)	24 46
6	Ed	137/300 (46%)	127 (93%)	10 (7%)	11 31
7	Ee	31/765 (4%)	29 (94%)	2 (6%)	14 35
7	Ef	51/765 (7%)	48 (94%)	3 (6%)	16 38
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%)	4 17
7	Ej	50/765 (6%)	48 (96%)	2 (4%)	27 48
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%)	7 22
7	En	31/765 (4%)	29 (94%)	2 (6%)	14 35
7	Eo	31/765 (4%)	30 (97%)	1 (3%)	34 54
7	Ep	31/765 (4%)	31 (100%)	0	100 100
7	Eq	50/765 (6%)	48 (96%)	2 (4%)	27 48
7	Er	31/765 (4%)	31 (100%)	0	100 100
7	Es	50/765 (6%)	44 (88%)	6 (12%)	4 17
7	Et	44/765 (6%)	42 (96%)	2 (4%)	23 46
7	Eu	51/765 (7%)	50 (98%)	1 (2%)	50 68
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%)	17 39
7	Fk	36/765 (5%)	34 (94%)	2 (6%)	17 39
8	Ew	360/401 (90%)	350 (97%)	10 (3%)	38 58
8	Ex	360/401 (90%)	349 (97%)	11 (3%)	35 55
8	Ey	360/401 (90%)	352 (98%)	8 (2%)	47 65
8	Ez	360/401 (90%)	348 (97%)	12 (3%)	33 54
8	Fa	360/401 (90%)	353 (98%)	7 (2%)	52 70
9	Fb	715/858 (83%)	691 (97%)	24 (3%)	32 53

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
9	Fc	715/858 (83%)	682 (95%)	33 (5%)	23 45
9	Fd	715/858 (83%)	693 (97%)	22 (3%)	35 55
9	Fe	715/858 (83%)	676 (94%)	39 (6%)	18 40
9	Ff	715/858 (83%)	688 (96%)	27 (4%)	28 49
All	All	10292/34168 (30%)	9877 (96%)	415 (4%)	29 48

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

Continued on next page...

Continued from previous page...

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.

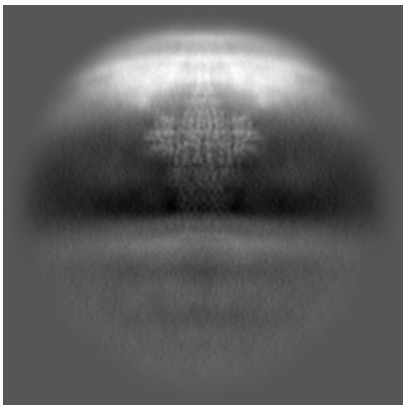
6 Map visualisation

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.

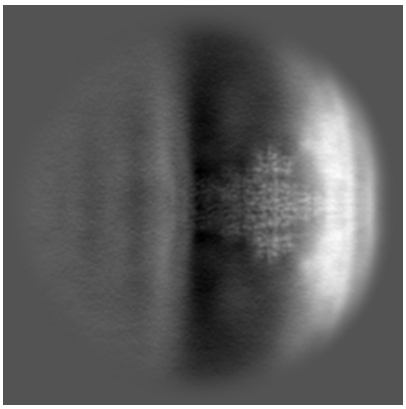
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

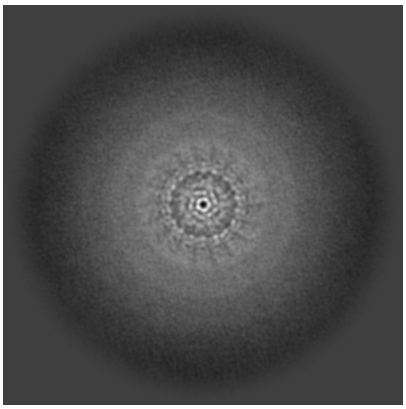
6.1.1 Primary map



X

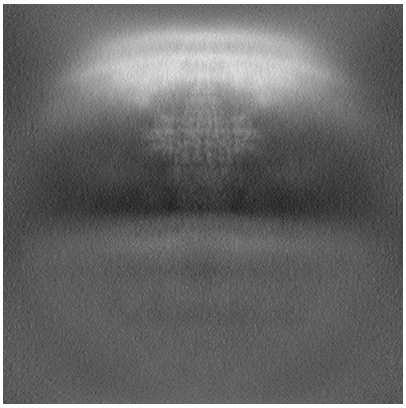


Y

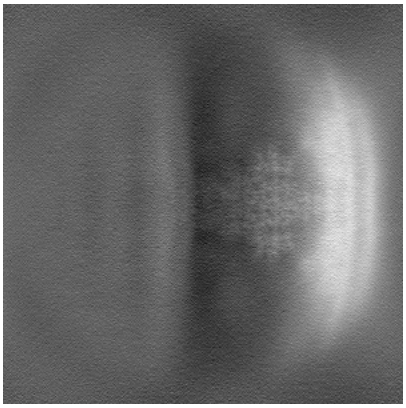


Z

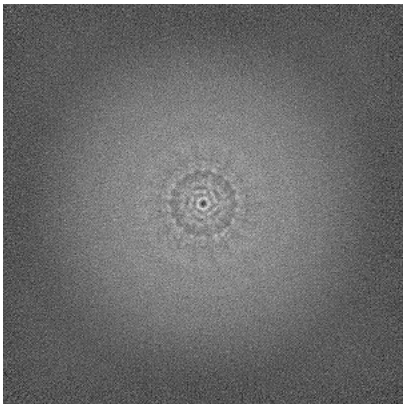
6.1.2 Raw map



X



Y

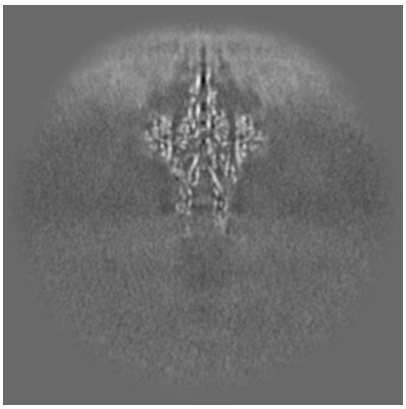


Z

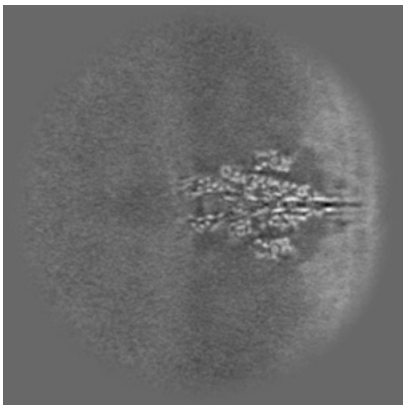
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

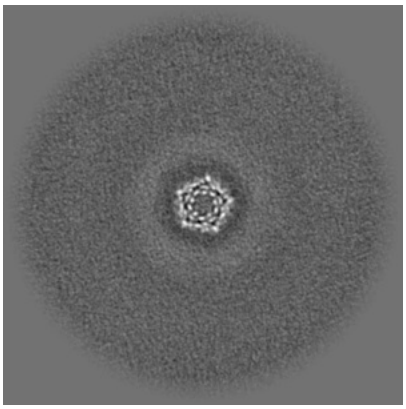
6.2.1 Primary map



X Index: 256

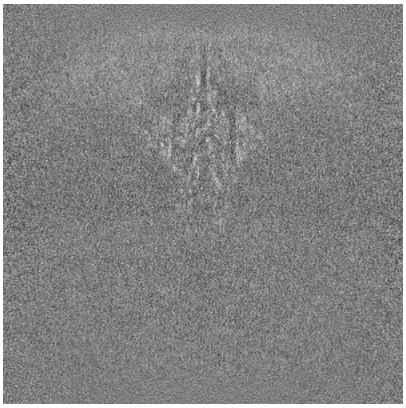


Y Index: 256

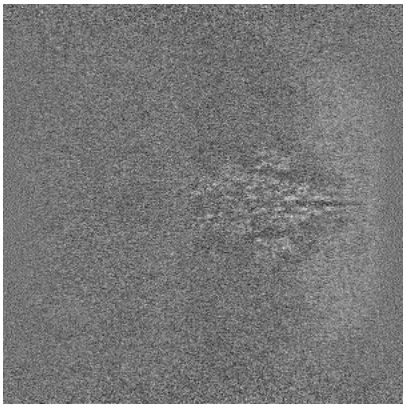


Z Index: 256

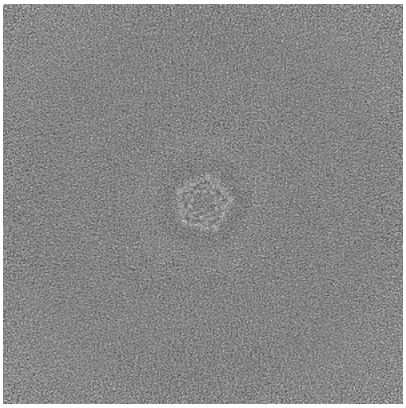
6.2.2 Raw map



X Index: 256



Y Index: 256

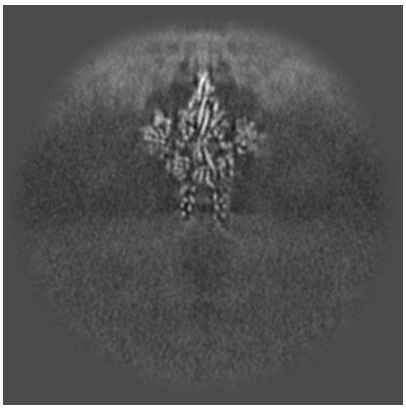


Z Index: 256

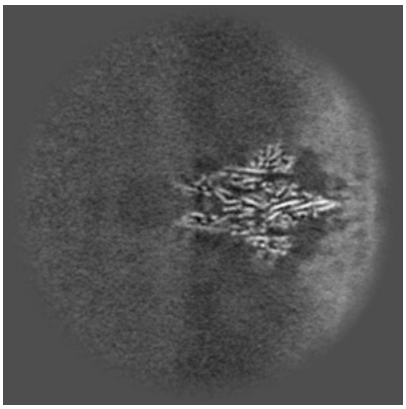
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

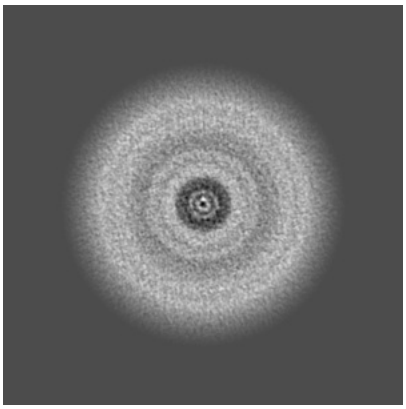
6.3.1 Primary map



X Index: 250

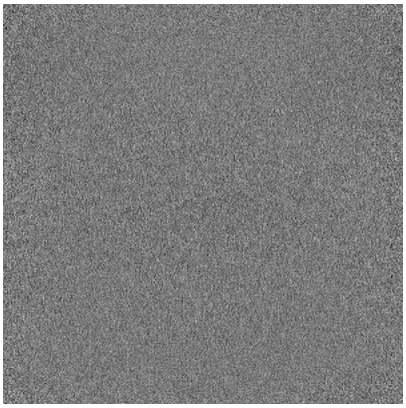


Y Index: 263

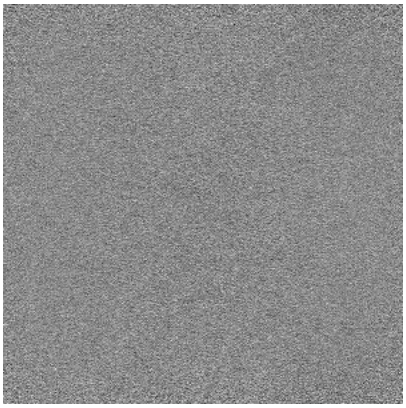


Z Index: 430

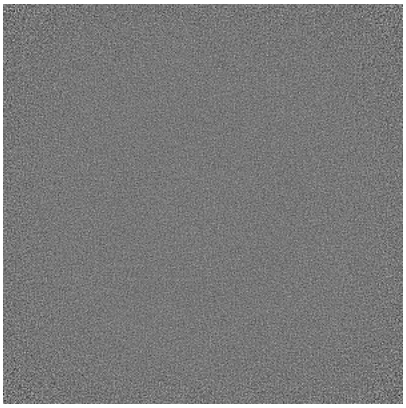
6.3.2 Raw map



X Index: 0



Y Index: 0

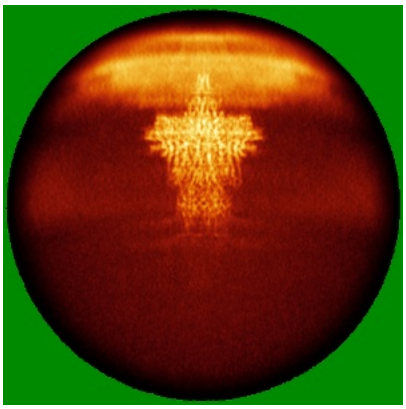


Z Index: 511

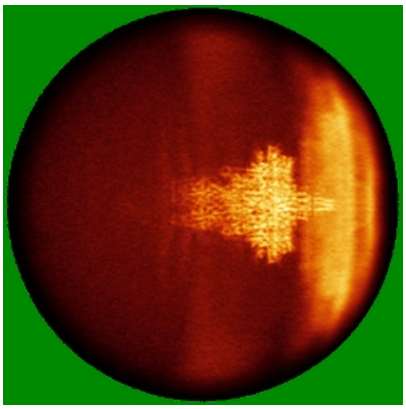
The images above show the largest variance slices of the map in three orthogonal directions.

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

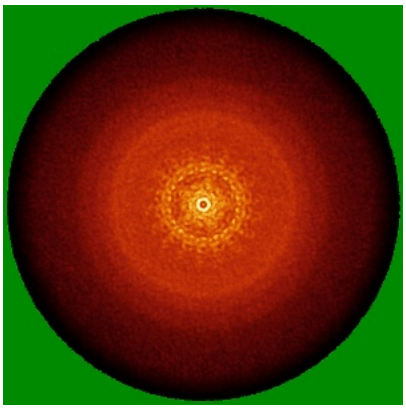
6.4.1 Primary map



X

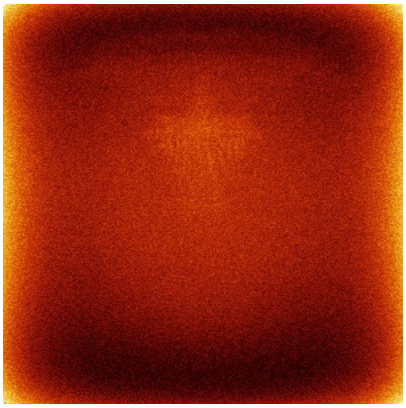


Y

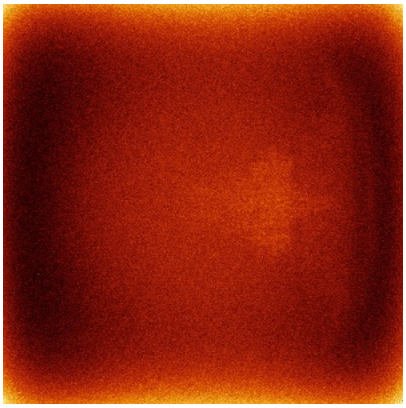


Z

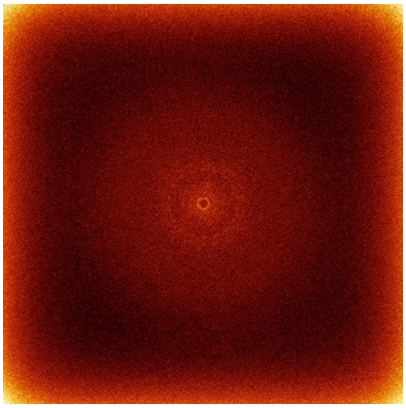
6.4.2 Raw map



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

X Y Z

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

X Y Z

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.

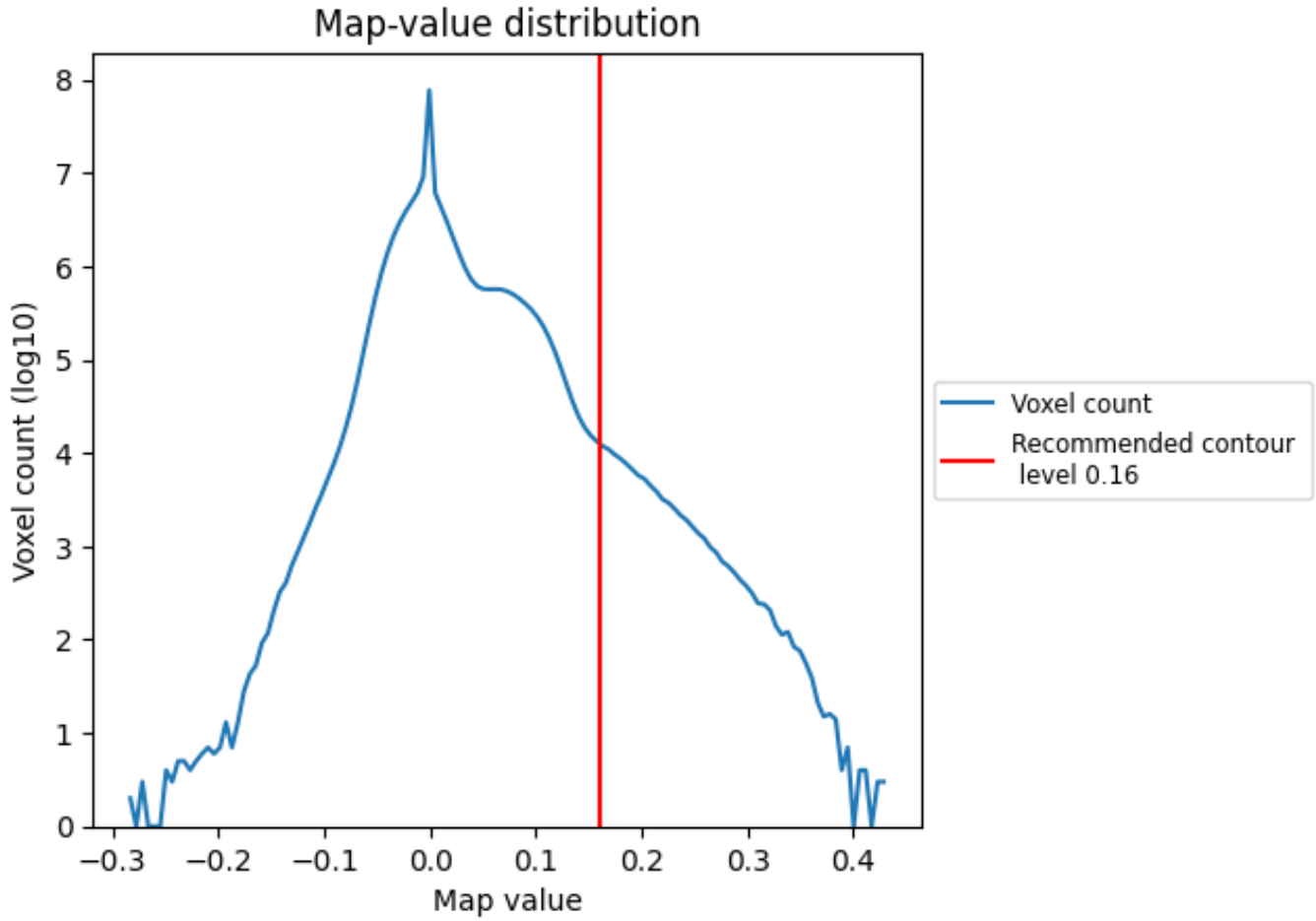
6.6 Mask visualisation (i)

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

7 Map analysis

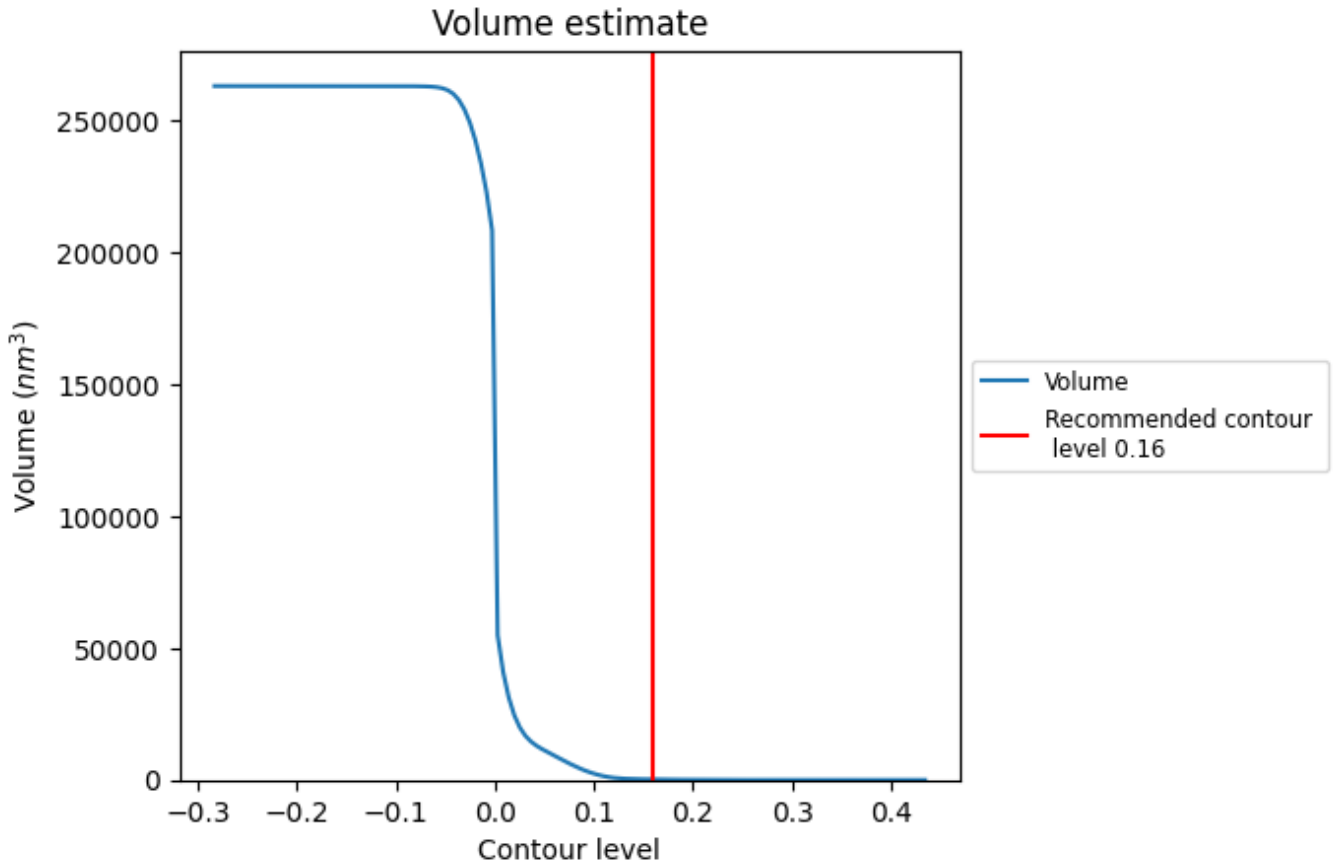
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

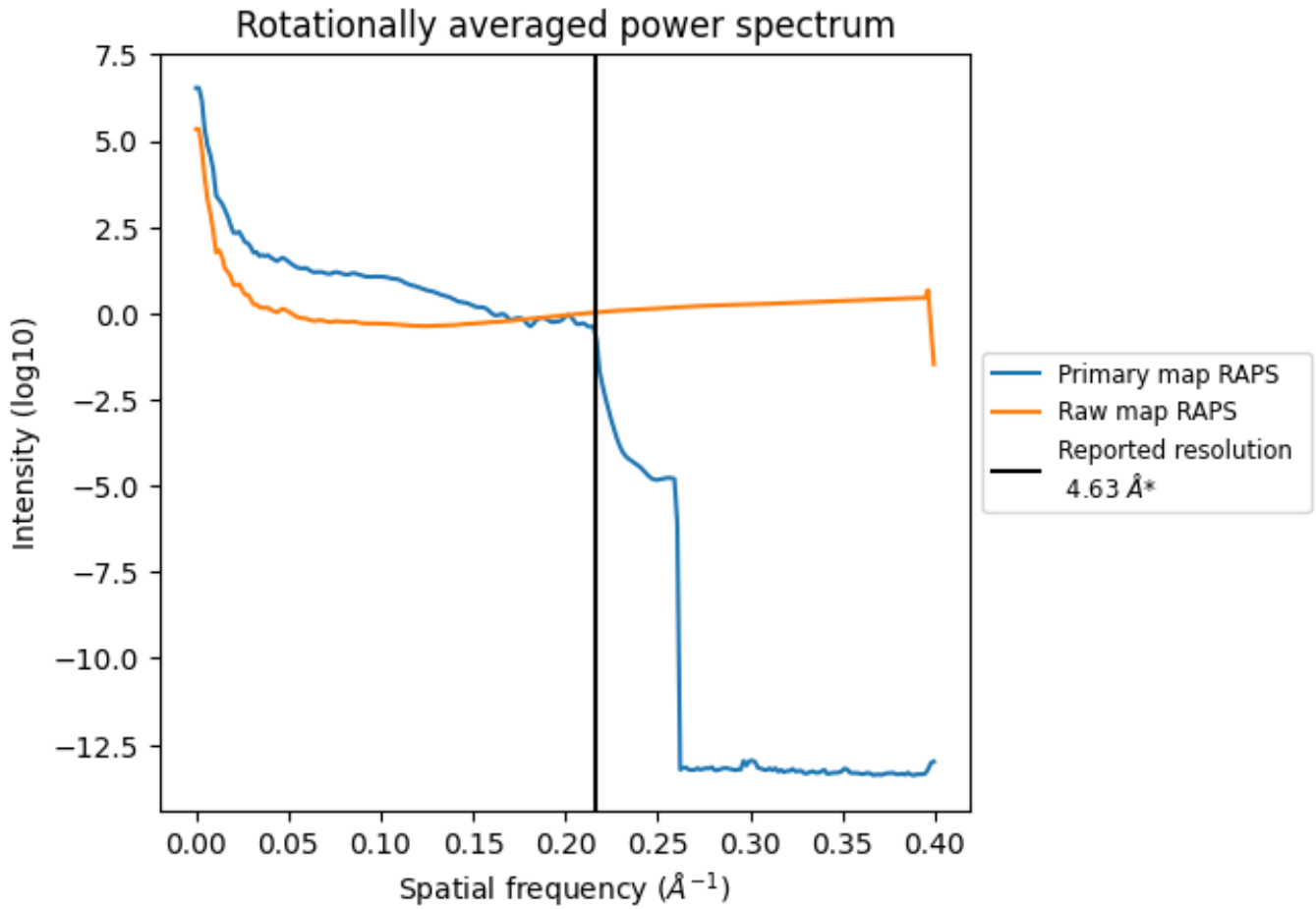
7.2 Volume estimate



The volume at the recommended contour level is 207 nm^3; 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 (i)

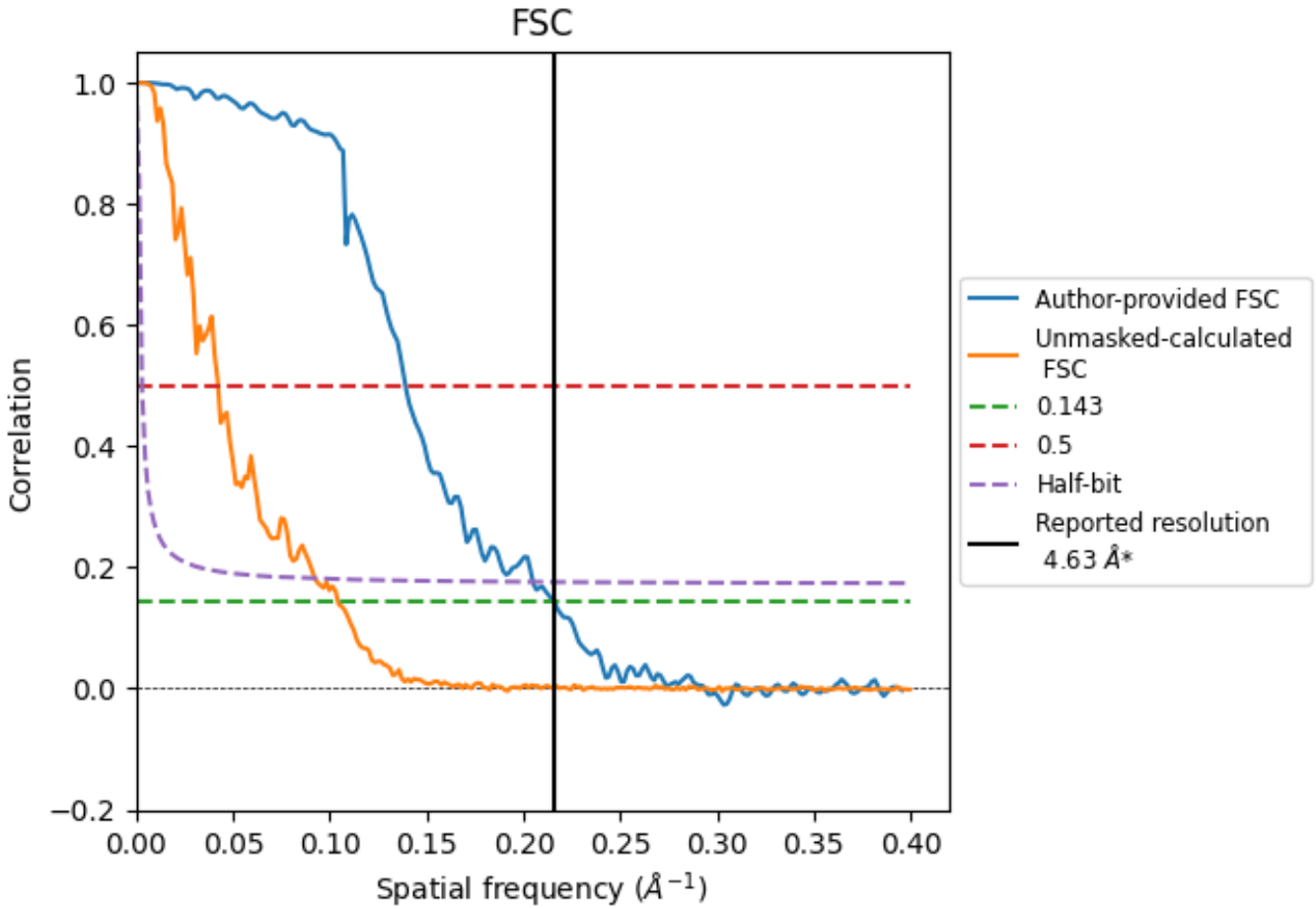


*Reported resolution corresponds to spatial frequency of 0.216 $Å^{-1}$

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.216 Å^{-1}

8.2 Resolution estimates (i)

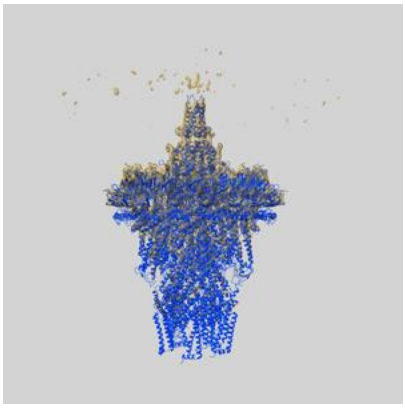
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.63	-	-
Author-provided FSC curve	4.63	7.19	4.88
Unmasked-calculated*	9.59	23.64	10.82

*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 %

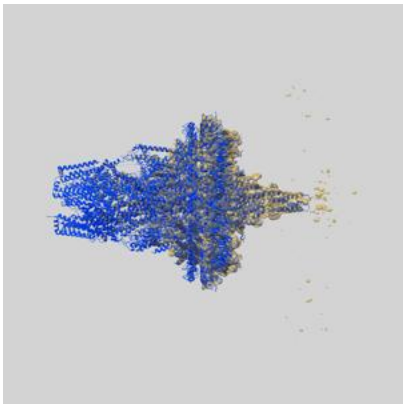
9 Map-model fit

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.

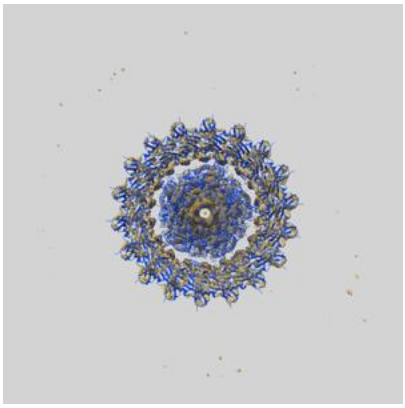
9.1 Map-model overlay



X



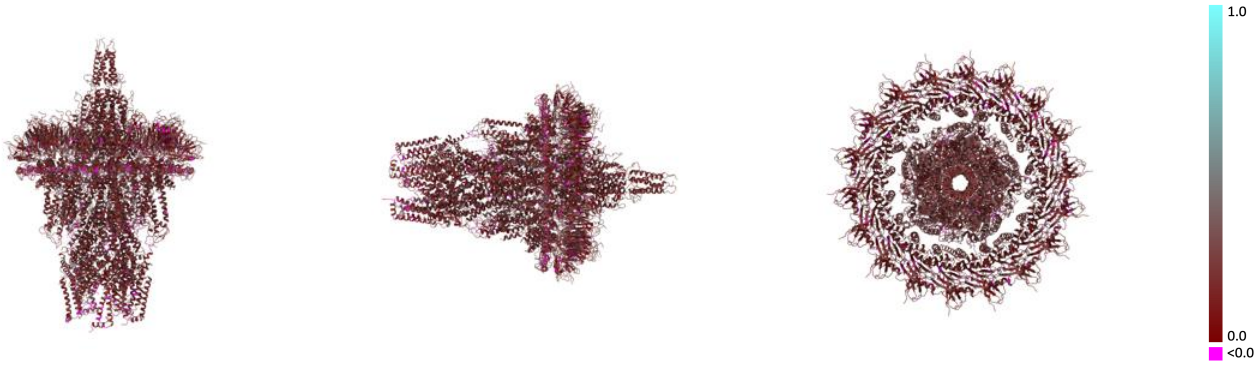
Y



Z

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.

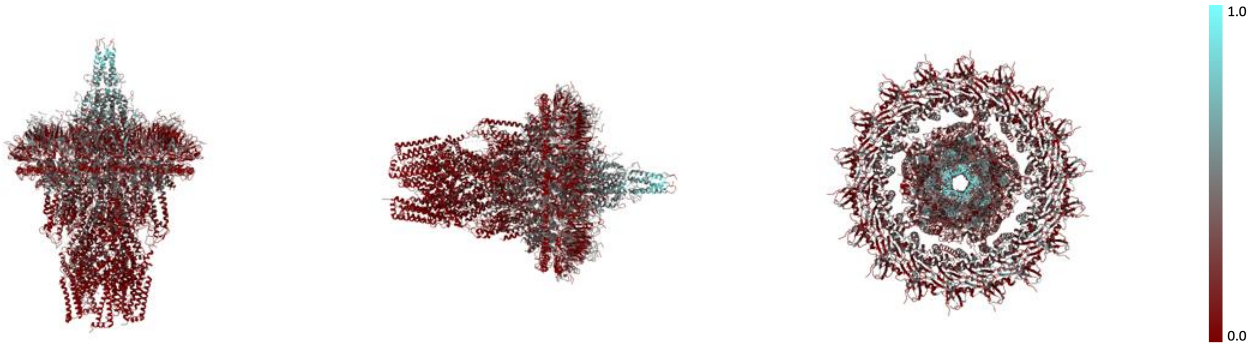
9.2 Q-score mapped to coordinate model



X Y Z

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

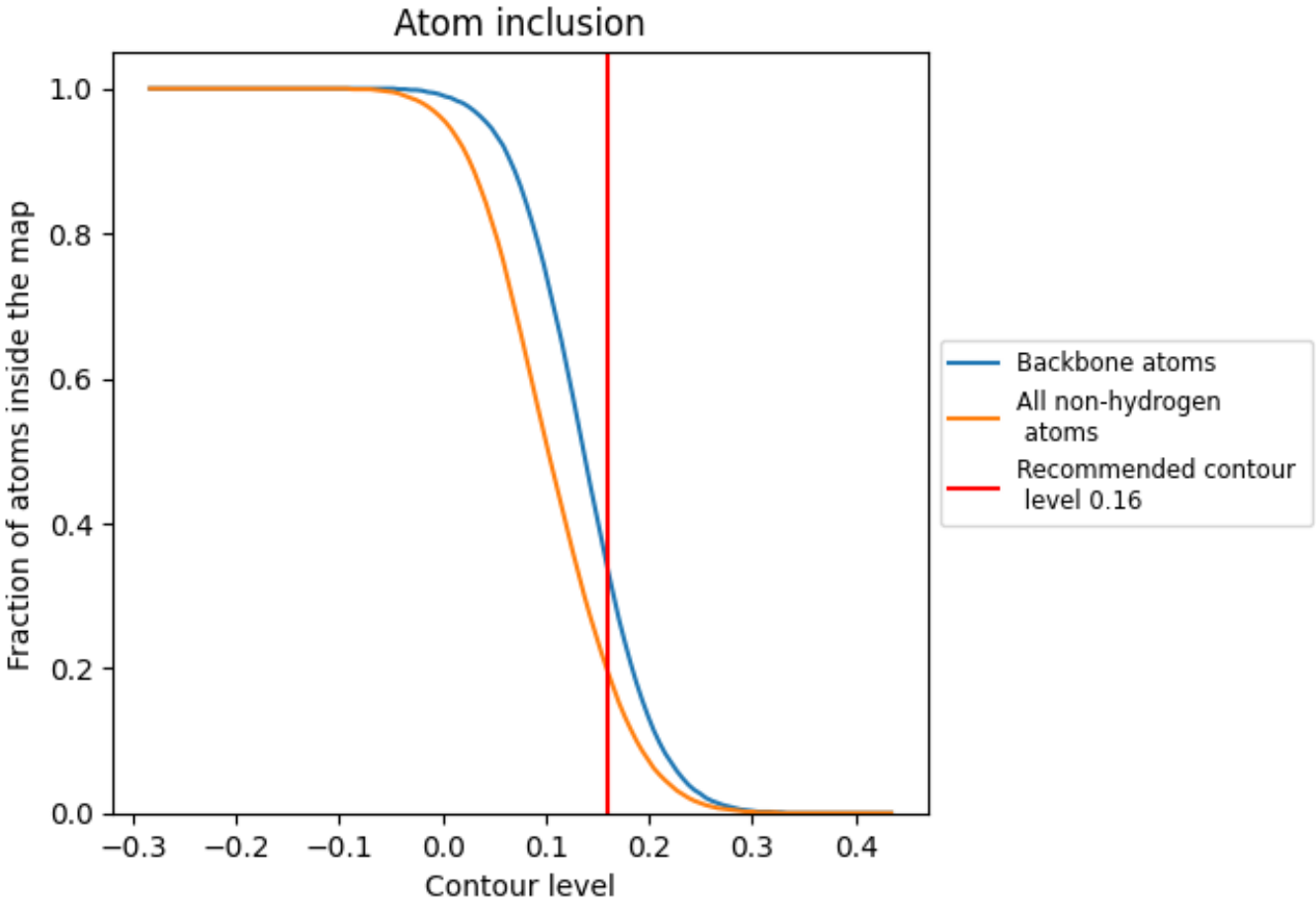
9.3 Atom inclusion mapped to coordinate model



X Y Z

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