Full wwPDB EM Validation Report

Jun 3, 2026 – 08:12 PM EDT

PDB ID	:	9YH6 / pdb_00009yh6
EMDB ID	:	EMD-72961
Title	:	Composite structure of the sheathed flagellar motor in Vibrio cholerae adopting a lower FOMC conformation
Authors	:	Guo, W.B.; Yue, J.; Liu, J.
Deposited on	:	2025-09-30
Resolution	:	3.60 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

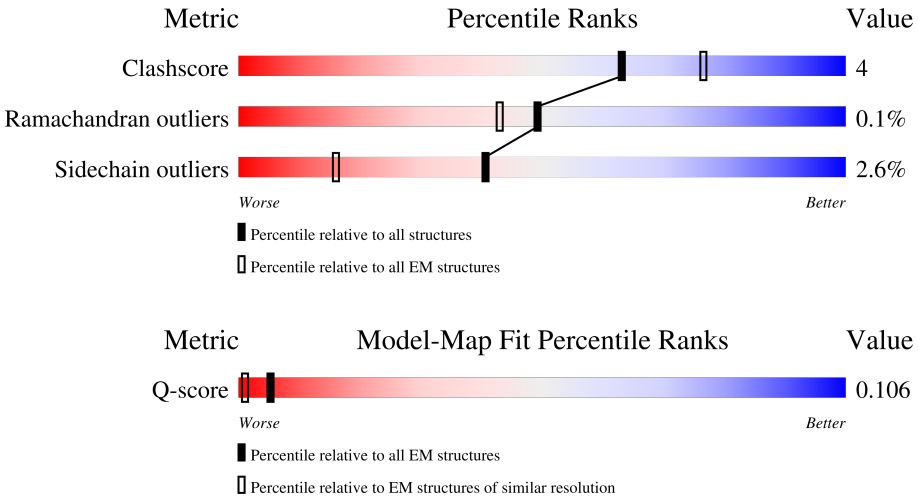
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.60 Å.

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



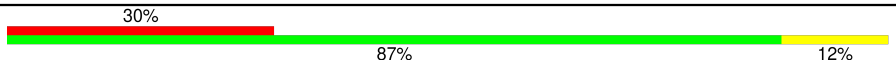
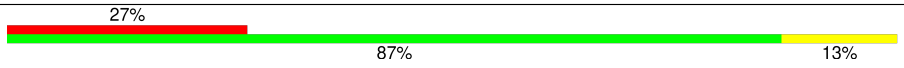
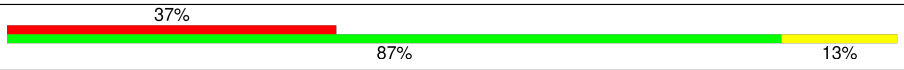
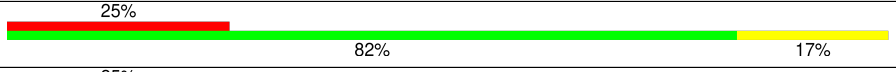
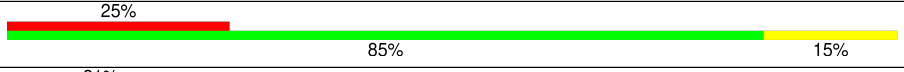
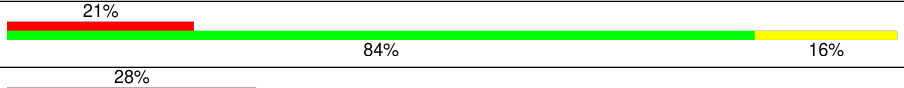
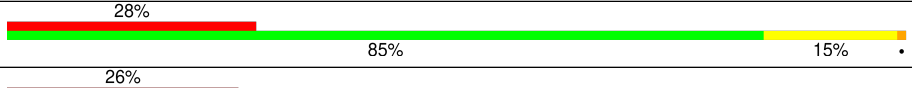
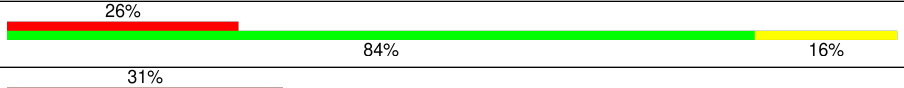
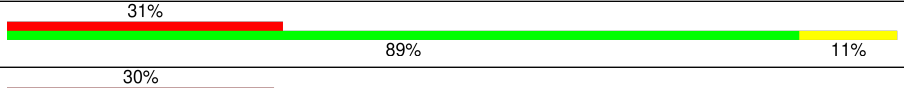
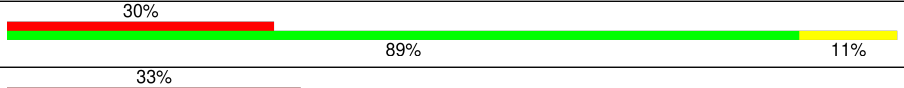
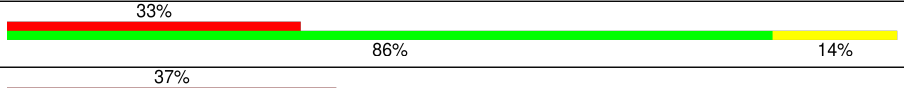
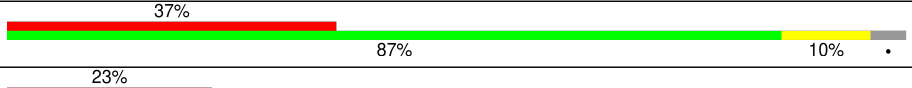
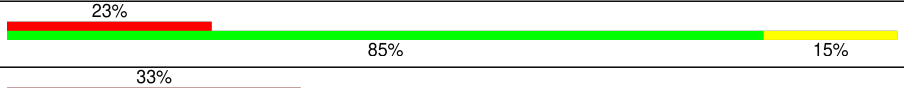
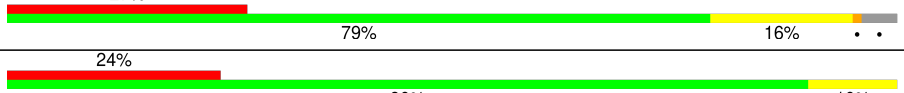
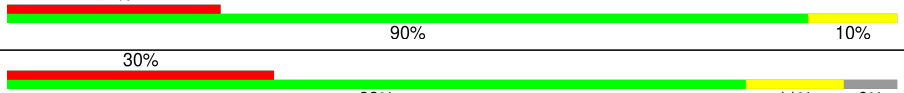
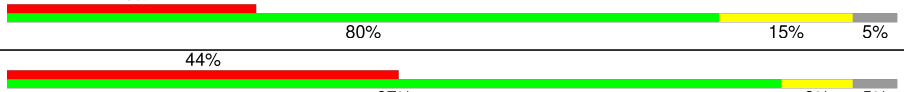
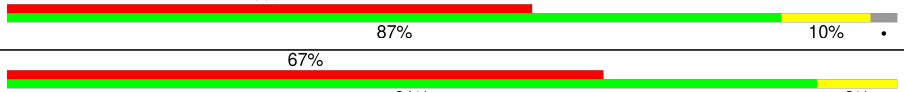
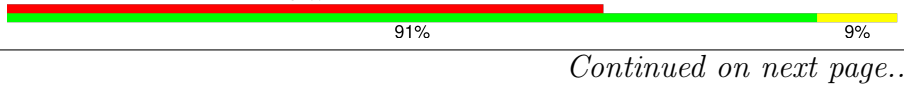
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	12797 (3.10 - 4.10)

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	262	40% 87% 13%
1	Ab	262	34% 84% 16%
1	Ac	262	30% 85% 14%
1	Ad	262	23% 83% 17%

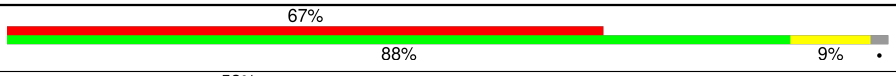
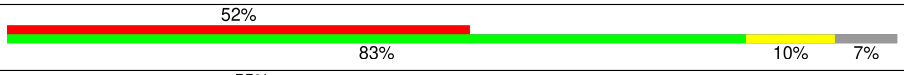
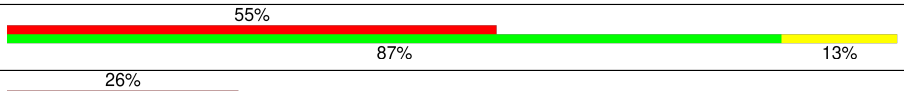
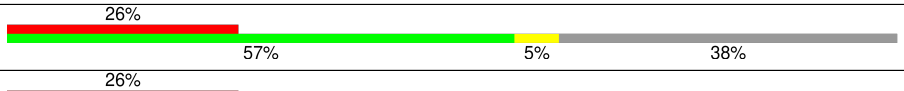
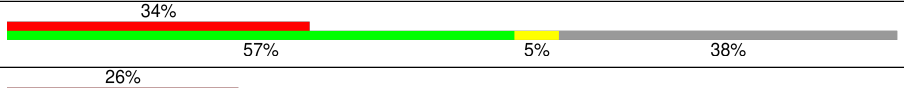
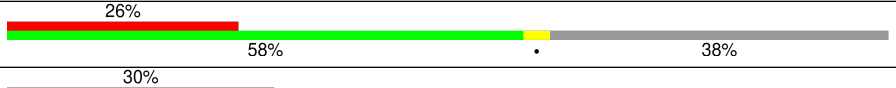
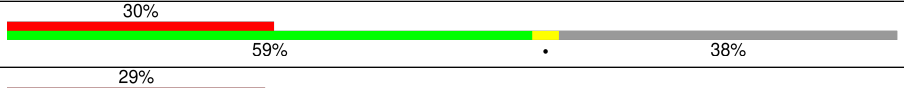
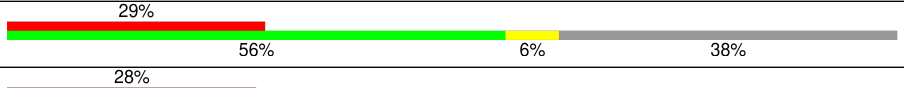
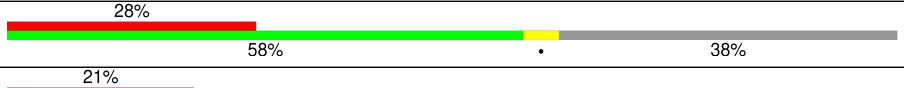
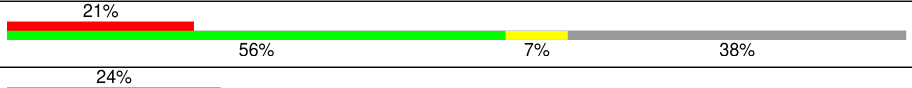
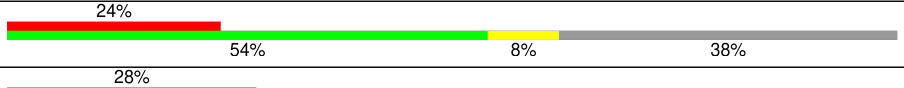
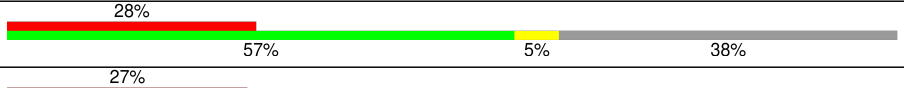
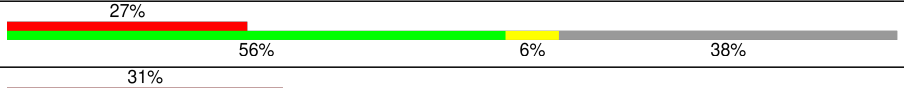
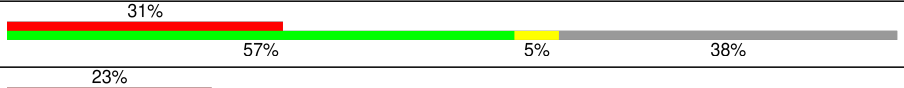
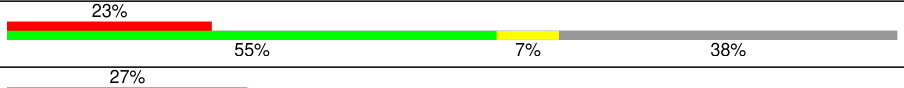
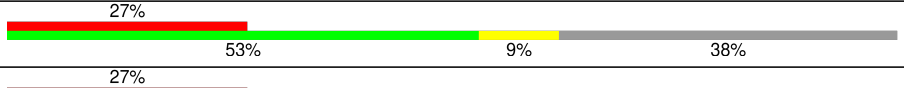
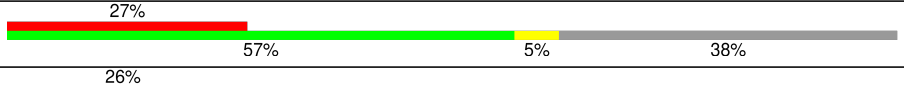
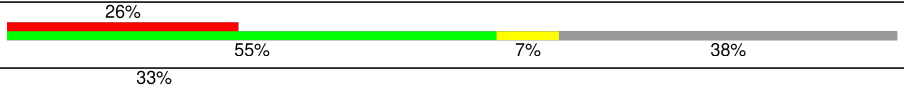
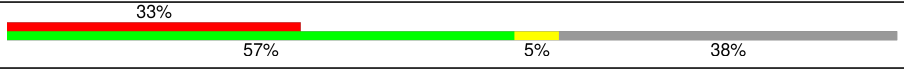
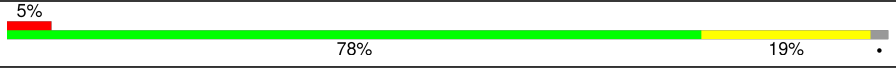
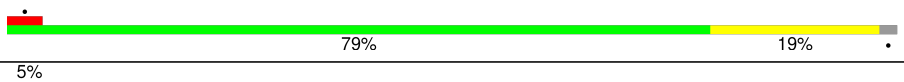
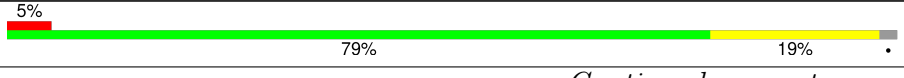
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	Ae	262	
1	Af	262	
1	Ag	262	
1	Ah	262	
1	Ai	262	
1	Aj	262	
1	Ak	262	
1	Al	262	
1	Am	262	
1	An	262	
1	Ao	262	
1	Ap	262	
1	Aq	262	
1	Ar	262	
1	As	262	
1	At	262	
1	Au	262	
1	Av	262	
1	Aw	262	
1	Ax	262	
1	Ay	262	
1	Az	262	
1	Bb	262	
2	Ba	249	
2	Bc	249	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
2	Bd	249	
2	Bv	249	
2	Bw	249	
3	Be	434	
3	Bf	434	
3	Bg	434	
3	Bh	434	
3	Bi	434	
3	Bj	434	
3	Bk	434	
3	Bl	434	
3	Bm	434	
3	Bn	434	
3	Bo	434	
3	Bp	434	
3	Bq	434	
3	Br	434	
3	Bs	434	
3	Bt	434	
3	Bu	434	
4	Bx	227	
4	By	227	
4	Bz	227	
4	Ca	227	
4	Cb	227	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	Cc	227	80% 18%
4	Cd	227	5% 80% 18%
4	Ce	227	5% 78% 19%
4	Cf	227	79% 19%
4	Cg	227	5% 80% 18%
4	Ch	227	5% 80% 18%
4	Ci	227	6% 78% 19%
4	Cj	227	6% 81% 16%
4	Ck	227	7% 80% 18%
4	Cl	227	6% 81% 17%
4	Cm	227	6% 79% 19%
4	Cn	227	6% 78% 19%
4	Co	227	5% 80% 18%
4	Cp	227	5% 79% 19%
4	Cq	227	5% 80% 18%
4	Cr	227	5% 80% 18%
4	Cs	227	80% 18%
4	Ct	227	80% 18%
4	Cu	227	77% 21%
4	Cv	227	6% 78% 20%
4	Cw	227	5% 76% 22%
5	Cx	343	77% 15% 8%
5	Cy	343	78% 15% 8%
5	Cz	343	77% 15% 8%
5	Da	343	77% 15% 8%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
5	Db	343	78% 14% 8%
5	Dc	343	77% 15% 8%
5	Dd	343	77% 15% 8%
5	De	343	76% 16% 8%
5	Df	343	77% 15% 8%
5	Dg	343	76% 16% 8%
5	Dh	343	77% 15% 8%
5	Di	343	77% 15% 8%
5	Dj	343	77% 15% 8%
5	Dk	343	77% 15% 8%
5	Dl	343	77% 15% 8%
5	Dm	343	77% 15% 8%
5	Dn	343	78% 14% 8%
5	Do	343	78% 15% 8%
5	Dp	343	76% 16% 8%
5	Dq	343	77% 15% 8%
5	Dr	343	77% 15% 8%
5	Ds	343	77% 15% 8%
5	Dt	343	78% 14% 8%
5	Du	343	78% 14% 8%
5	Dv	343	77% 15% 8%
5	Dw	343	78% 15% 8%
6	Dx	352	90% 10%
6	Dy	352	8% 91% 9%
6	Dz	352	5% 89% 11%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
6	Ea	352	5% 90% 10%
6	Eb	352	6% 89% 11%
6	Ec	352	5% 89% 11%
6	Ed	352	90% 10%
6	Ee	352	5% 88% 12%
6	Ef	352	89% 11%
6	Eg	352	90% 10%
6	Eh	352	5% 89% 11%
6	Ei	352	91% 9%
6	Ej	352	91% 9%
6	Ek	352	87% 13%
6	El	352	90% 10%
6	Em	352	88% 12%
6	En	352	92% 8%
6	Eo	352	90% 9%
6	Ep	352	88% 13%
6	Eq	352	89% 11%
6	Er	352	88% 12%
6	Es	352	91% 9%
6	Et	352	90% 10%
6	Eu	352	5% 89% 11%
6	Ev	352	86% 14%
6	Ew	352	90% 10%
7	Ex	271	7% 85% 10% 5%
7	Ey	271	6% 86% 8% 5%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
7	Ez	271	6% 86% 8% • 5%
7	Fa	271	6% 84% 11% 5%
7	Fb	271	6% 87% 7% 5%
7	Fc	271	• 85% 10% 5%
7	Fd	271	5% 86% 9% 5%
7	Fe	271	5% 85% 9% • 5%
7	Ff	271	• 86% 9% 5%
7	Fg	271	• 85% 10% • 5%
7	Fh	271	6% 86% 9% 5%
7	Fi	271	• 86% 9% 5%
7	Fj	271	5% 85% 10% 5%
7	Fk	271	7% 84% 11% 5%
7	Fl	271	• 86% 8% 5%
7	Fm	271	6% 85% 10% 5%
7	Fn	271	• 87% 8% 5%
7	Fo	271	7% 86% 9% 5%
7	Fp	271	• 87% 7% 5%
7	Fq	271	7% 85% 10% 5%
7	Fr	271	• 86% 9% 5%
7	Fs	271	8% 85% 10% 5%
7	Ft	271	7% 87% 7% • 5%
7	Fu	271	7% 86% 9% • 5%
7	Fv	271	7% 86% 8% • 5%
7	Fw	271	5% 86% 8% • 5%
8	Fx	183	23% 87% 13%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
8	Fy	183	25% 89% 10%
8	Fz	183	31% 89% 10%
8	Ga	183	28% 85% 15%
8	Gb	183	32% 86% 14%
8	Gc	183	33% 89% 11%
8	Gd	183	31% 89% 10%
8	Ge	183	32% 87% 12%
8	Gf	183	29% 87% 12%
8	Gg	183	28% 87% 13%
8	Gh	183	29% 86% 13%
8	Gi	183	25% 86% 14%
8	Gj	183	26% 85% 15%
8	Gk	183	22% 89% 11%
8	Gl	183	22% 86% 13%
8	Gm	183	22% 88% 12%
8	Gn	183	19% 86% 14%
8	Go	183	18% 88% 12%
8	Gp	183	17% 87% 13%
8	Gq	183	20% 87% 13%
8	Gr	183	19% 89% 11%
8	Gs	183	21% 87% 13%
8	Gt	183	18% 87% 12%
8	Gu	183	25% 86% 14%
8	Gv	183	20% 87% 12%
8	Gw	183	25% 87% 13%

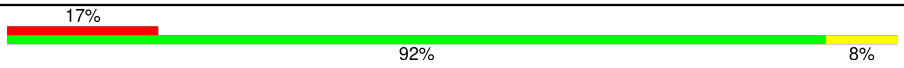
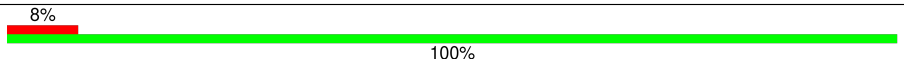
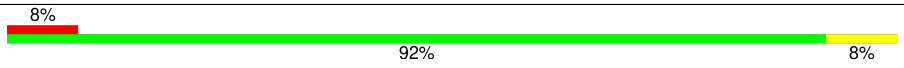
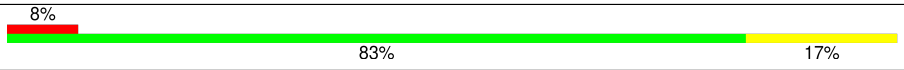
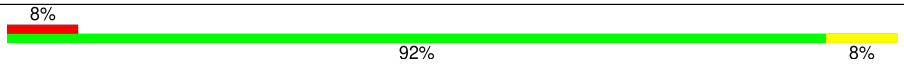
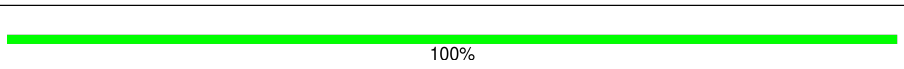
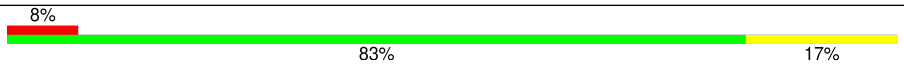
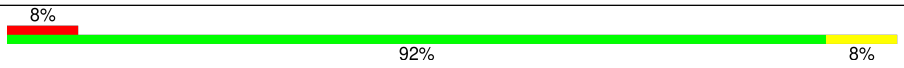
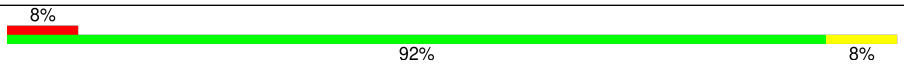
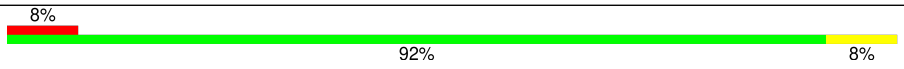
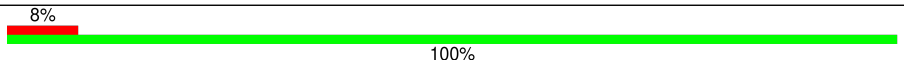
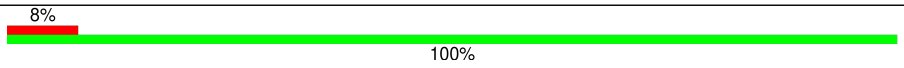
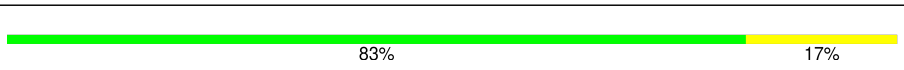
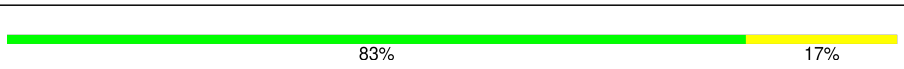
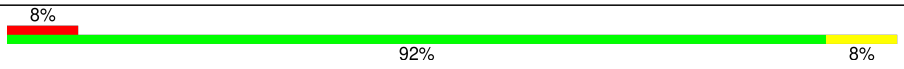
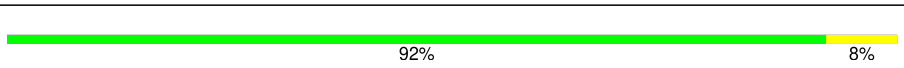
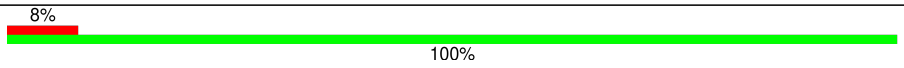
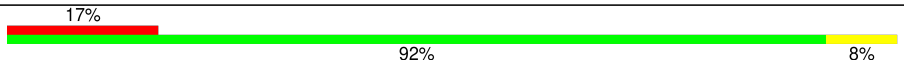
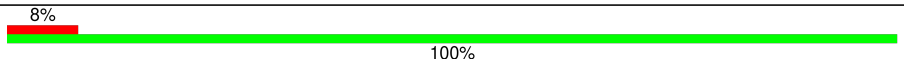
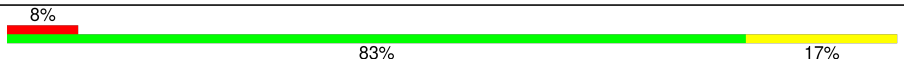
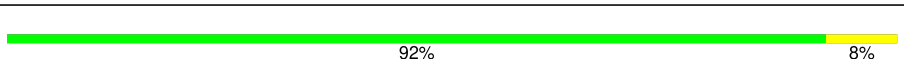
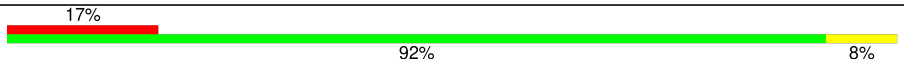
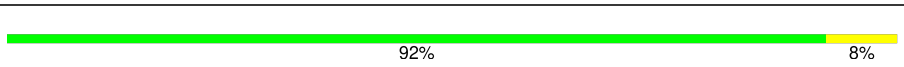
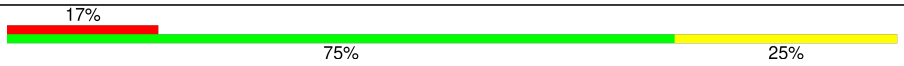
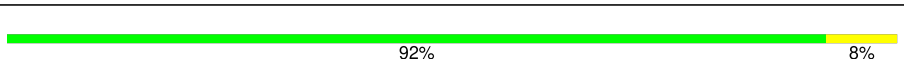
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
9	Gx	12	17% 92% 8%
9	Gy	12	17% 75% 25%
9	Gz	12	17% 100%
9	Ha	12	17% 92% 8%
9	Hb	12	17% 83% 17%
9	Hc	12	25% 83% 17%
9	Hd	12	25% 100%
9	He	12	17% 92% 8%
9	Hf	12	8% 92% 8%
9	Hg	12	25% 83% 17%
9	Hh	12	17% 92% 8%
9	Hi	12	17% 92% 8%
9	Hj	12	25% 92% 8%
9	Hk	12	17% 83% 17%
9	Hl	12	8% 92% 8%
9	Hm	12	100%
9	Hn	12	8% 92% 8%
9	Ho	12	8% 100%
9	Hp	12	17% 83% 17%
9	Hq	12	83% 17%
9	Hr	12	17% 83% 17%
9	Hs	12	92% 8%
9	Ht	12	17% 92% 8%
9	Hu	12	17% 92% 8%
9	Hv	12	8% 92% 8%

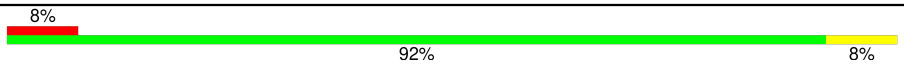
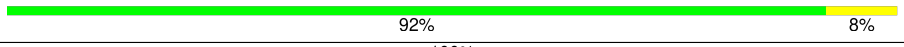
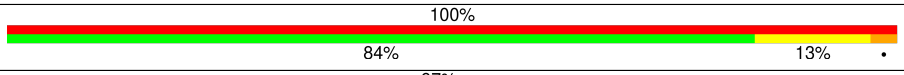
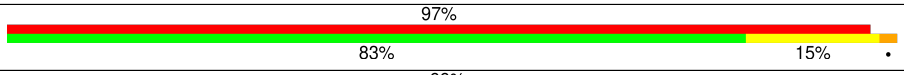
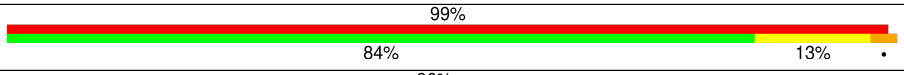
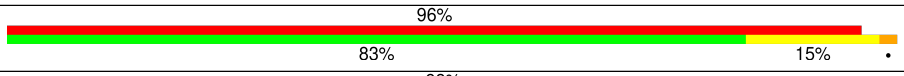
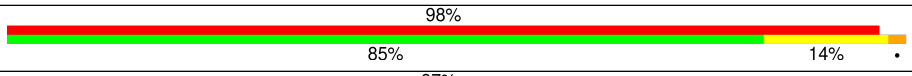
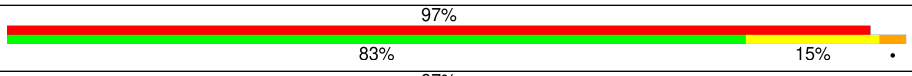
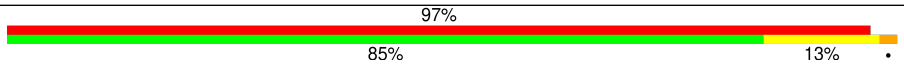
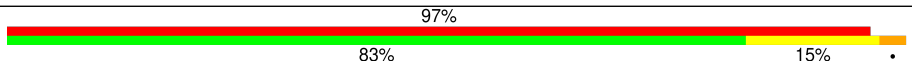
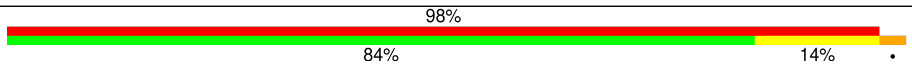
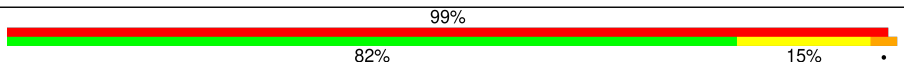
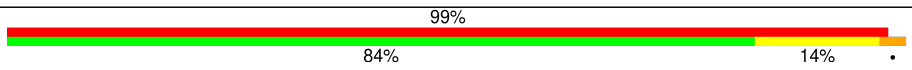
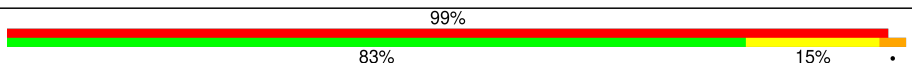
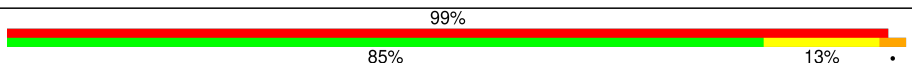
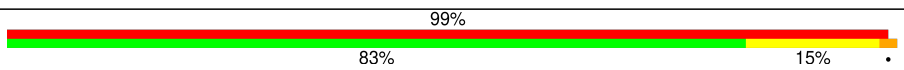
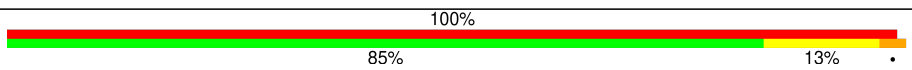
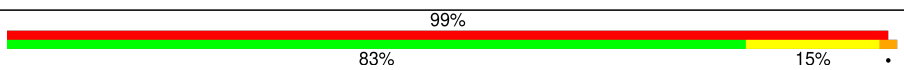
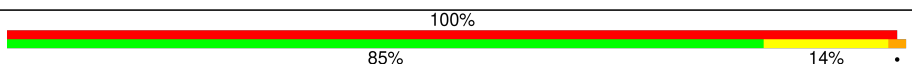
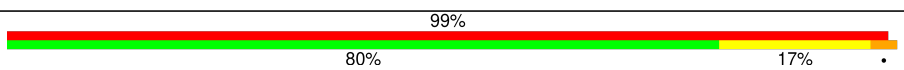
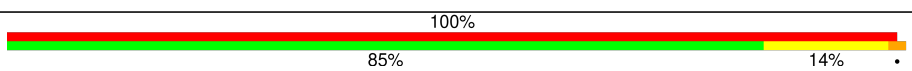
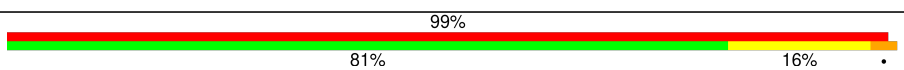
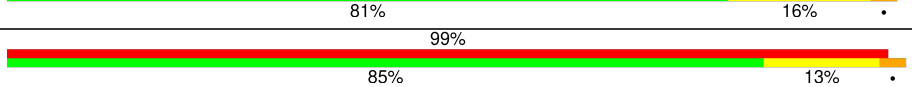
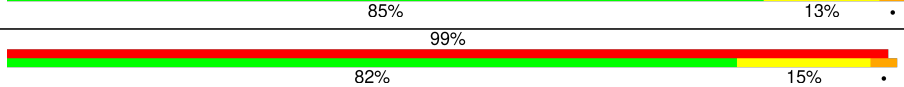
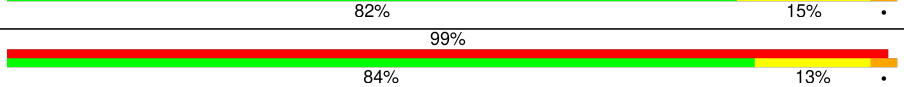
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
9	Hw	12	
9	Hx	12	
9	Hy	12	
9	Hz	12	
9	Ia	12	
9	Ib	12	
9	Ic	12	
9	Id	12	
9	Ie	12	
9	If	12	
9	Ig	12	
9	Ih	12	
9	Ii	12	
9	Ij	12	
9	Ik	12	
9	Il	12	
9	Im	12	
9	In	12	
9	Io	12	
9	Ip	12	
9	Iq	12	
9	Ir	12	
9	Is	12	
9	It	12	
9	Iu	12	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
9	Iv	12	
9	Iw	12	
10	Ix	155	
10	Iy	155	
10	Iz	155	
10	Ja	155	
10	Jb	155	
10	Jc	155	
10	Jd	155	
10	Je	155	
10	Jf	155	
10	Jg	155	
10	Jh	155	
10	Ji	155	
10	Jj	155	
10	Jk	155	
10	Jl	155	
10	Jm	155	
10	Jn	155	
10	Jo	155	
10	Jp	155	
10	Jq	155	
10	Jr	155	
10	Js	155	
10	Jt	155	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
10	Ju	155	99% 81% 17%
10	Jv	155	99% 84% 14%
10	Jw	155	98% 82% 15%
11	Jx	105	21% 81% 16%
11	Jy	105	15% 83% 14%
11	Jz	105	26% 83% 15%
11	Ka	105	19% 84% 14%
11	Kb	105	17% 83% 15%
11	Kc	105	20% 84% 14%
11	Kd	105	22% 84% 14%
11	Ke	105	24% 84% 14%
11	Kf	105	21% 86% 12%
11	Kg	105	21% 83% 14%
11	Kh	105	15% 83% 15%
11	Ki	105	16% 83% 15%
11	Kj	105	15% 82% 16%
11	Kk	105	16% 83% 15%
11	Kl	105	22% 83% 14%
11	Km	105	16% 85% 13%
11	Kn	105	18% 84% 14%
11	Ko	105	19% 84% 14%
11	Kp	105	17% 87% 10%
11	Kq	105	17% 85% 13%
11	Kr	105	17% 83% 15%
11	Ks	105	17% 82% 16%

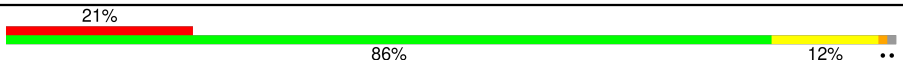
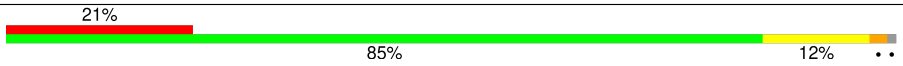
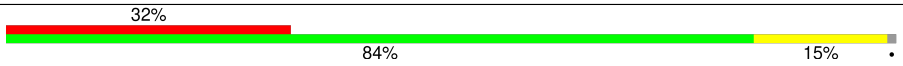
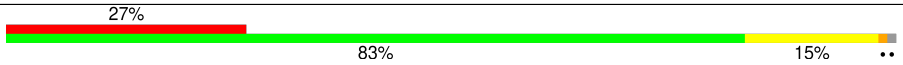
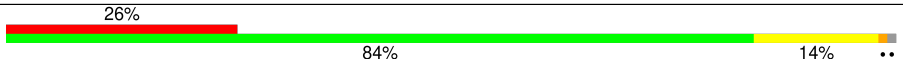
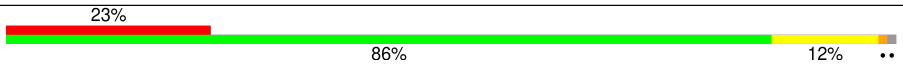
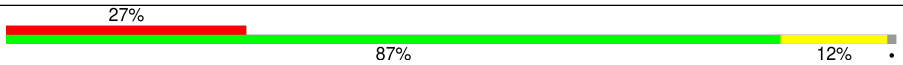
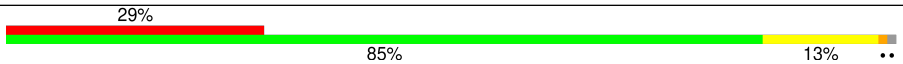
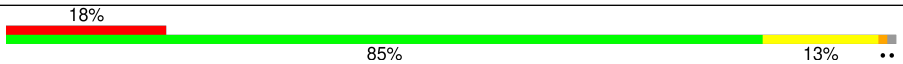
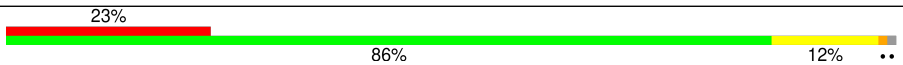
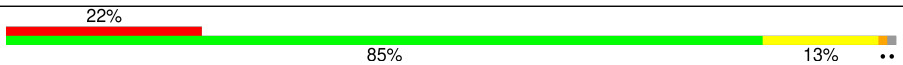
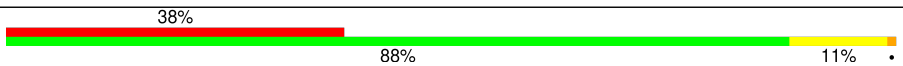
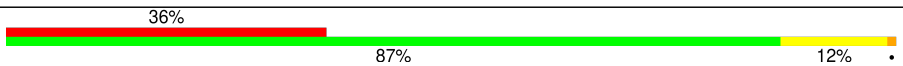
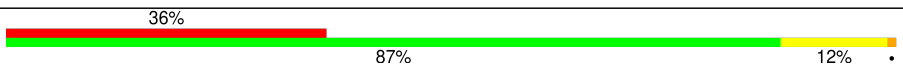
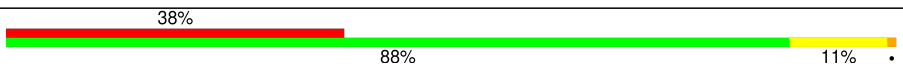
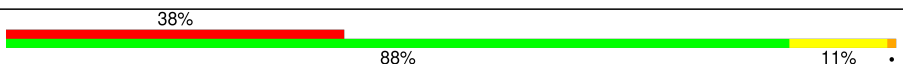
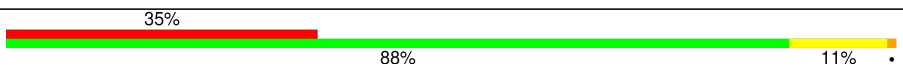
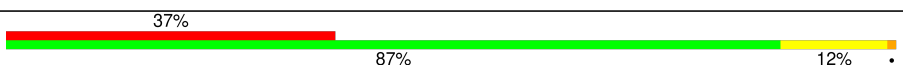
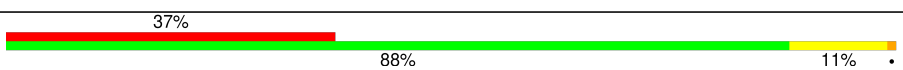
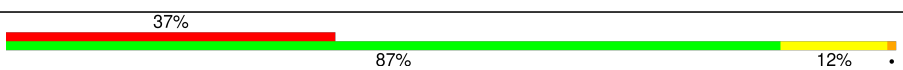
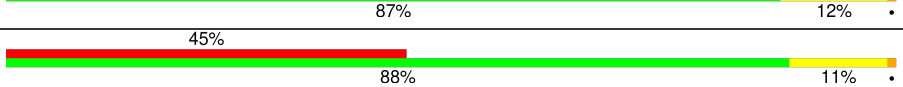
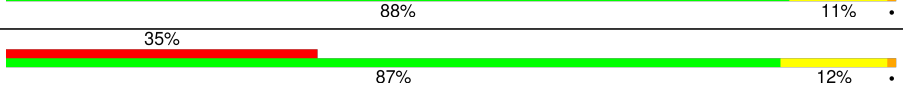
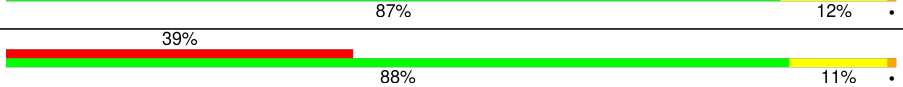
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
11	Kt	105	19% 83% 14%
11	Ku	105	18% 84% 14%
11	Kv	105	20% 85% 13%
11	Kw	105	19% 85% 13%
11	Kx	105	20% 85% 13%
11	Ky	105	19% 84% 14%
11	Kz	105	19% 84% 14%
11	La	105	22% 82% 15%
11	Lb	105	21% 83% 15%
11	Lc	105	22% 84% 14%
11	Ld	105	17% 84% 14%
11	Le	105	19% 83% 15%
11	Lf	105	23% 84% 13%
11	Lg	105	18% 85% 13%
11	Lh	105	16% 85% 13%
11	Li	105	22% 88% 10%
11	Lj	105	28% 83% 15%
11	Lk	105	15% 83% 15%
11	Ll	105	27% 83% 15%
11	Lm	105	21% 83% 15%
11	Ln	105	20% 84% 14%
11	Lo	105	20% 85% 13%
11	Lp	105	17% 86% 13%
11	Lq	105	23% 84% 13%
11	Lr	105	19% 84% 14%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
11	Ls	105	
11	Lt	105	
11	Lu	105	
11	Lv	105	
11	Lw	105	
11	Lx	105	
11	Ly	105	
11	Lz	105	
11	Ma	105	
11	Mb	105	
11	Mc	105	
12	Md	190	
12	Me	190	
12	Mf	190	
12	Mg	190	
12	Mh	190	
12	Mi	190	
12	Mj	190	
12	Mk	190	
12	Ml	190	
12	Mm	190	
12	Mn	190	
12	Mo	190	
12	Mp	190	
12	Mq	190	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
12	Mr	190	36% 88% 11%
12	Ms	190	38% 88% 11%
12	Mt	190	37% 88% 11%
12	Mu	190	38% 88% 11%
12	Mv	190	37% 88% 11%
12	Mw	190	33% 88% 11%
12	Mx	190	43% 88% 11%
12	My	190	39% 88% 11%
12	Mz	190	39% 87% 12%
12	Na	190	35% 88% 11%
12	Nb	190	41% 87% 12%
12	Nc	190	38% 88% 11%
12	Nd	190	34% 88% 11%
12	Ne	190	34% 88% 11%
12	Nf	190	40% 88% 11%
12	Ng	190	34% 88% 12%
12	Nh	190	41% 87% 12%
12	Ni	190	37% 87% 12%
12	Nj	190	38% 88% 11%
12	Nk	190	37% 88% 11%
12	Nl	190	34% 88% 11%
12	Nm	190	38% 88% 11%
12	Nn	190	36% 88% 11%
12	No	190	34% 87% 12%
12	Np	190	35% 88% 11%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
12	Nq	190	36% 87% 12%
12	Nr	190	35% 88% 11%
12	Ns	190	37% 88% 11%
12	Nt	190	38% 88% 11%
12	Nu	190	36% 88% 11%
12	Nv	190	38% 88% 12%
12	Nw	190	39% 88% 11%
12	Nx	190	38% 87% 12%
12	Ny	190	33% 88% 11%
12	Nz	190	41% 87% 12%
12	Oa	190	41% 88% 11%
12	Ob	190	38% 88% 11%
12	Oc	190	37% 88% 11%
12	Od	190	39% 88% 11%
12	Oe	190	39% 88% 11%
12	Of	190	35% 88% 11%
12	Og	190	42% 88% 11%
12	Oh	190	36% 87% 12%
12	Oi	190	41% 88% 11%
13	Oj	144	95% 85% 15%
13	Ok	144	96% 87% 12%
13	Ol	144	97% 86% 14%
13	Om	144	94% 90% 10%
13	On	144	97% 85% 15%
13	Oo	144	96% 85% 15%

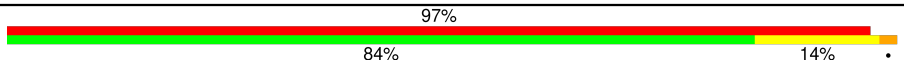
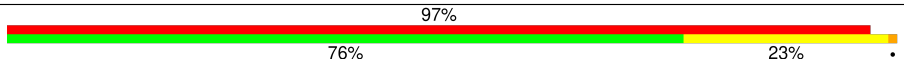
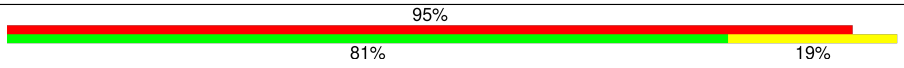
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
13	Op	144	97% 88% 12%
13	Oq	144	97% 80% 19%
13	Or	144	98% 82% 18%
13	Os	144	97% 80% 19%
13	Ot	144	99% 78% 20%
13	Ou	144	98% 87% 12%
13	Ov	144	98% 91% 8%
13	Ow	144	96% 88% 12%
13	Ox	144	97% 88% 12%
13	Oy	144	93% 87% 12%
13	Oz	144	95% 77% 21%
13	Pa	144	99% 81% 19%
13	Pb	144	99% 84% 15%
13	Pc	144	99% 83% 16%
13	Pd	144	96% 88% 12%
13	Pe	144	98% 82% 18%
13	Pf	144	98% 81% 17%
13	Pg	144	97% 79% 20%
13	Ph	144	93% 81% 19%
13	Pi	144	94% 86% 13%
13	Pj	144	95% 81% 19%
13	Pk	144	95% 81% 17%
13	Pl	144	97% 88% 12%
13	Pm	144	95% 89% 11%
13	Pn	144	95% 83% 16%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
13	Po	144	
13	Pp	144	
13	Pq	144	

2 Entry composition (i)

There are 13 unique types of molecules in this entry. The entry contains 574924 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 Flagellar basal-body rod protein FlgG.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	Aa	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Ab	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Ac	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Ad	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Ae	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Af	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Ag	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Ah	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Ai	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Aj	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Ak	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Al	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Am	262	Total 1966	C 1215	N 339	O 403	S 9	0	0
1	An	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Ao	262	Total 1969	C 1217	N 339	O 403	S 10	0	0
1	Ap	252	Total 1893	C 1173	N 323	O 387	S 10	0	0
1	Aq	262	Total 1969	C 1217	N 339	O 403	S 10	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	Ar	247	Total	C	N	O	S	0	0
			1863	1156	317	380	10		
1	As	262	Total	C	N	O	S	0	0
			1969	1217	339	403	10		
1	At	251	Total	C	N	O	S	0	0
			1889	1171	322	386	10		
1	Au	262	Total	C	N	O	S	0	0
			1969	1217	339	403	10		
1	Av	247	Total	C	N	O	S	0	0
			1859	1154	316	379	10		
1	Aw	262	Total	C	N	O	S	0	0
			1969	1217	339	403	10		
1	Ax	249	Total	C	N	O	S	0	0
			1876	1163	320	383	10		
1	Ay	248	Total	C	N	O	S	0	0
			1864	1158	316	380	10		
1	Az	249	Total	C	N	O	S	0	0
			1873	1161	319	383	10		
1	Bb	253	Total	C	N	O	S	0	0
			1900	1178	324	388	10		

- Molecule 2 is a protein called Flagellar basal-body rod protein FlgF.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Ba	241	Total	C	N	O	S	0	0
			1811	1112	327	361	11		
2	Bc	249	Total	C	N	O	S	0	0
			1870	1149	336	373	12		
2	Bd	244	Total	C	N	O	S	0	0
			1833	1125	331	365	12		
2	Bv	232	Total	C	N	O	S	0	0
			1737	1066	312	347	12		
2	Bw	249	Total	C	N	O	S	0	0
			1868	1147	336	373	12		

- Molecule 3 is a protein called Flagellar hook protein FlgE.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Be	268	Total	C	N	O	S	0	0
			2045	1273	354	414	4		
3	Bf	268	Total	C	N	O	S	0	0
			2045	1273	354	414	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Bg	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bh	268	Total	C	N	O	S	0	0
			2045	1273	354	414	4		
3	Bi	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bj	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bk	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bl	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bm	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bn	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bo	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bp	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bq	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Br	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bs	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bt	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		
3	Bu	270	Total	C	N	O	S	0	0
			2065	1285	359	417	4		

- Molecule 4 is a protein called Flagellar L-ring protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	Bx	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	By	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Bz	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Ca	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
4	Cb	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cc	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cd	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Ce	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cf	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cg	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Ch	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Ci	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cj	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Ck	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cl	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cm	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cn	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Co	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cp	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cq	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cr	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cs	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Ct	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cu	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		
4	Cv	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
4	Cw	223	Total	C	N	O	S	0	0
			1674	1027	290	353	4		

- Molecule 5 is a protein called Flagellar P-ring protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	Cx	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Cy	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Cz	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Da	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Db	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dc	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dd	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	De	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Df	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dg	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dh	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Di	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dj	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dk	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dl	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dm	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dn	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Do	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
5	Dp	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dq	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dr	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Ds	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dt	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Du	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dv	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		
5	Dw	316	Total	C	N	O	S	0	0
			2314	1457	404	446	7		

- Molecule 6 is a protein called Flagellar protein FlgT.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	Dx	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Dy	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Dz	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Ea	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Eb	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Ec	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Ed	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Ee	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Ef	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Eg	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Eh	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
6	Ei	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Ej	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Ek	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	El	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Em	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	En	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Eo	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Ep	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Eq	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Er	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Es	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Et	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Eu	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Ev	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		
6	Ew	352	Total	C	N	O	S	0	0
			2770	1741	477	535	17		

- Molecule 7 is a protein called Sodium-type flagellar protein MotY.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	Ex	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Ey	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		
7	Ez	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Fa	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
7	Fb	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Fc	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		
7	Fd	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Fe	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		
7	Ff	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Fg	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		
7	Fh	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Fi	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		
7	Fj	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Fk	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		
7	Fl	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Fm	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		
7	Fn	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Fo	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		
7	Fp	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Fq	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		
7	Fr	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Fs	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		
7	Ft	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		
7	Fu	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		
7	Fv	257	Total	C	N	O	S	0	0
			2085	1312	362	404	7		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
7	Fw	258	Total	C	N	O	S	0	0
			2080	1310	358	405	7		

- Molecule 8 is a protein called Sodium-type flagellar protein MotX.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	Fx	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Fy	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		
8	Fz	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Ga	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		
8	Gb	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Gc	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		
8	Gd	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Ge	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		
8	Gf	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Gg	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		
8	Gh	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Gi	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		
8	Gj	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Gk	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		
8	Gl	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Gm	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		
8	Gn	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Go	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
8	Gp	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Gq	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		
8	Gr	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Gs	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		
8	Gt	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Gu	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		
8	Gv	183	Total	C	N	O	S	0	0
			1466	926	259	275	6		
8	Gw	183	Total	C	N	O	S	0	0
			1494	943	268	277	6		

- Molecule 9 is a protein called FlgP.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Gx	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Gy	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Gz	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ha	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hb	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hc	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hd	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	He	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hf	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hg	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hh	12	Total	C	N	O	S	0	0
			105	66	19	19	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Hi	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hj	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hk	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hl	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hm	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hn	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ho	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hp	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hq	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hr	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hs	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ht	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hu	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hv	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hw	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hx	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hy	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Hz	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ia	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ib	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ic	12	Total	C	N	O	S	0	0
			105	66	19	19	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Id	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ie	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	If	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ig	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ih	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ii	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ij	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ik	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Il	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Im	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	In	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Io	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ip	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Iq	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Ir	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Is	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	It	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Iu	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Iv	12	Total	C	N	O	S	0	0
			105	66	19	19	1		
9	Iw	12	Total	C	N	O	S	0	0
			105	66	19	19	1		

- Molecule 10 is a protein called Chemotaxis protein PomB.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	Ix	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Iy	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Iz	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Ja	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jb	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jc	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jd	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Je	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jf	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jg	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jh	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Ji	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jj	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jk	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jl	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jm	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jn	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jo	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jp	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jq	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jr	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Js	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
10	Jt	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Ju	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jv	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		
10	Jw	155	Total	C	N	O	S	0	0
			1231	758	229	241	3		

- Molecule 11 is a protein called Lipoprotein.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	Jx	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Jy	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Jz	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ka	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kb	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kc	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kd	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ke	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kf	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kg	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kh	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ki	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kj	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kk	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kl	104	Total	C	N	O	S	0	0
			828	506	155	163	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
11	Km	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kn	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ko	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kp	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kq	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kr	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ks	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kt	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ku	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kv	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kw	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kx	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ky	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Kz	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	La	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lb	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lc	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ld	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Le	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lf	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lg	104	Total	C	N	O	S	0	0
			828	506	155	163	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
11	Lh	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Li	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lj	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lk	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ll	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lm	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ln	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lo	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lp	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lq	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lr	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ls	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lt	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lu	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lv	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lw	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lx	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ly	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Lz	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Ma	104	Total	C	N	O	S	0	0
			828	506	155	163	4		
11	Mb	104	Total	C	N	O	S	0	0
			828	506	155	163	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
11	Mc	104	Total	C	N	O	S	0	0
			828	506	155	163	4		

- Molecule 12 is a protein called FlgO domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	Md	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Me	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mf	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mg	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mh	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mi	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mj	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mk	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Ml	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mm	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mn	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mo	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mp	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mq	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mr	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Ms	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mt	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mu	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
12	Mv	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mw	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mx	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	My	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Mz	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Na	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nb	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nc	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nd	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Ne	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nf	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Ng	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nh	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Ni	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nj	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nk	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nl	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nm	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nn	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	No	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Np	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
12	Nq	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nr	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Ns	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nt	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nu	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nv	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nw	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nx	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Ny	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Nz	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Oa	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Ob	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Oc	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Od	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Oe	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Of	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Og	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Oh	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		
12	Oi	190	Total	C	N	O	S	0	0
			1482	928	260	287	7		

- Molecule 13 is a protein called FliF.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	Oj	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Ok	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Ol	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Om	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	On	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Oo	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Op	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Oq	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Or	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Os	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Ot	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Ou	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Ov	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Ow	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Ox	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Oy	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Oz	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pa	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pb	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pc	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pd	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pe	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
13	Pf	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pg	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Ph	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pi	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pj	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pk	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pl	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pm	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pn	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Po	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pp	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		
13	Pq	144	Total	C	N	O	S	0	0
			1134	702	201	230	1		

3 Residue-property plots (i)

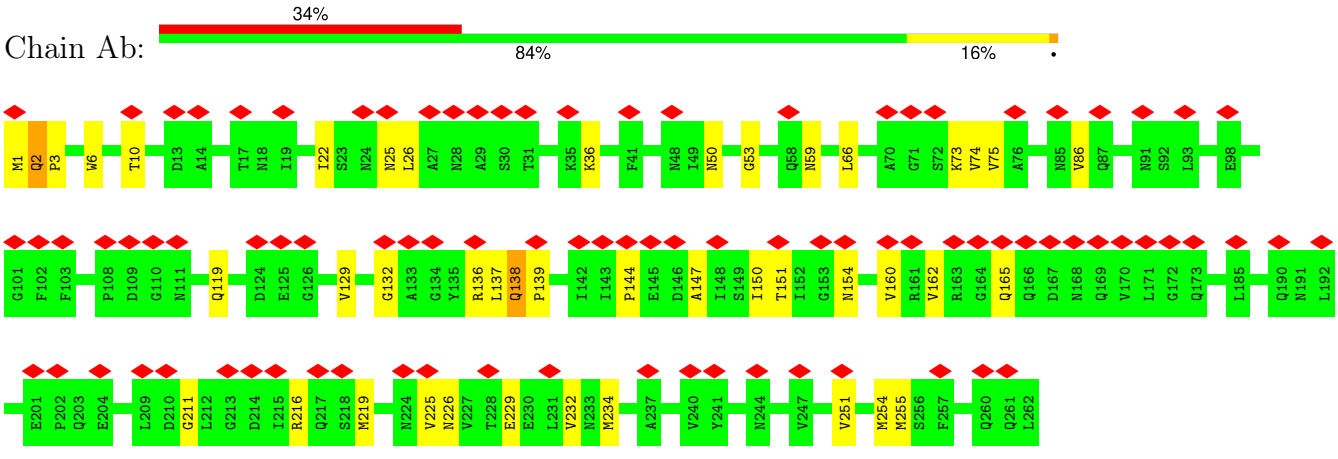
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Flagellar basal-body rod protein FlgG

Chain Aa:

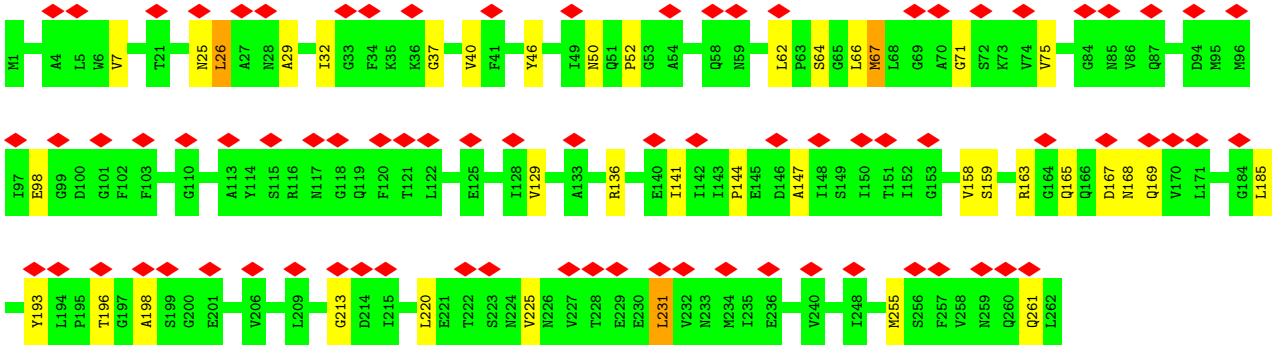
• Molecule 1: Flagellar basal-body rod protein FlgG

Chain Ab:



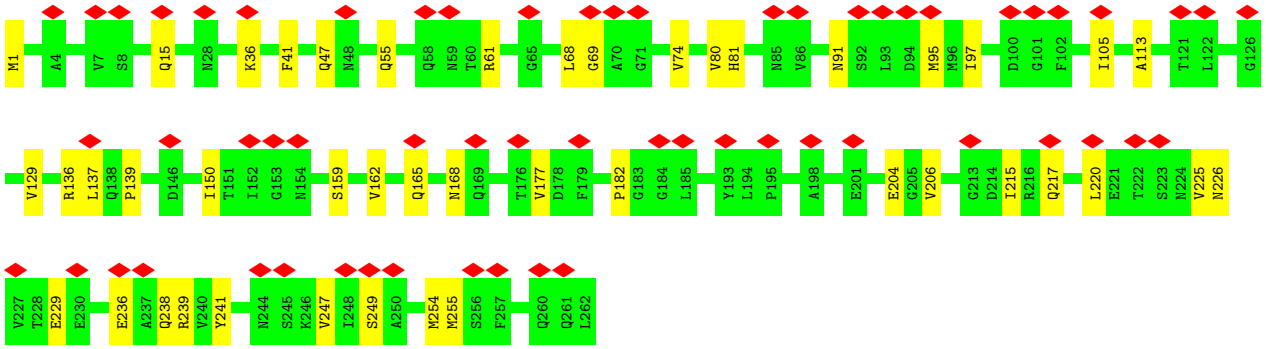
• Molecule 1: Flagellar basal-body rod protein FlgG

Chain Ac:



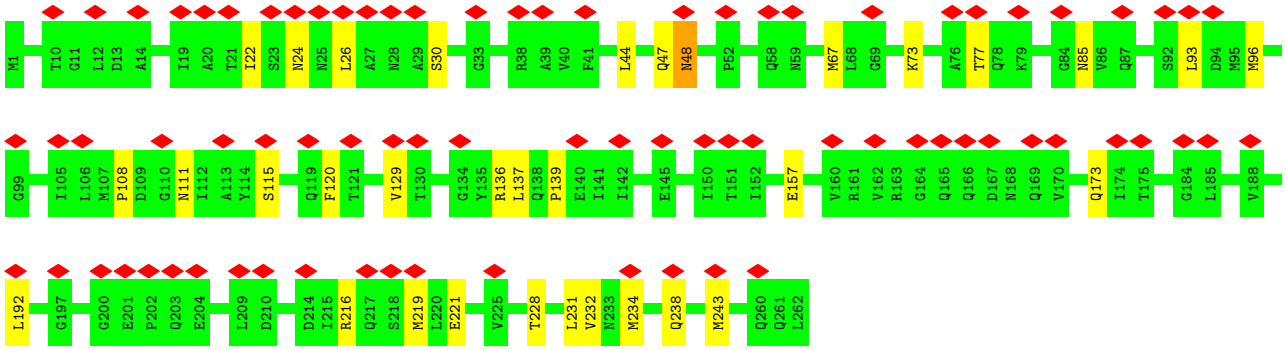
• Molecule 1: Flagellar basal-body rod protein FlgG

Chain Ad:



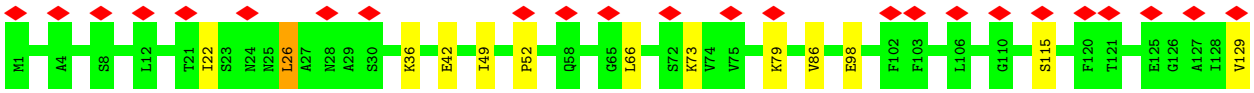
• Molecule 1: Flagellar basal-body rod protein FlgG

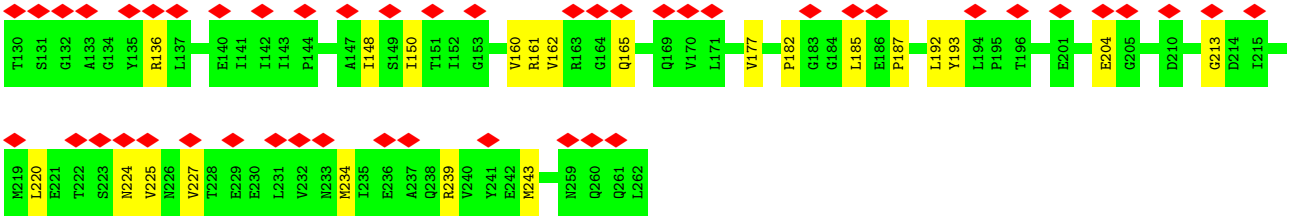
Chain Ae:



• Molecule 1: Flagellar basal-body rod protein FlgG

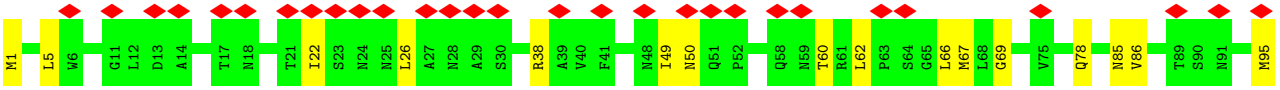
Chain Af:





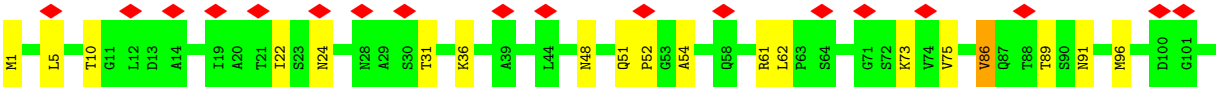
• Molecule 1: Flagellar basal-body rod protein FlgG

Chain Ag:



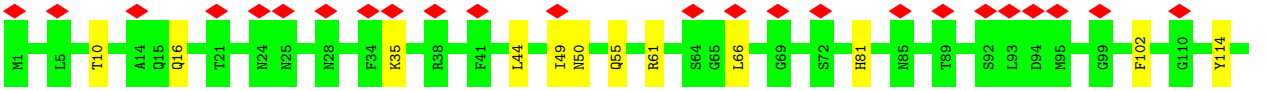
• Molecule 1: Flagellar basal-body rod protein FlgG

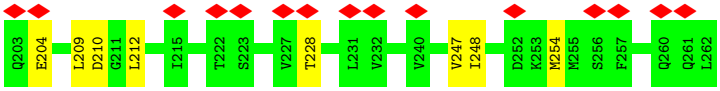
Chain Ah:



• Molecule 1: Flagellar basal-body rod protein FlgG

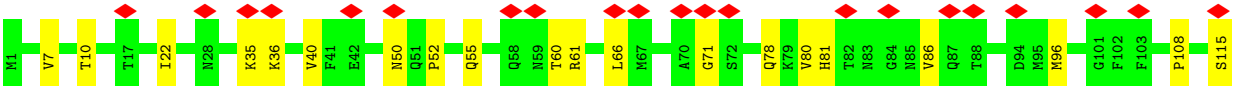
Chain Ai:

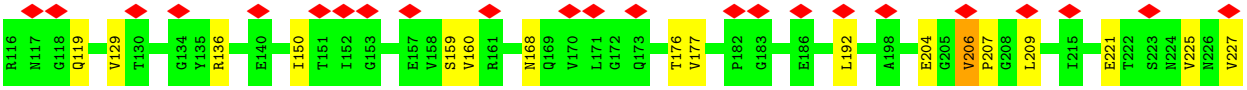


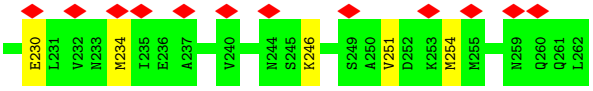


• Molecule 1: Flagellar basal-body rod protein FlgG

Chain Aj:

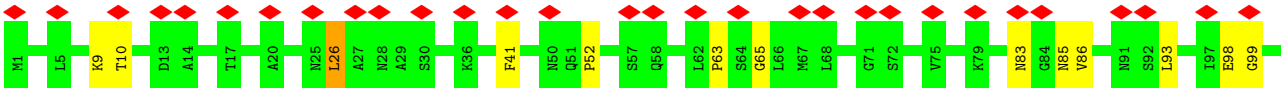


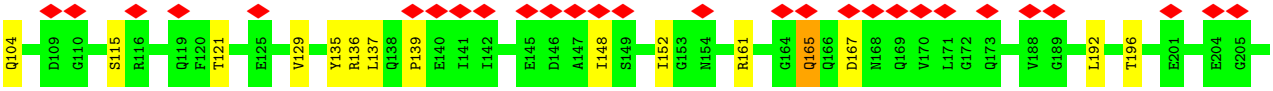


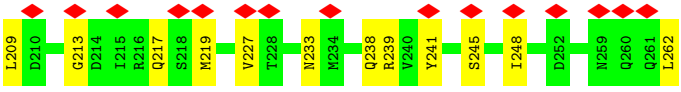


• Molecule 1: Flagellar basal-body rod protein FlgG

Chain Ak:

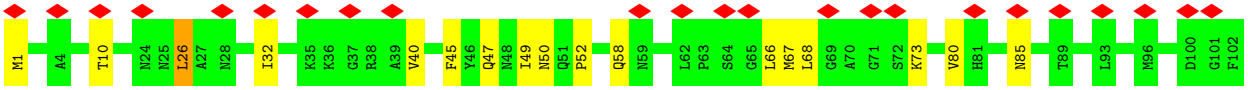


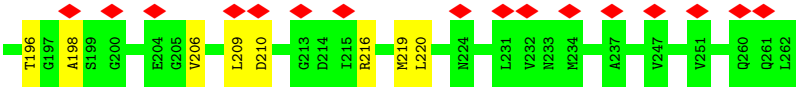




• Molecule 1: Flagellar basal-body rod protein FlgG

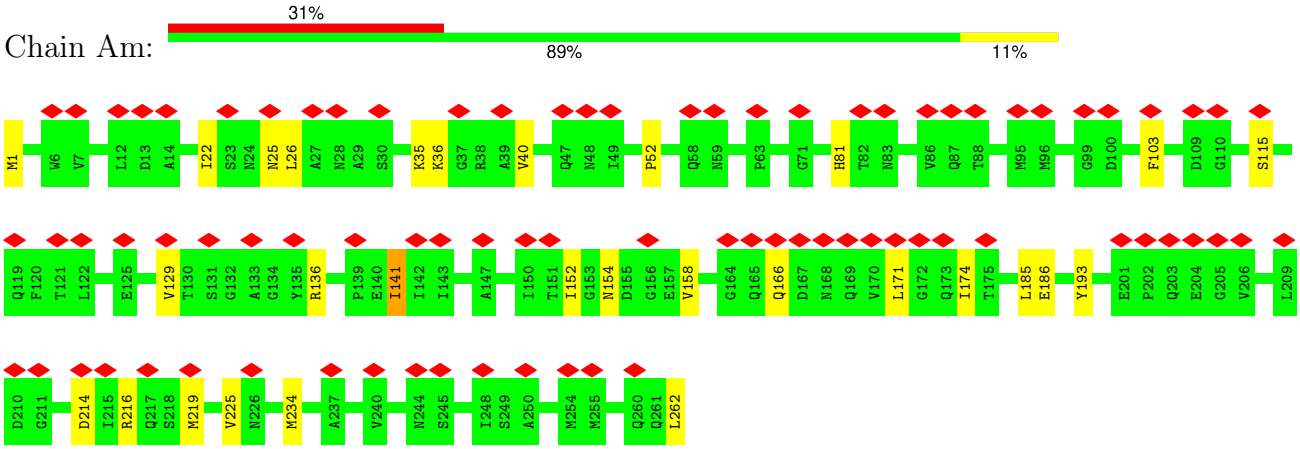
Chain Al:





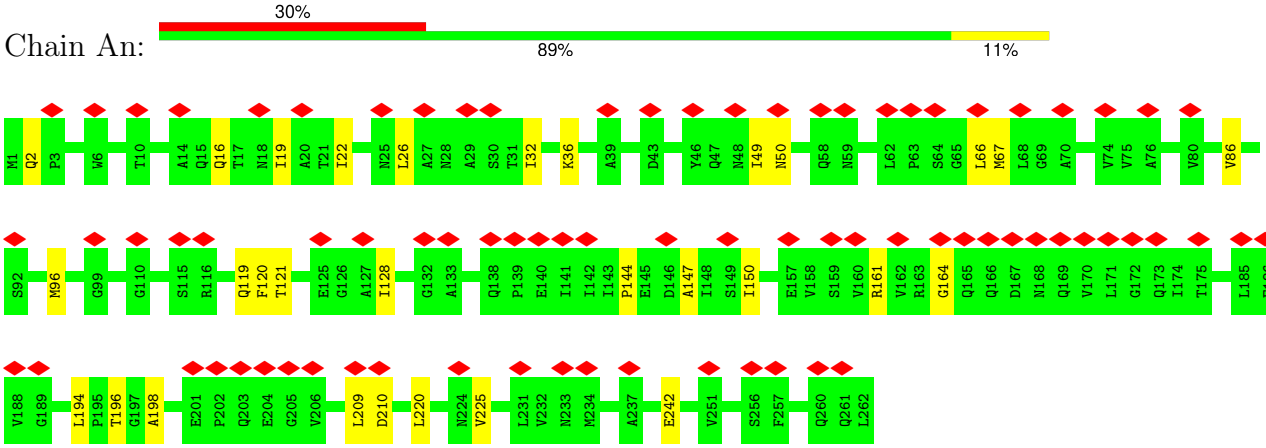
• Molecule 1: Flagellar basal-body rod protein FlgG

Chain Am:



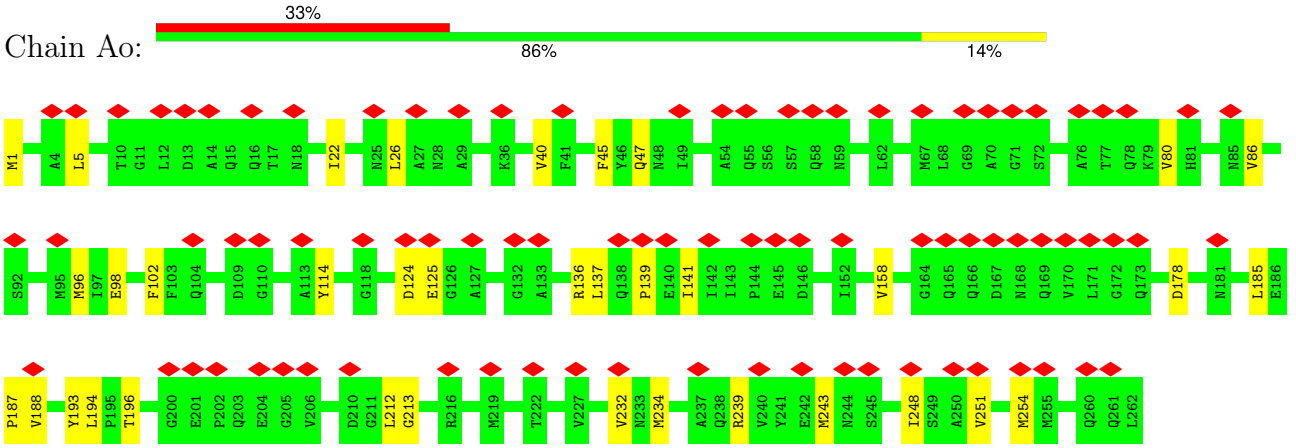
• Molecule 1: Flagellar basal-body rod protein FlgG

Chain An:



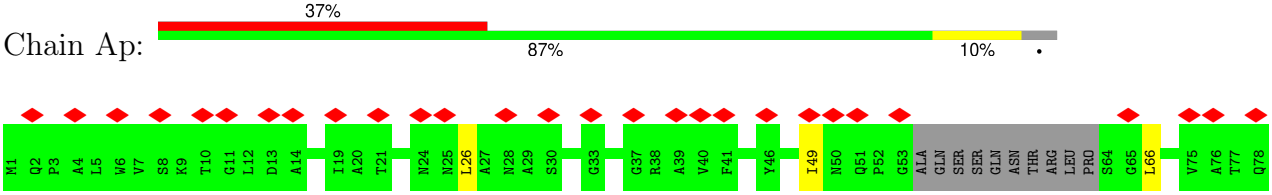
• Molecule 1: Flagellar basal-body rod protein FlgG

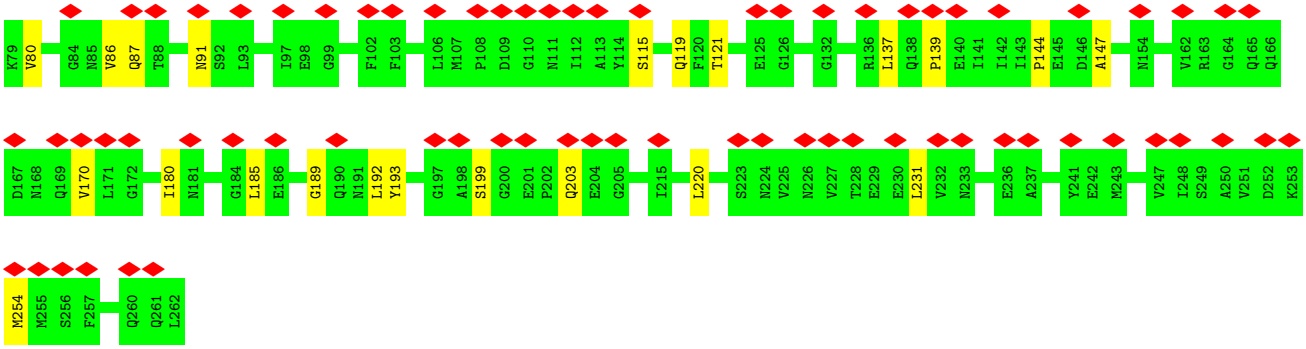
Chain Ao:



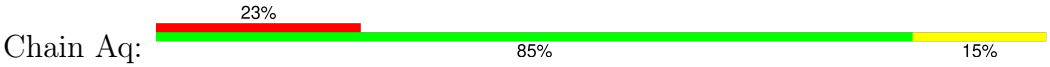
• Molecule 1: Flagellar basal-body rod protein FlgG

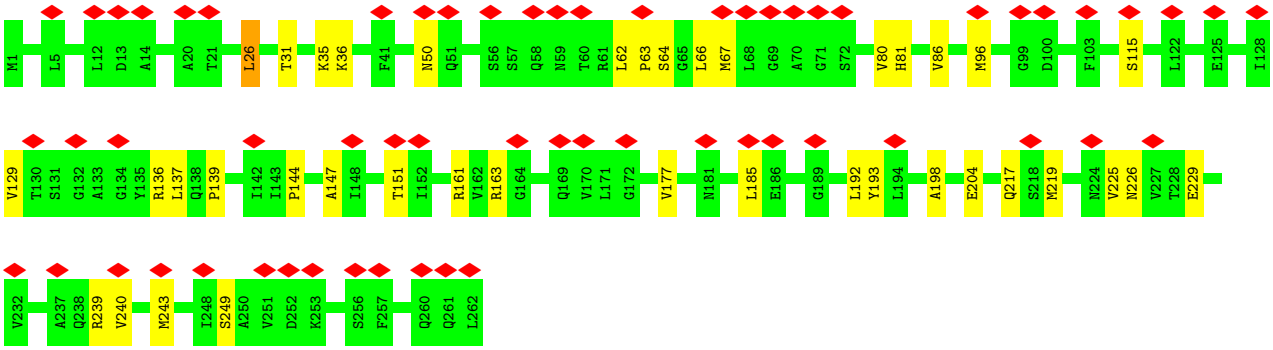
Chain Ap:



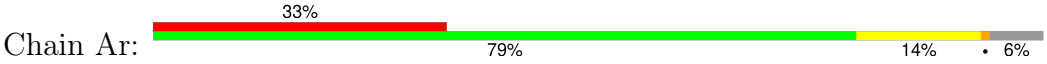


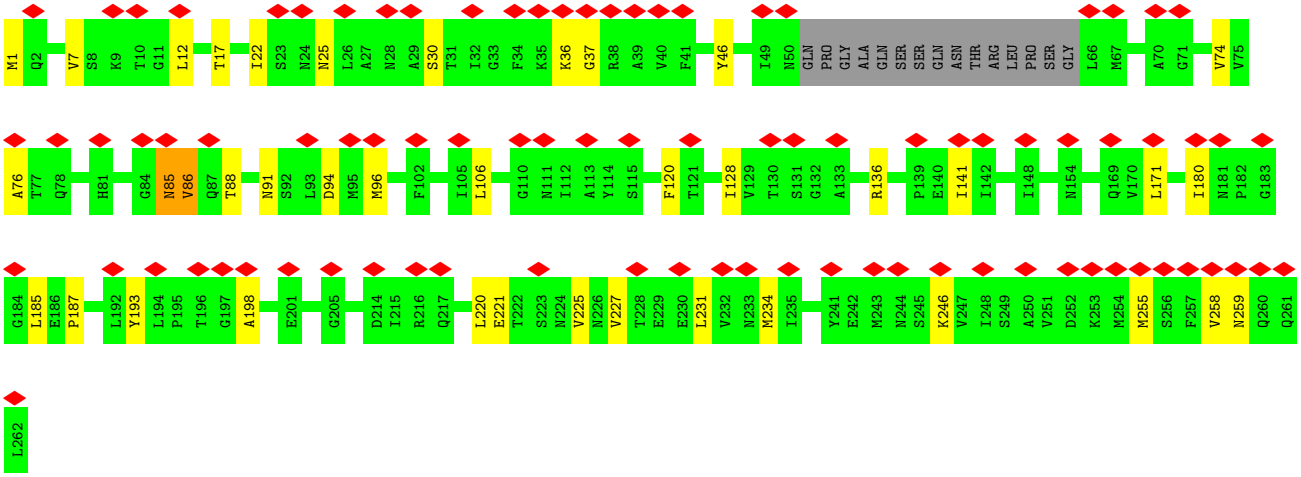
• Molecule 1: Flagellar basal-body rod protein FlgG



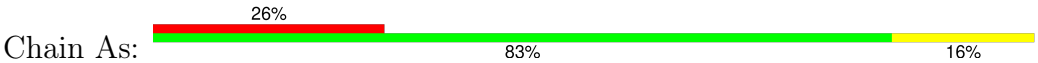


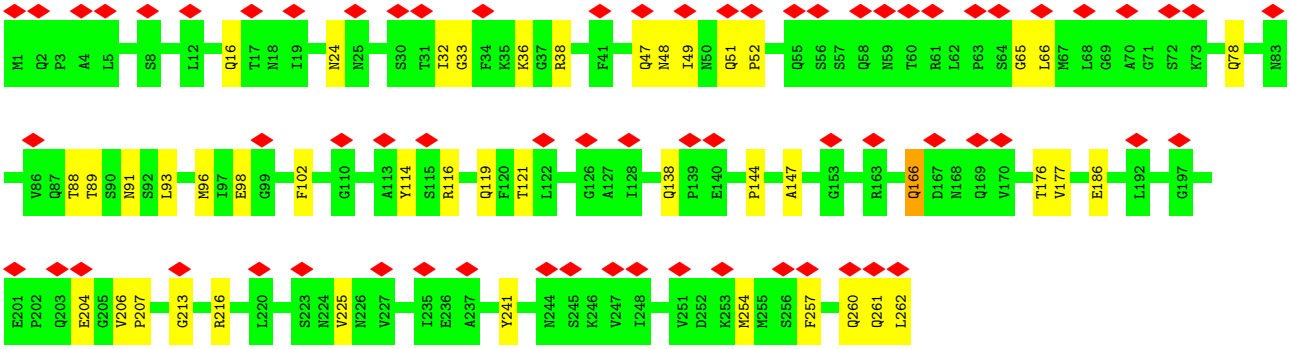
• Molecule 1: Flagellar basal-body rod protein FlgG





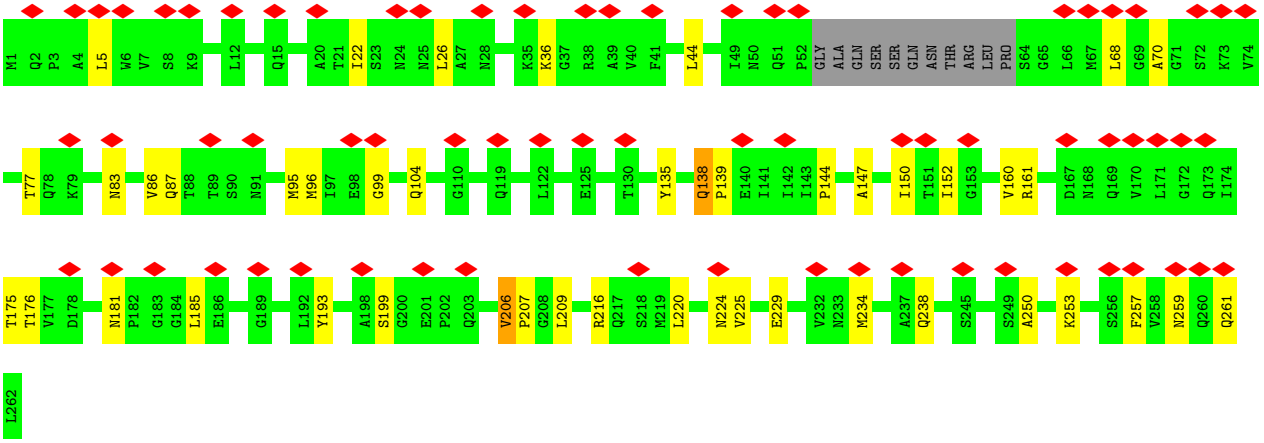
• Molecule 1: Flagellar basal-body rod protein FlgG





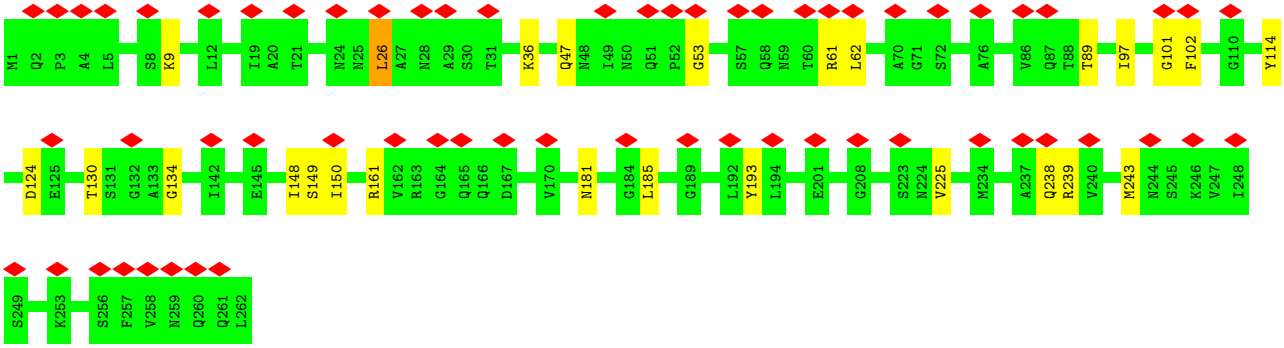
• Molecule 1: Flagellar basal-body rod protein FlgG

Chain At:



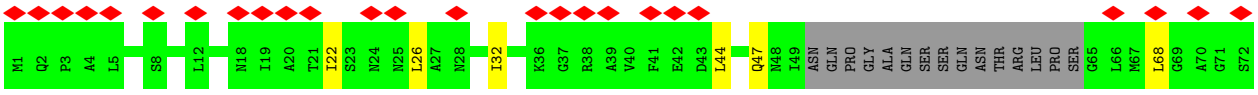
• Molecule 1: Flagellar basal-body rod protein FlgG

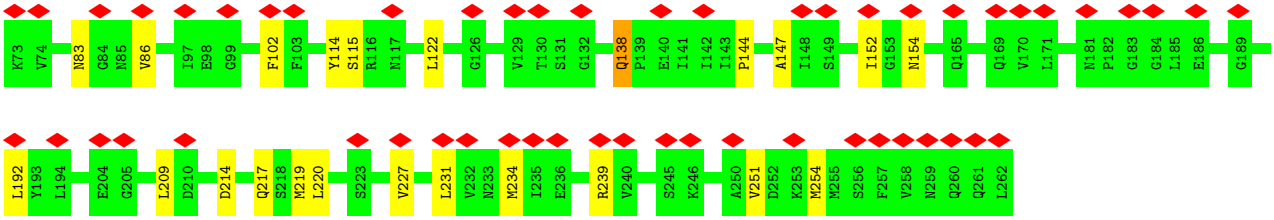
Chain Au:



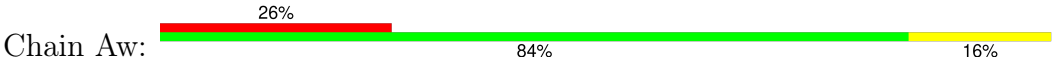
• Molecule 1: Flagellar basal-body rod protein FlgG

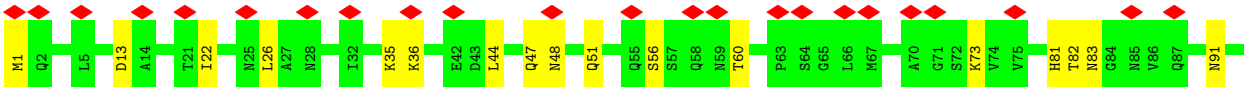
Chain Av:



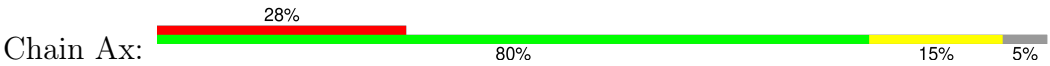


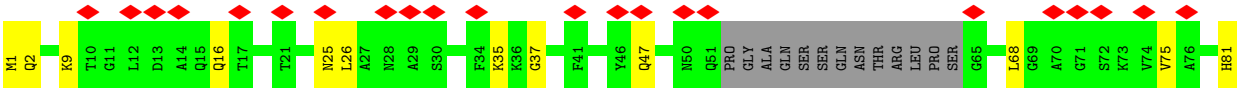
• Molecule 1: Flagellar basal-body rod protein FlgG



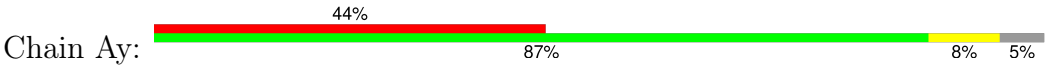


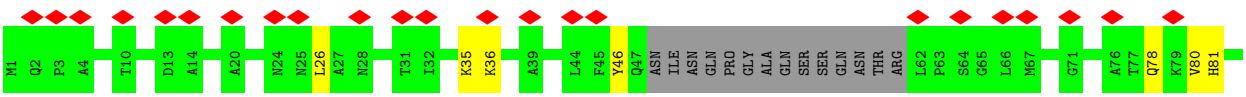
• Molecule 1: Flagellar basal-body rod protein FlgG

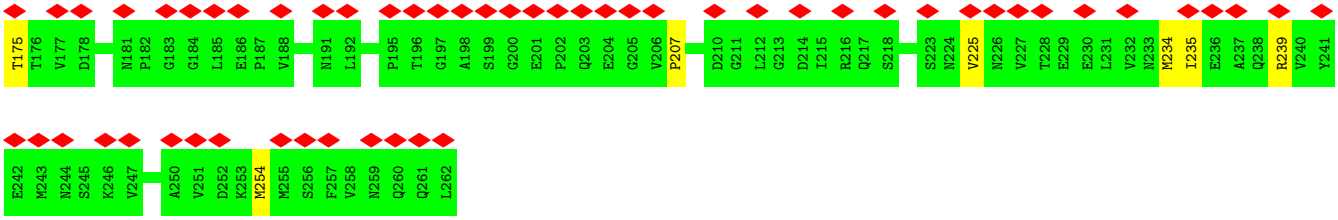




• Molecule 1: Flagellar basal-body rod protein FlgG

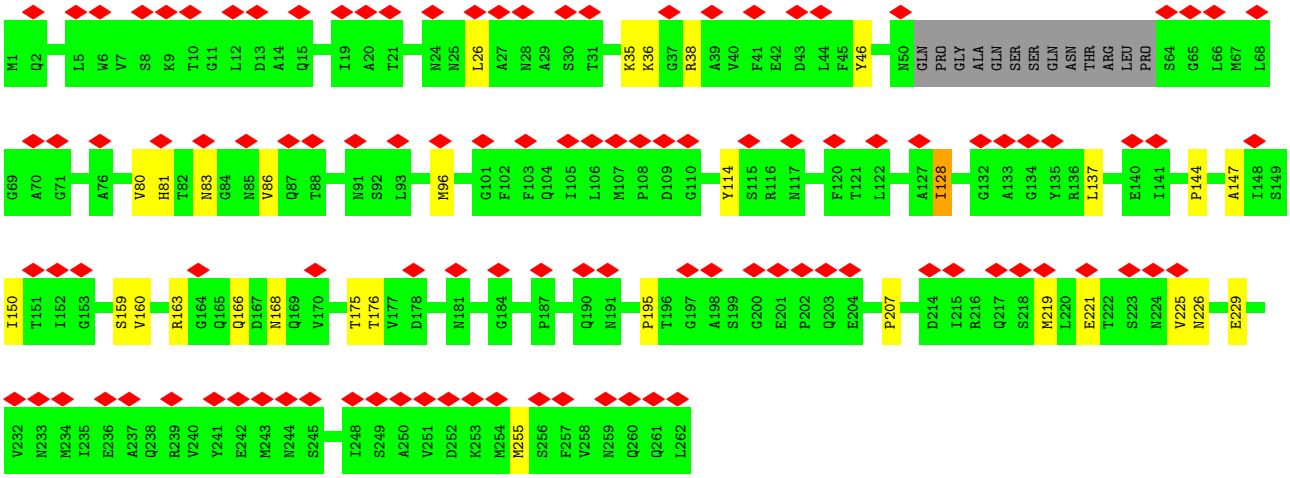






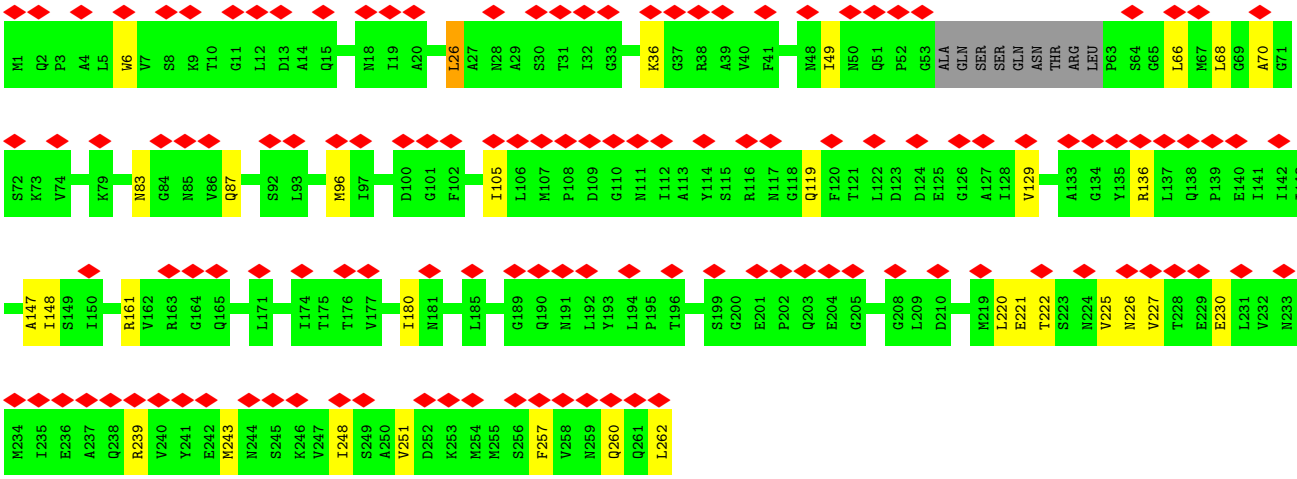
• Molecule 1: Flagellar basal-body rod protein FlgG

Chain Az:



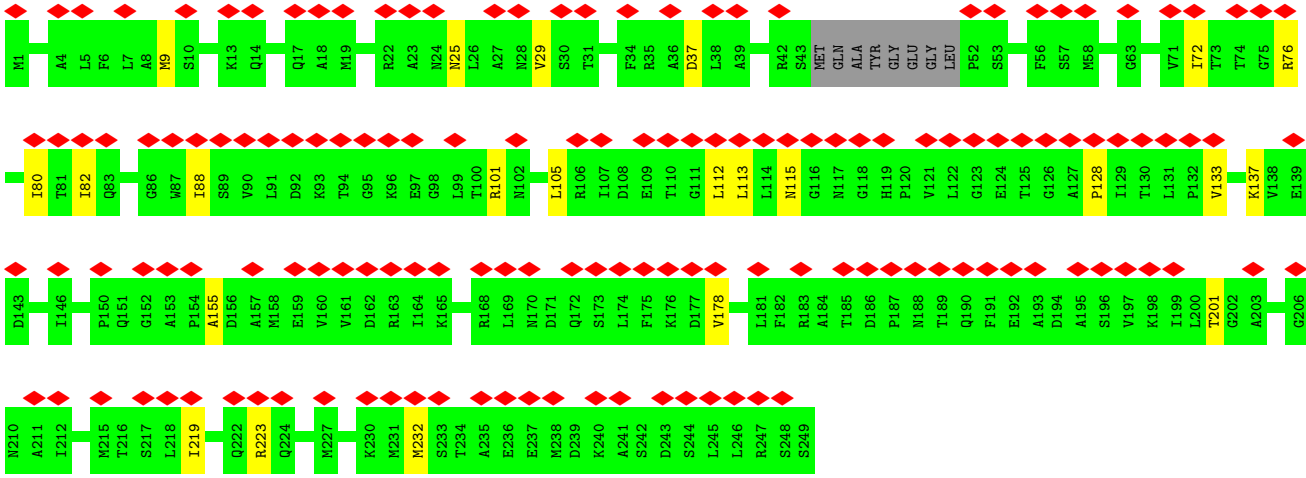
• Molecule 1: Flagellar basal-body rod protein FlgG

Chain Bb:



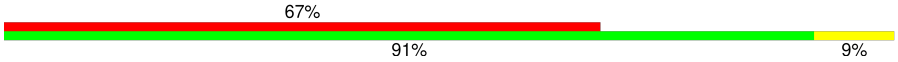
• Molecule 2: Flagellar basal-body rod protein FlgF

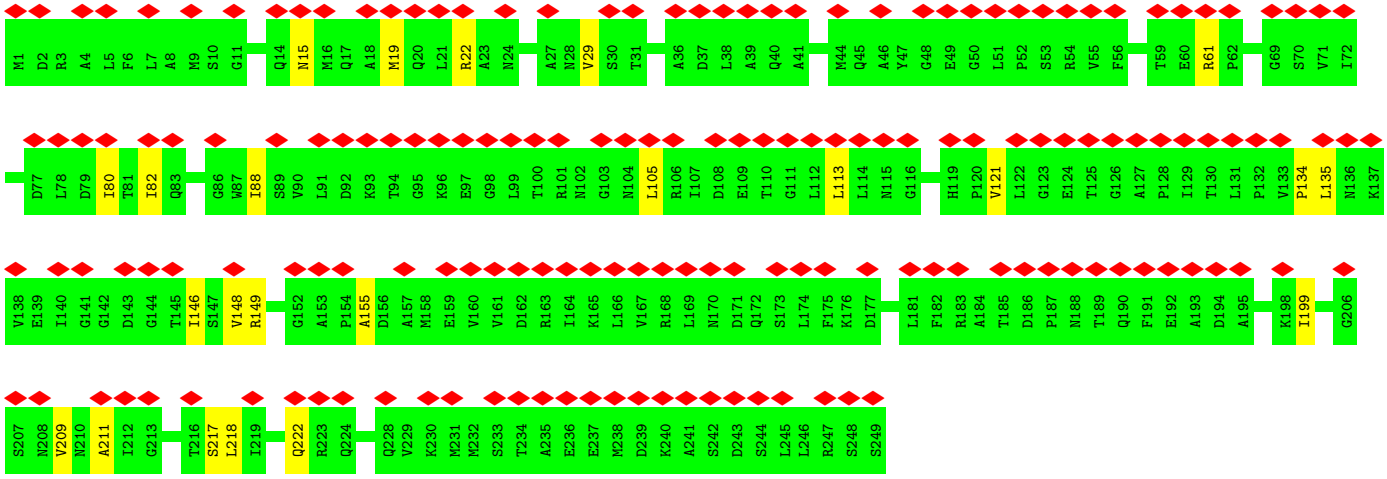
Chain Ba:



• Molecule 2: Flagellar basal-body rod protein FlgF

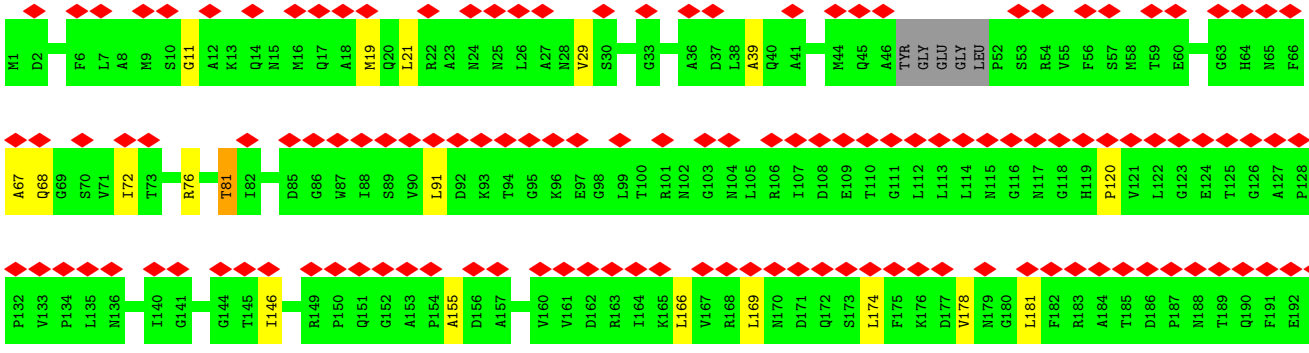
Chain Bc:

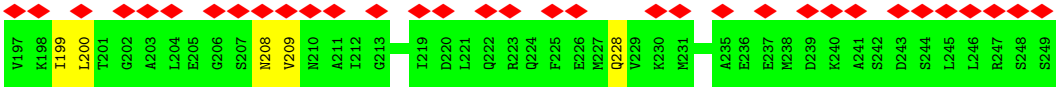




• Molecule 2: Flagellar basal-body rod protein FlgF

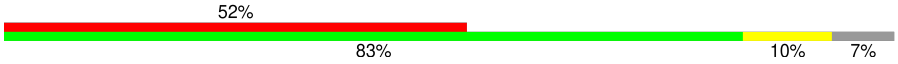
Chain Bd:

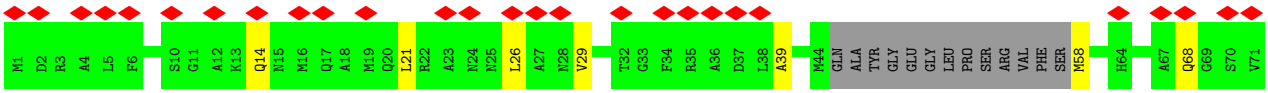


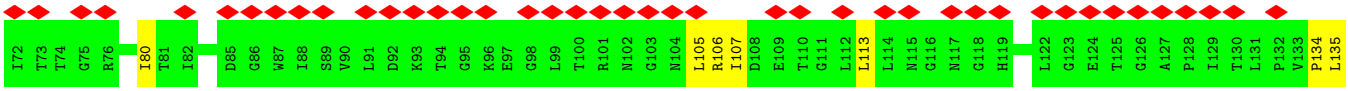


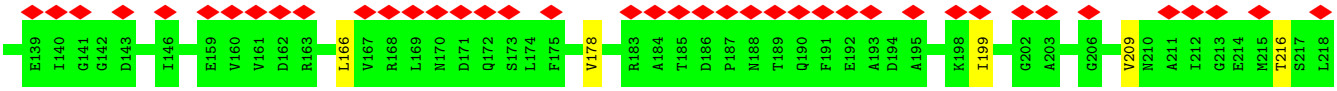
• Molecule 2: Flagellar basal-body rod protein FlgF

Chain Bv:



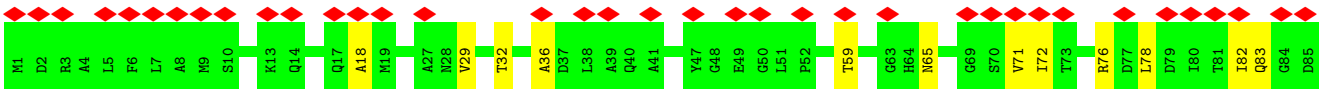


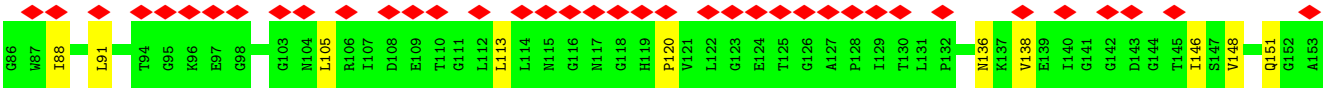


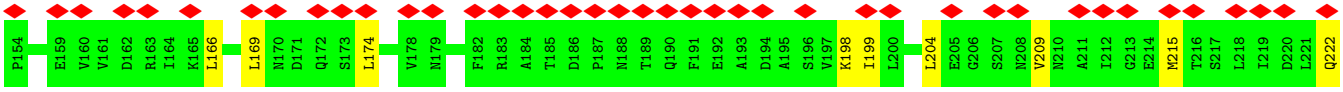


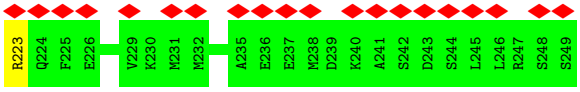
• Molecule 2: Flagellar basal-body rod protein FlgF

Chain Bw:



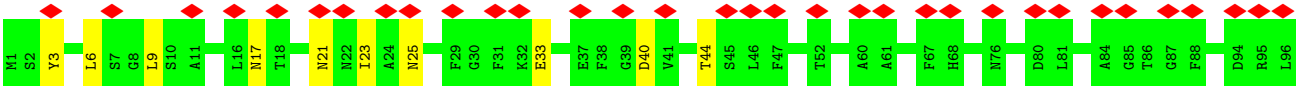


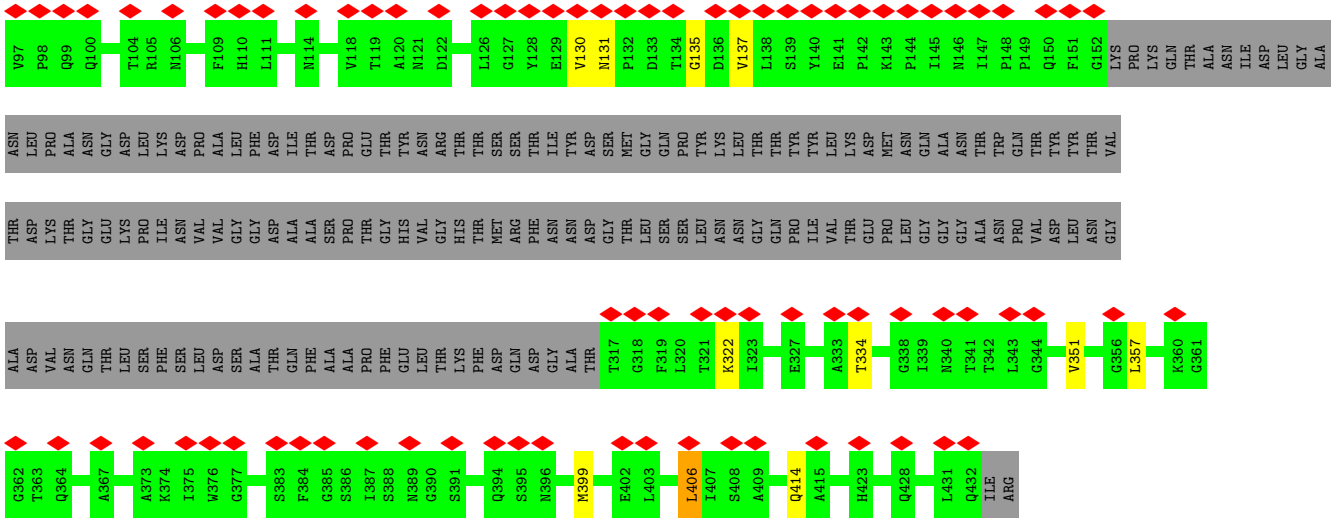




• Molecule 3: Flagellar hook protein FlgE

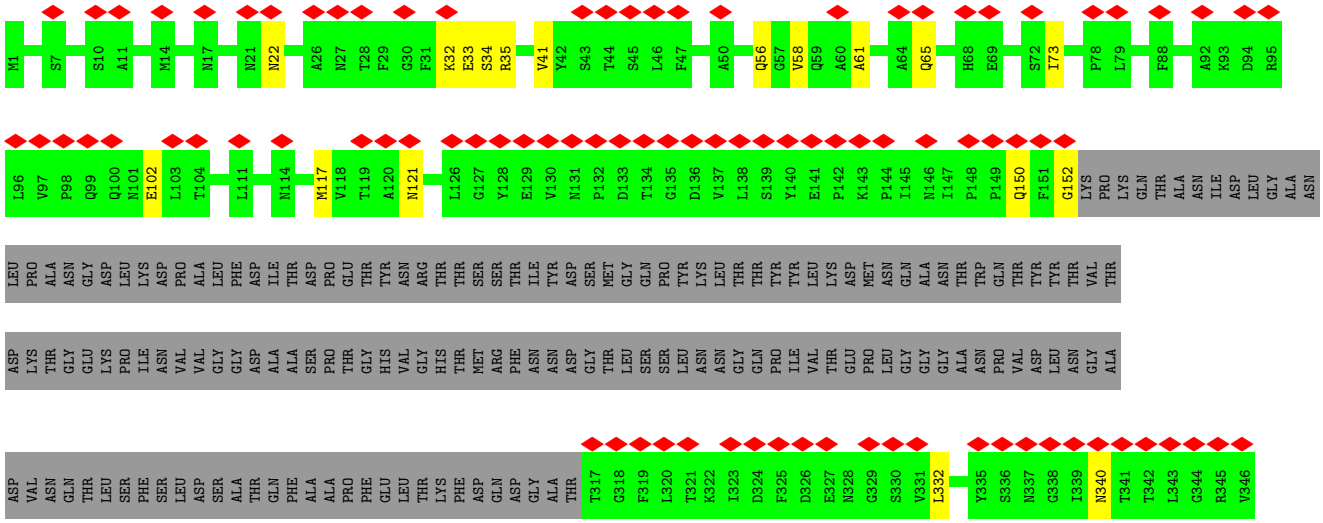
Chain Be:





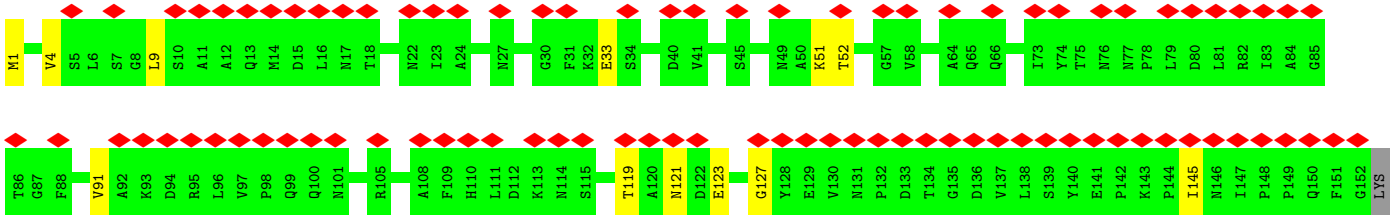
• Molecule 3: Flagellar hook protein FlgE

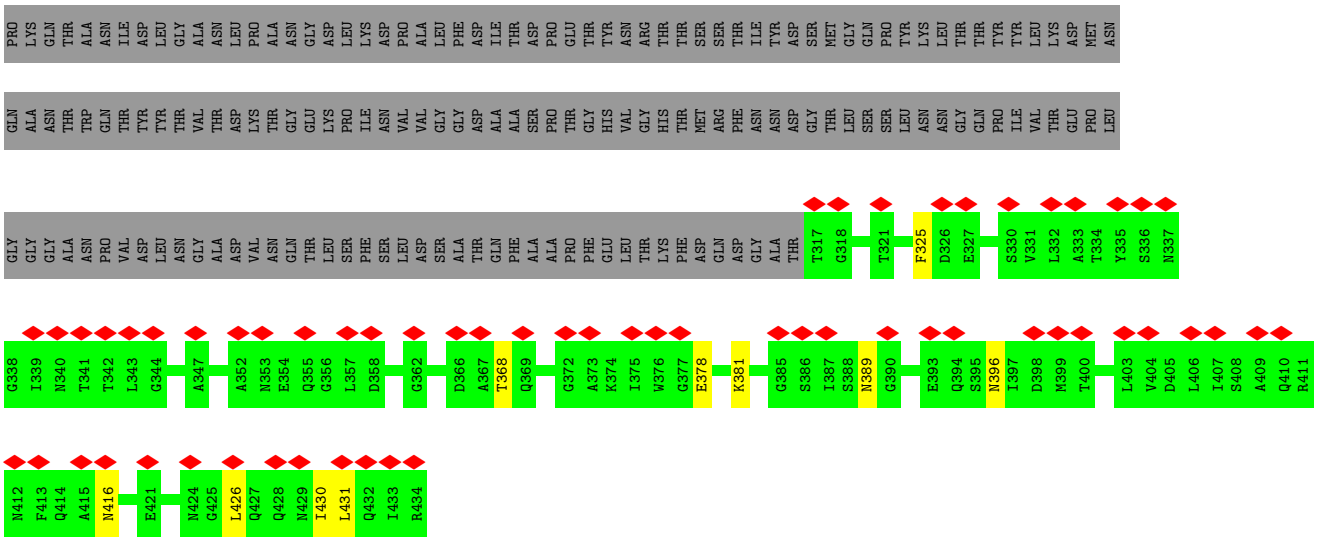
Chain Bf:



• Molecule 3: Flagellar hook protein FlgE

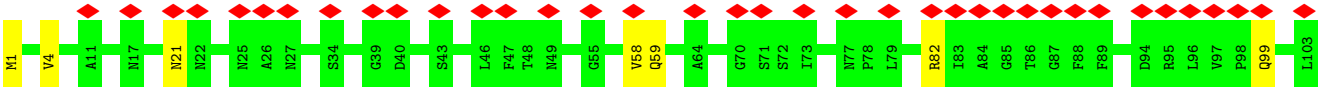
Chain Bg:

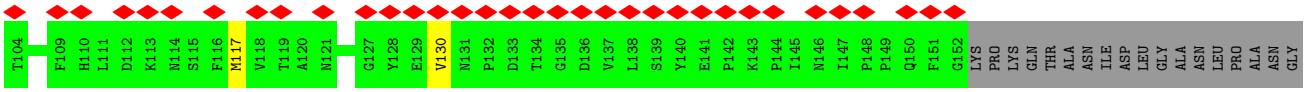


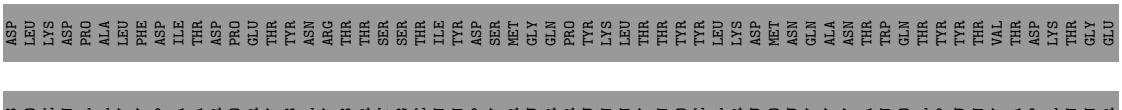


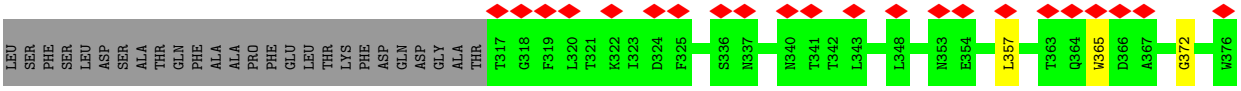
• Molecule 3: Flagellar hook protein FlgE

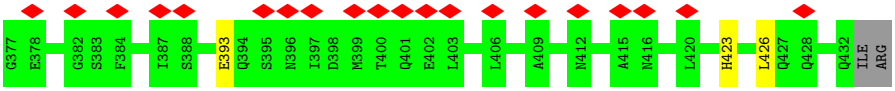
Chain Bh:





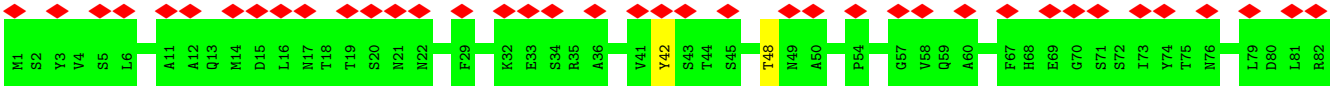


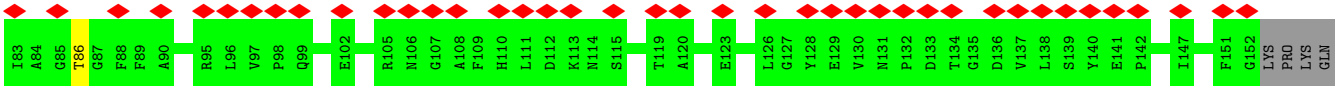


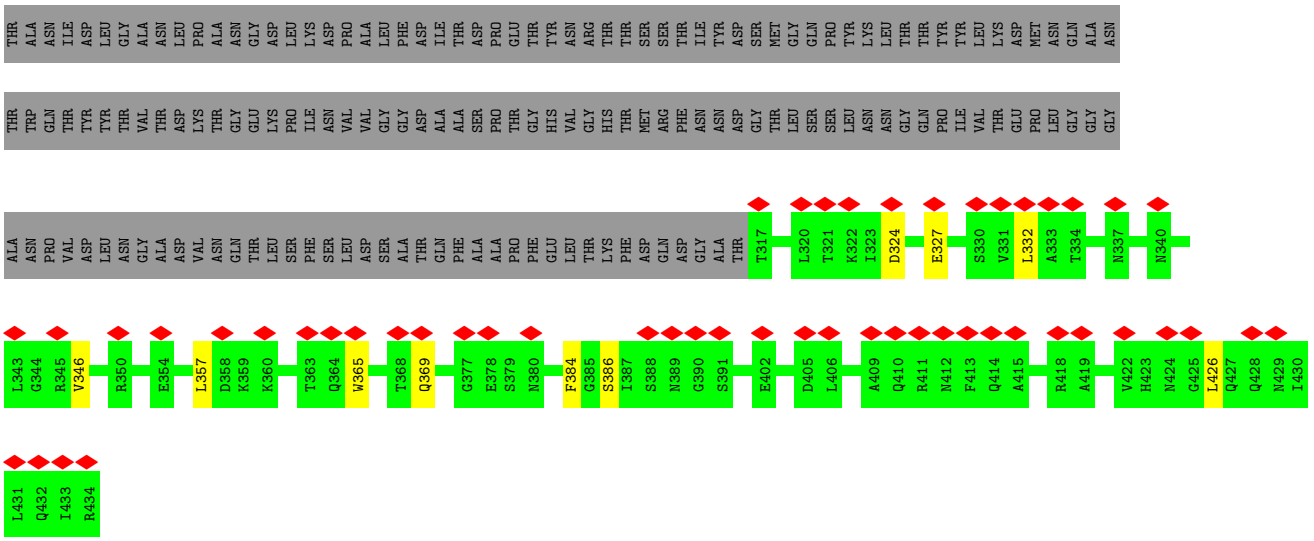


• Molecule 3: Flagellar hook protein FlgE

Chain Bi:

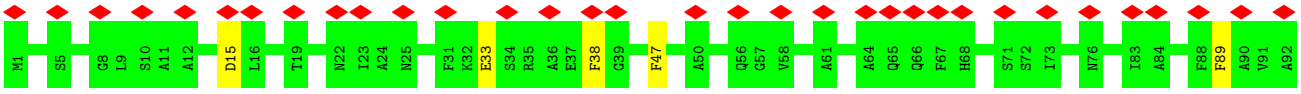


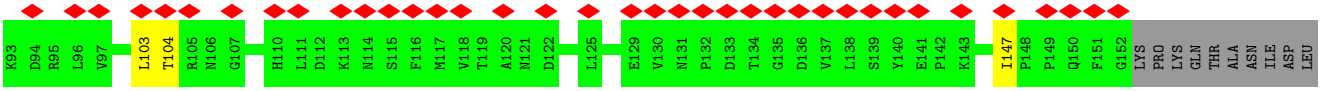


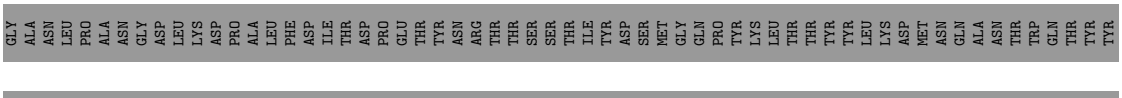


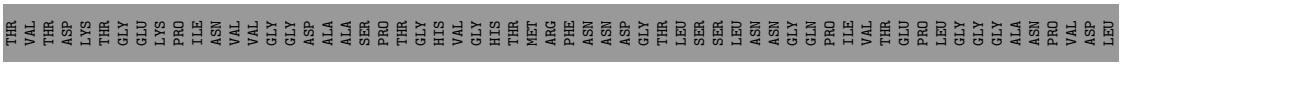
• Molecule 3: Flagellar hook protein FlgE

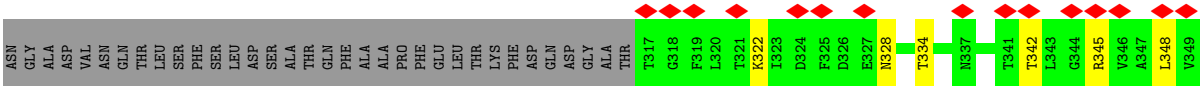
Chain Bj:

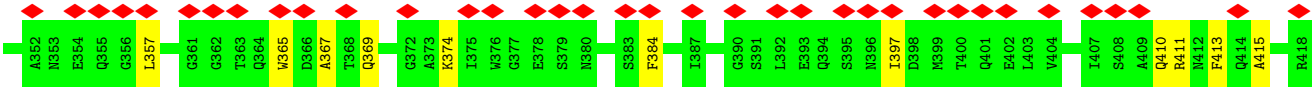


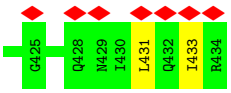






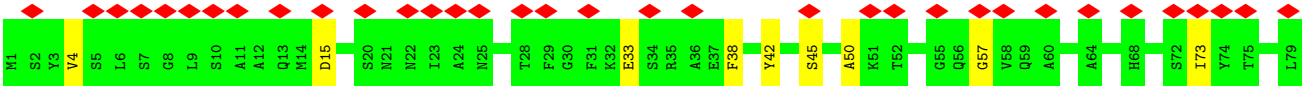


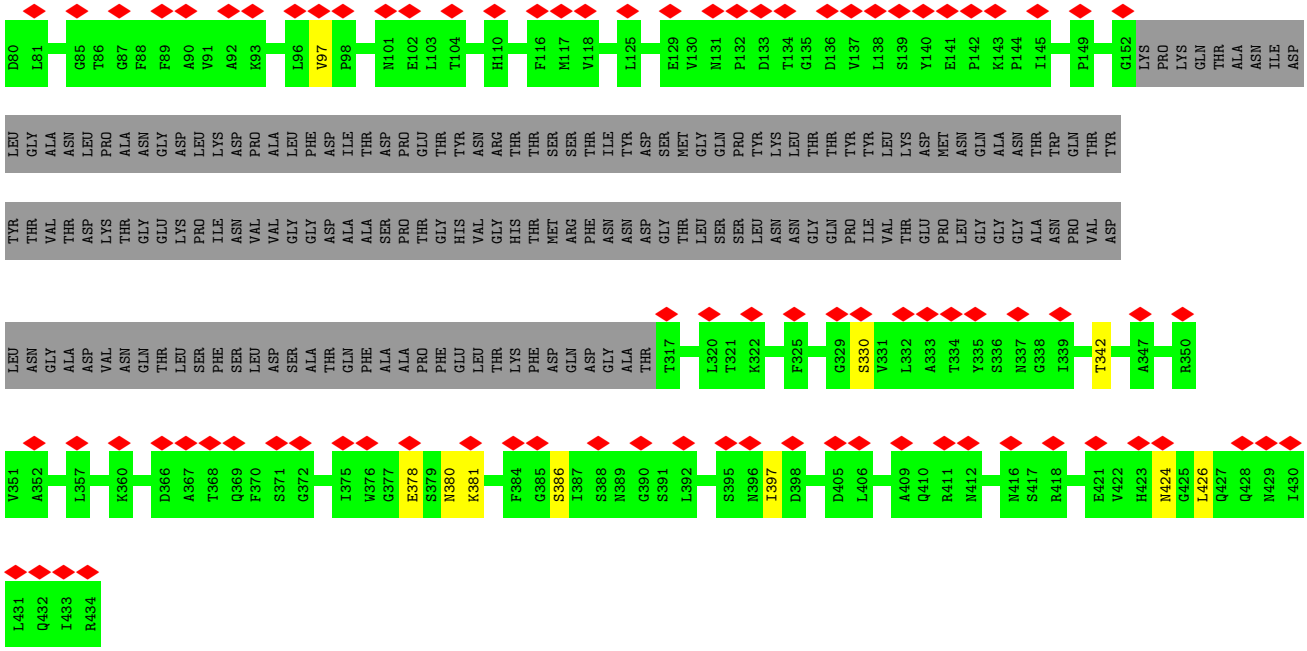




• Molecule 3: Flagellar hook protein FlgE

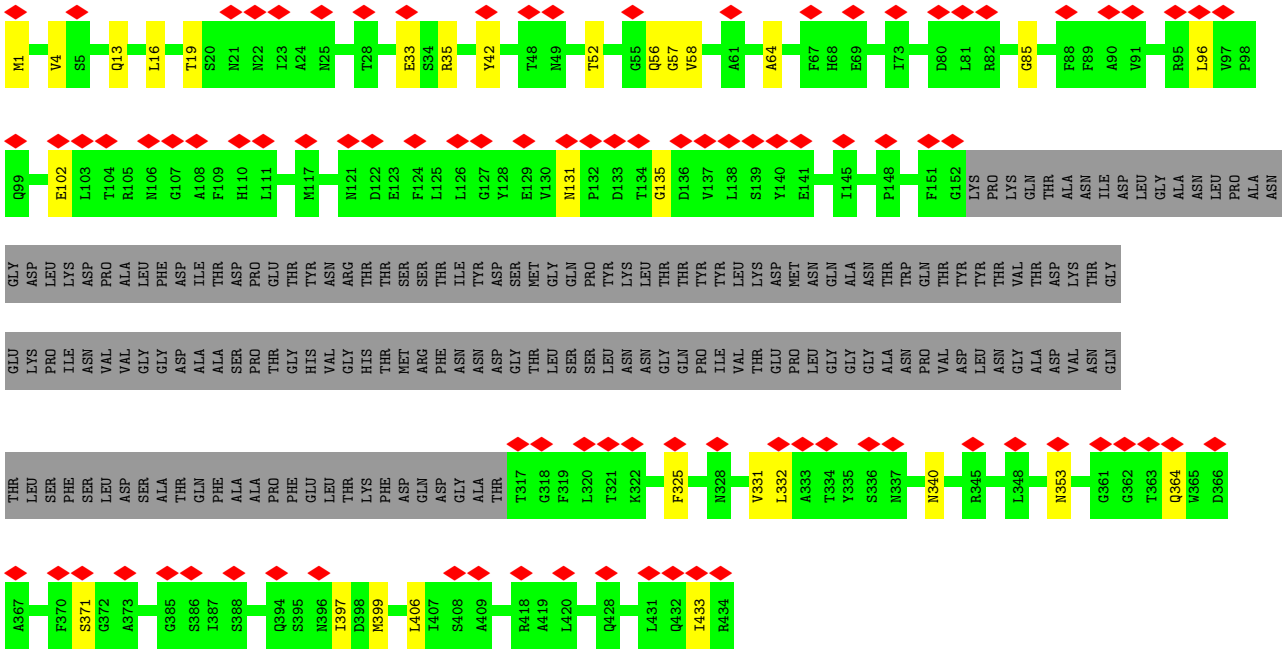
Chain Bk:





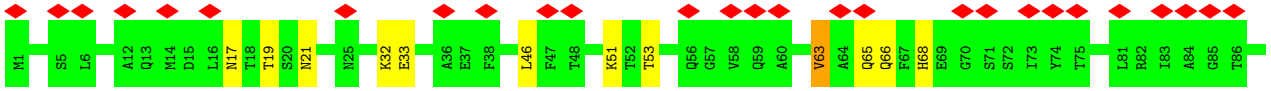
• Molecule 3: Flagellar hook protein FlgE

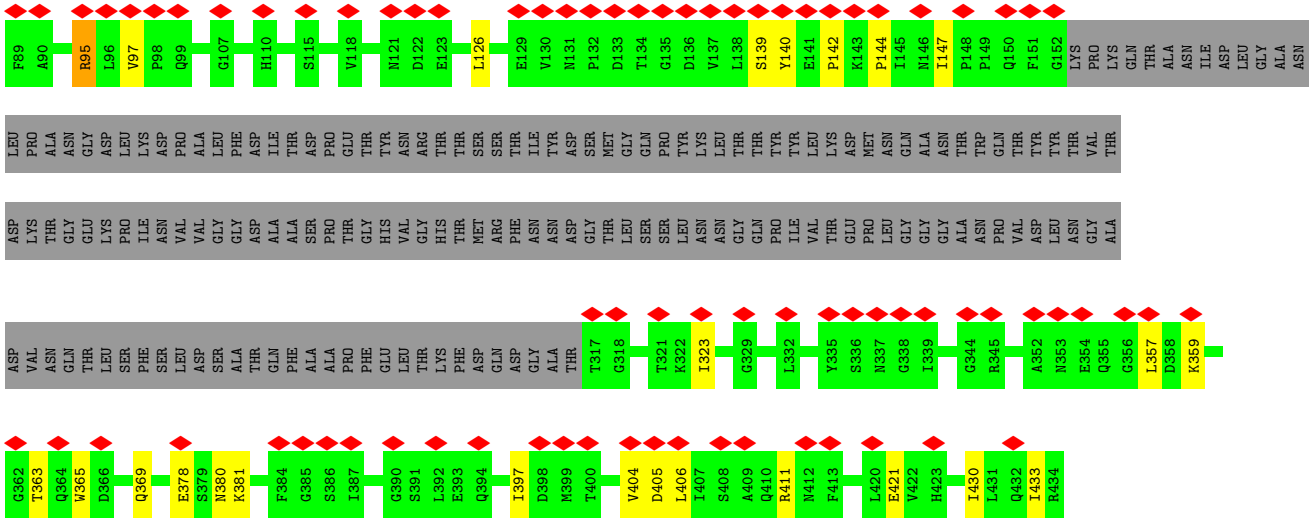
Chain Bl:



• Molecule 3: Flagellar hook protein FlgE

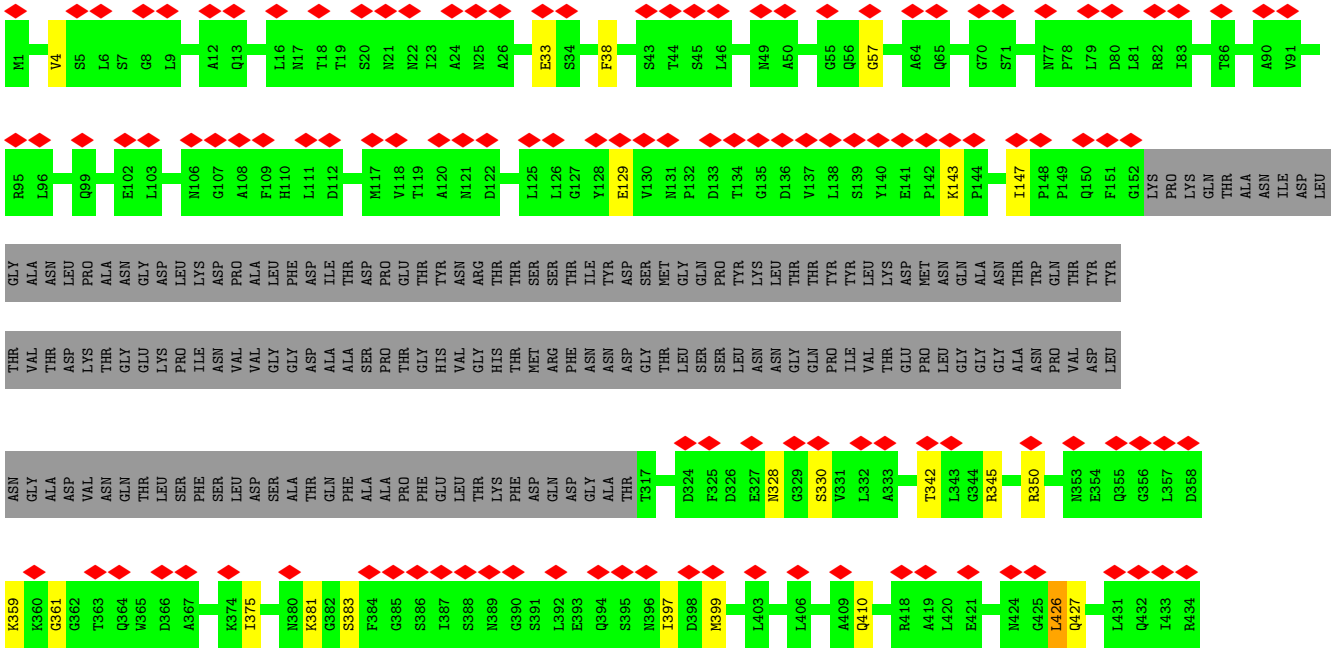
Chain Bm:





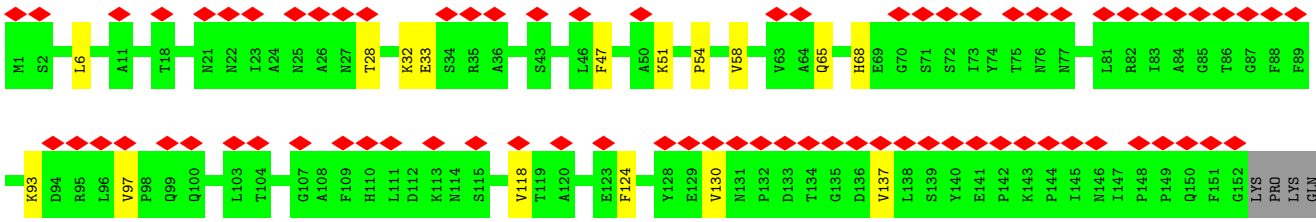
• Molecule 3: Flagellar hook protein FlgE

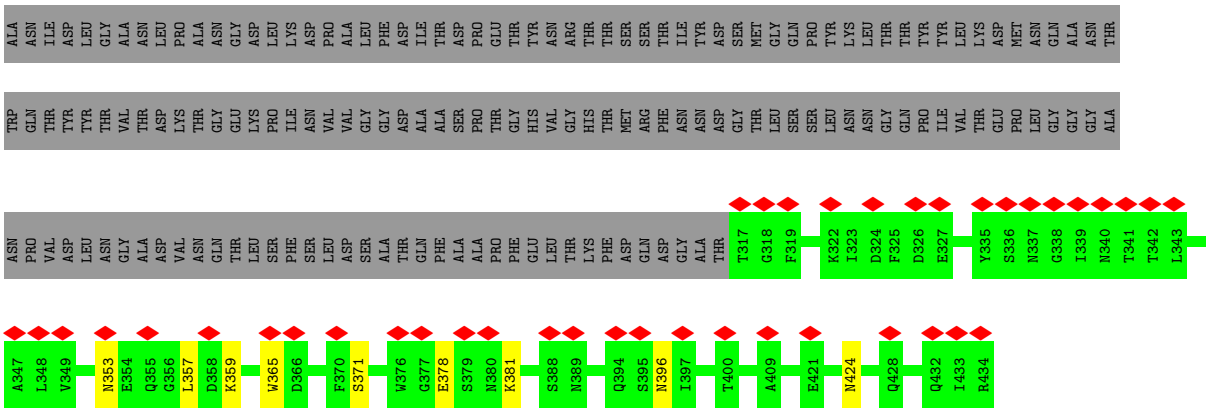
Chain Bn:



• Molecule 3: Flagellar hook protein FlgE

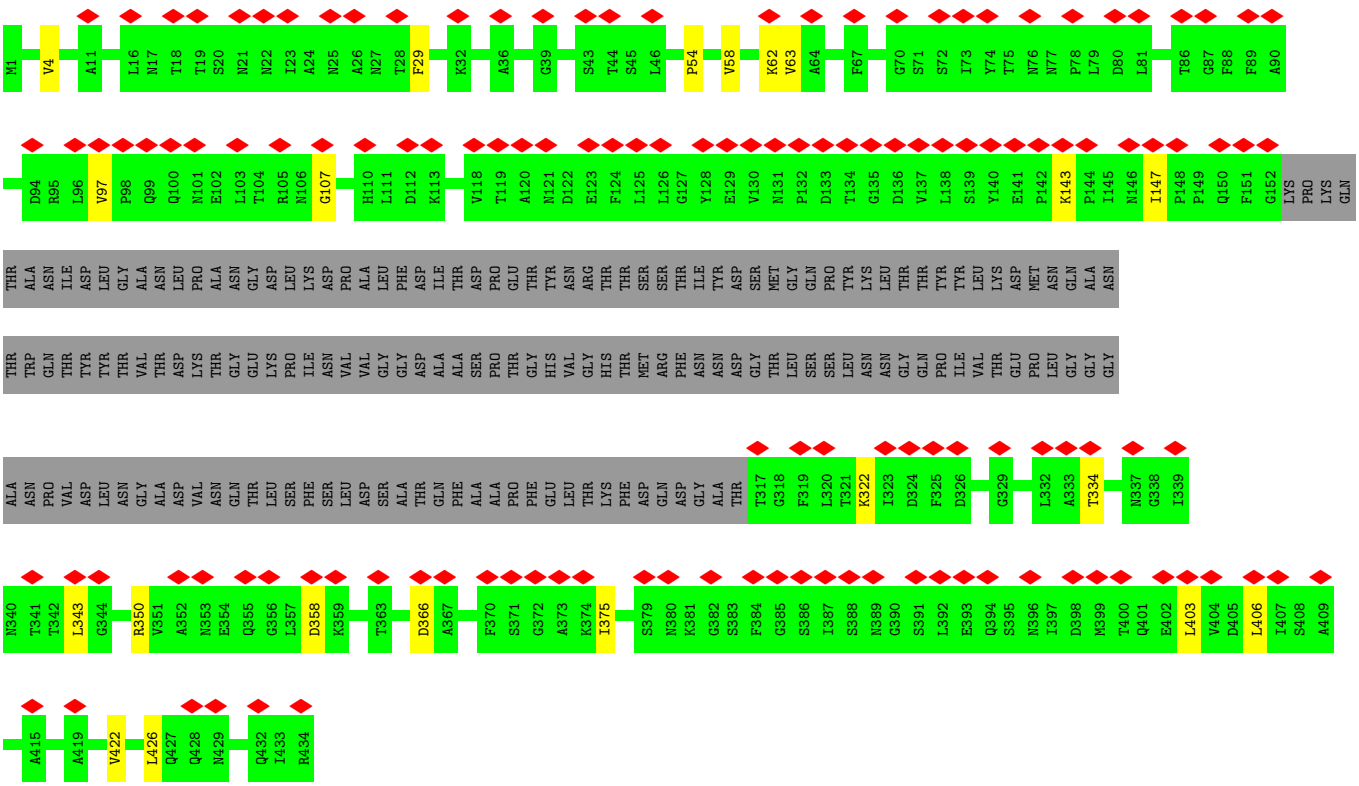
Chain Bo:





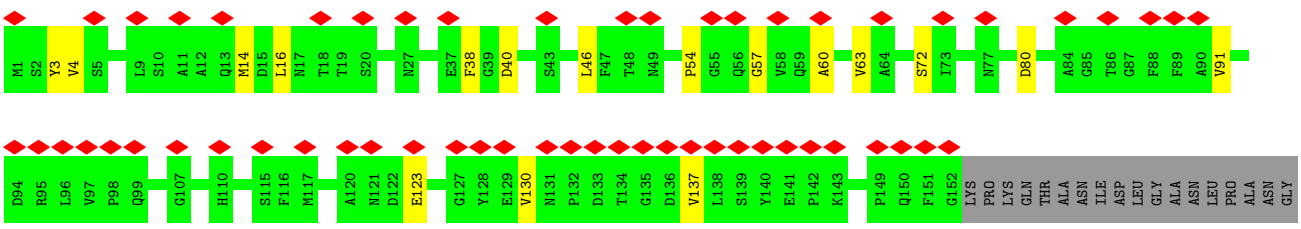
• Molecule 3: Flagellar hook protein FlgE

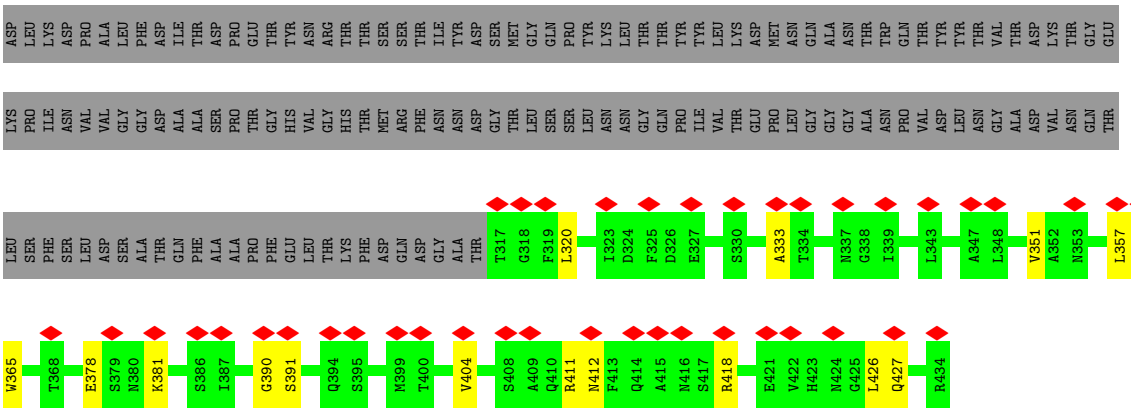
Chain Bp:



• Molecule 3: Flagellar hook protein FlgE

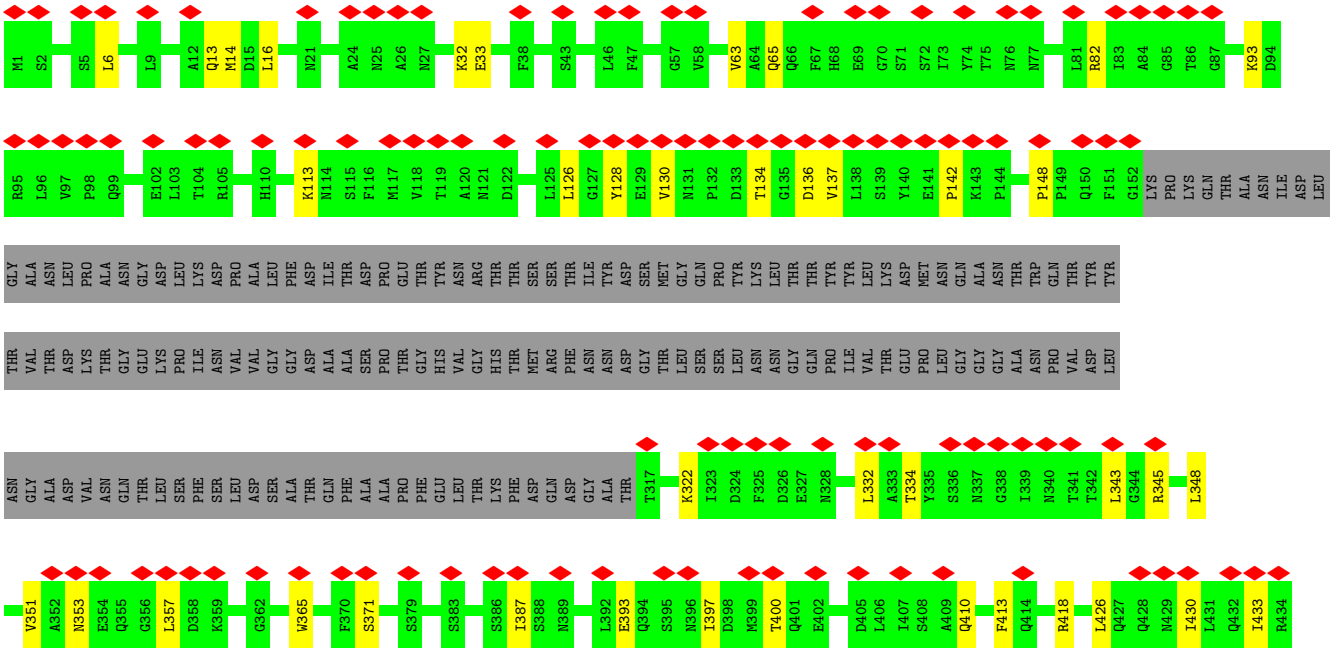
Chain Bq:





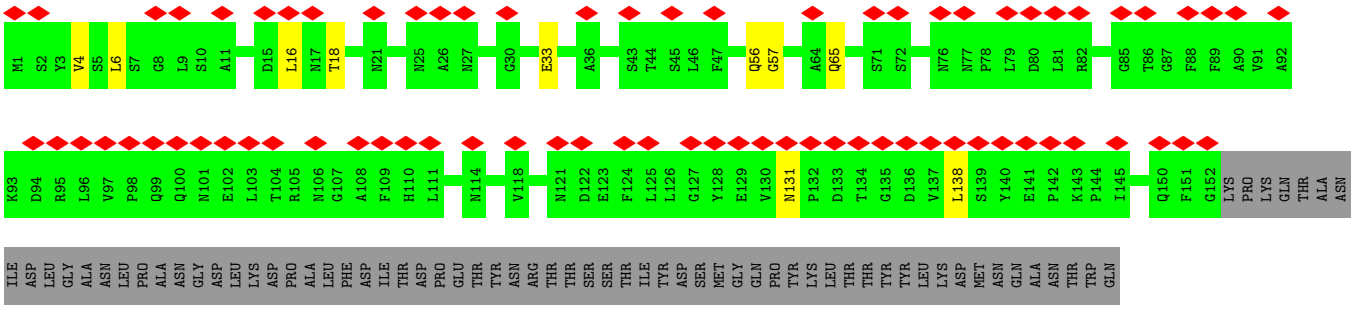
• Molecule 3: Flagellar hook protein FlgE

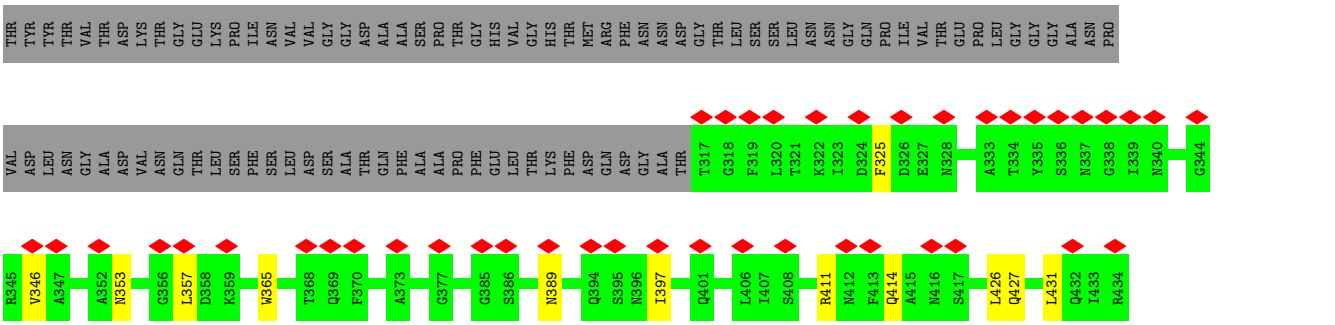
Chain Br:



• Molecule 3: Flagellar hook protein FlgE

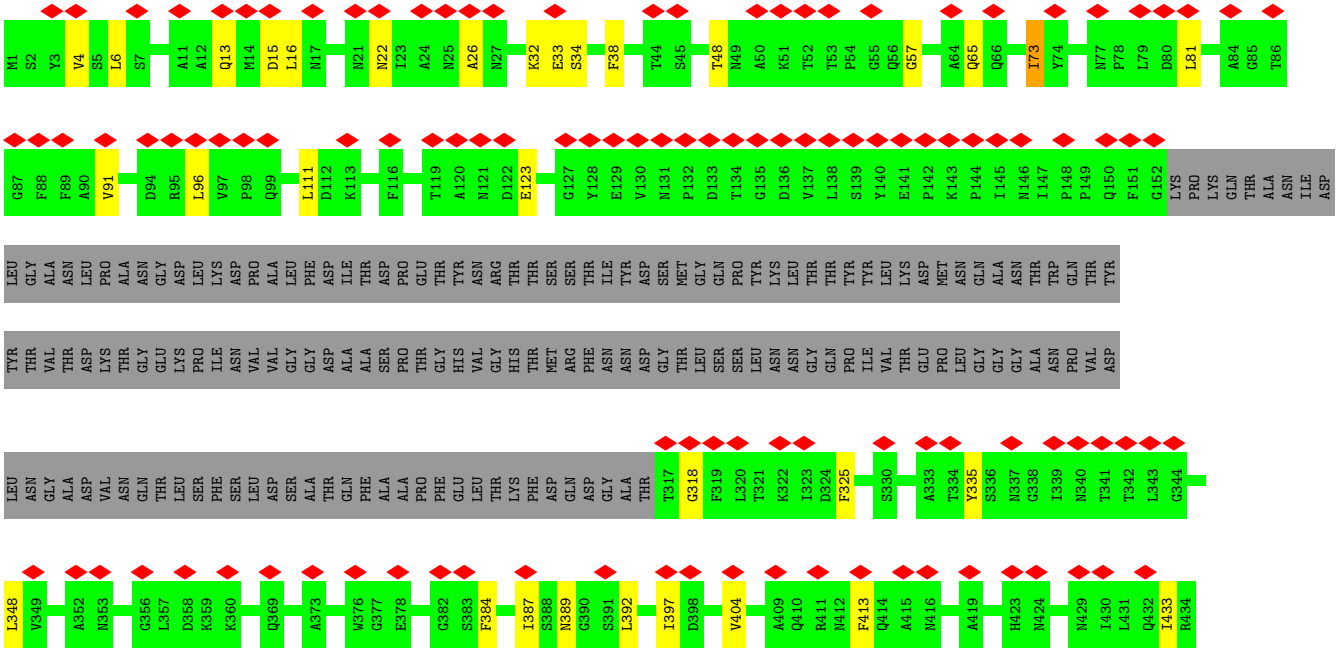
Chain Bs:





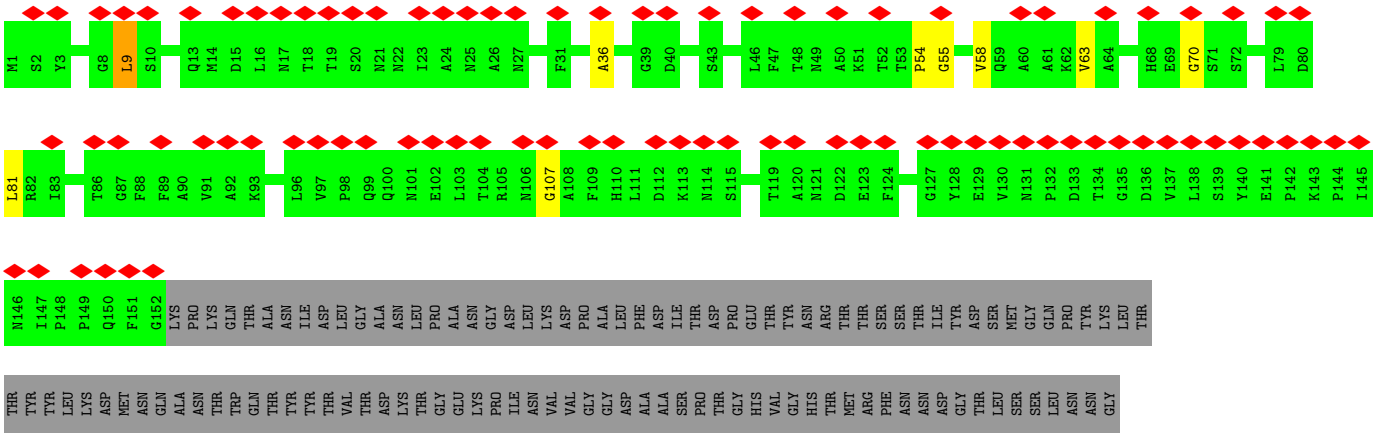
• Molecule 3: Flagellar hook protein FlgE

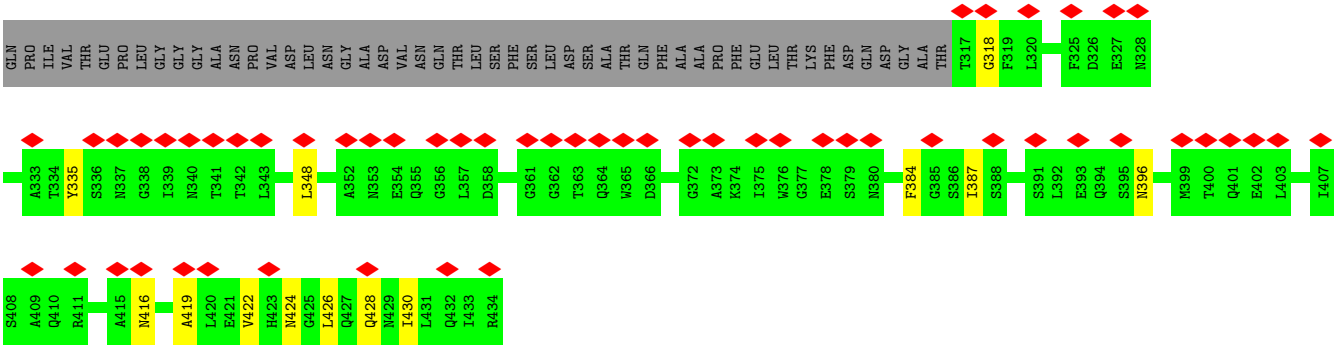
Chain Bt:



• Molecule 3: Flagellar hook protein FlgE

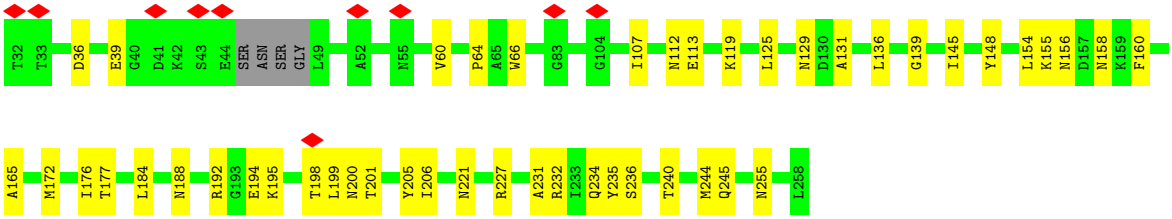
Chain Bu:





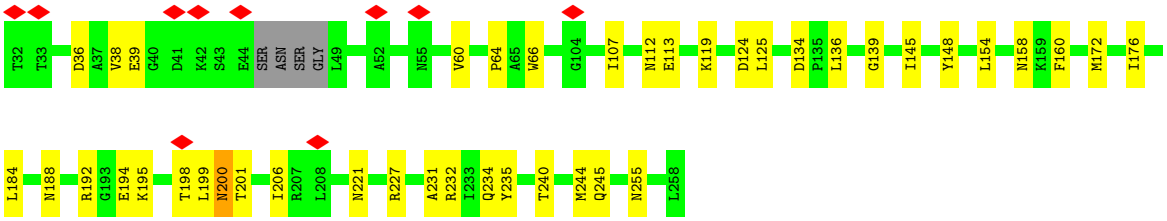
• Molecule 4: Flagellar L-ring protein

Chain Bx:



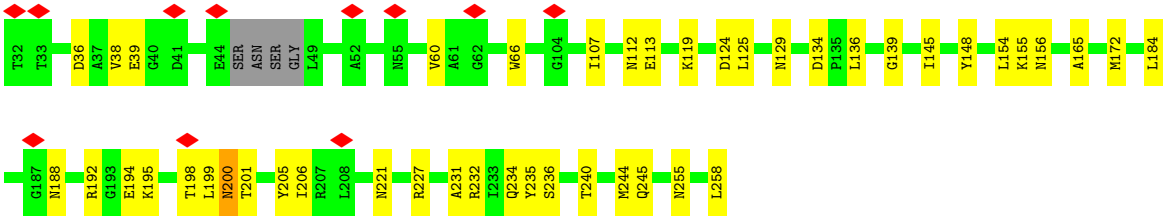
• Molecule 4: Flagellar L-ring protein

Chain By:



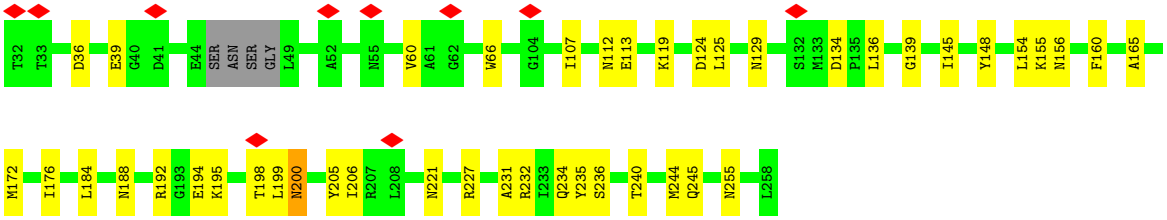
• Molecule 4: Flagellar L-ring protein

Chain Bz:



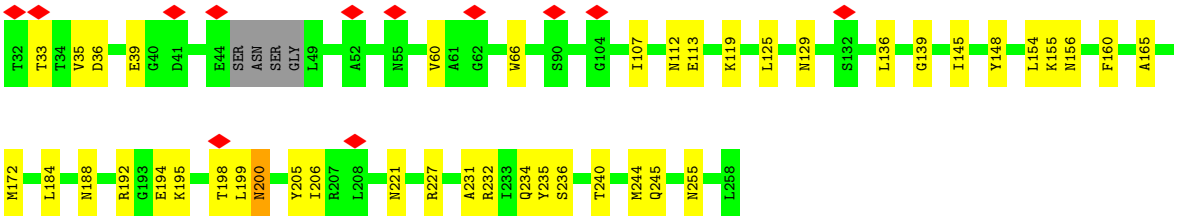
• Molecule 4: Flagellar L-ring protein

Chain Ca:



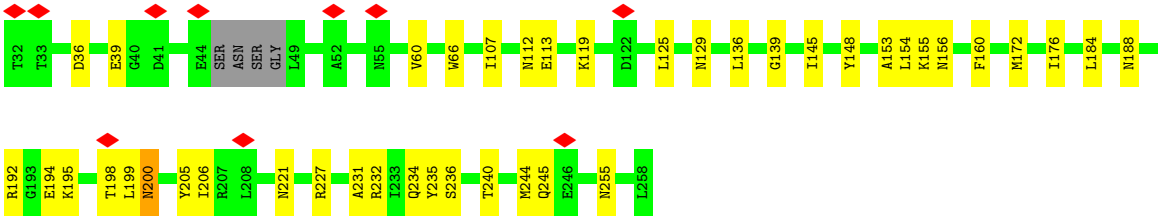
• Molecule 4: Flagellar L-ring protein

Chain Cb:



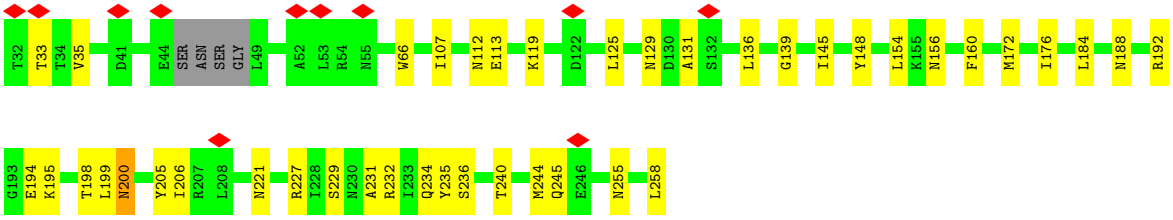
• Molecule 4: Flagellar L-ring protein

Chain Cc:



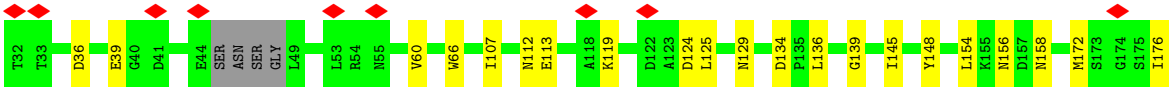
• Molecule 4: Flagellar L-ring protein

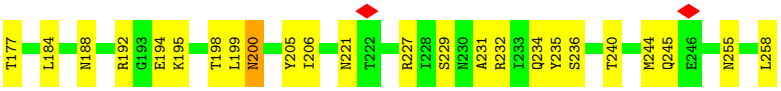
Chain Cd:



• Molecule 4: Flagellar L-ring protein

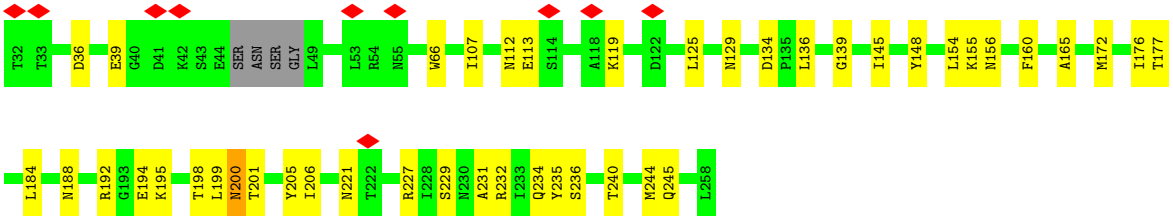
Chain Ce:





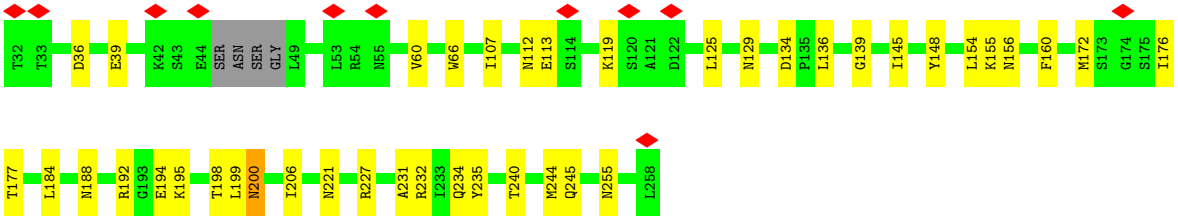
• Molecule 4: Flagellar L-ring protein

Chain Cf:



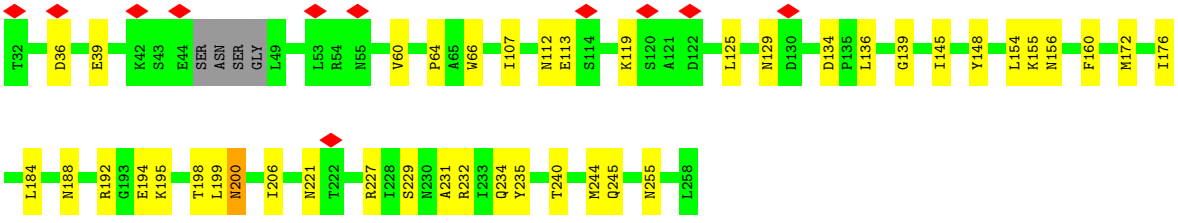
• Molecule 4: Flagellar L-ring protein

Chain Cg:



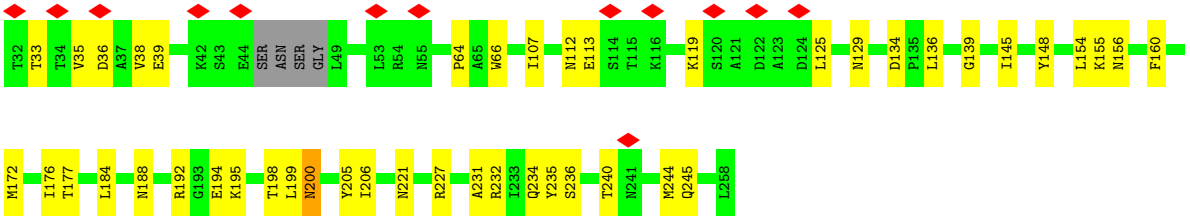
• Molecule 4: Flagellar L-ring protein

Chain Ch:



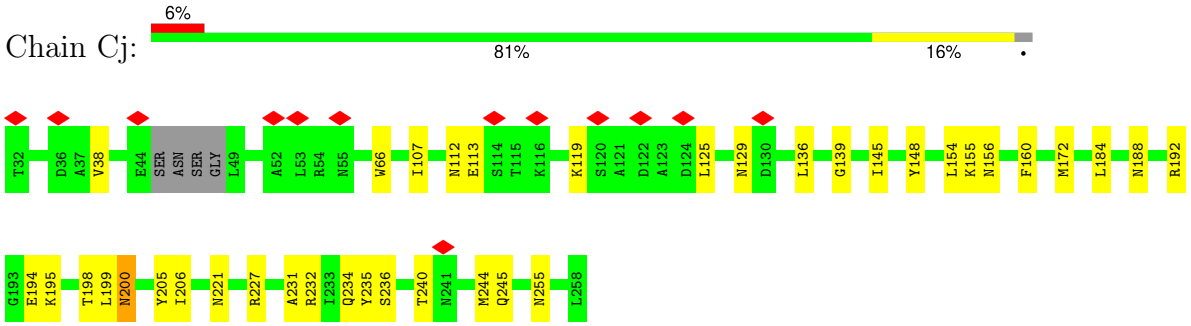
• Molecule 4: Flagellar L-ring protein

Chain Ci:



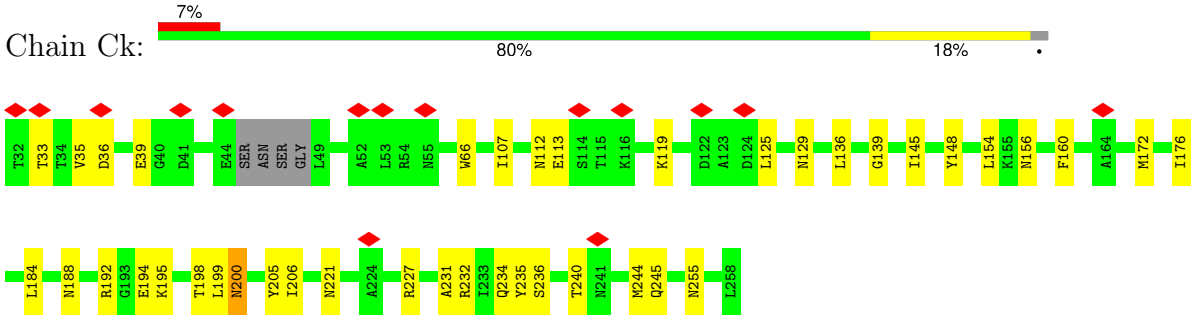
• Molecule 4: Flagellar L-ring protein

Chain Cj:



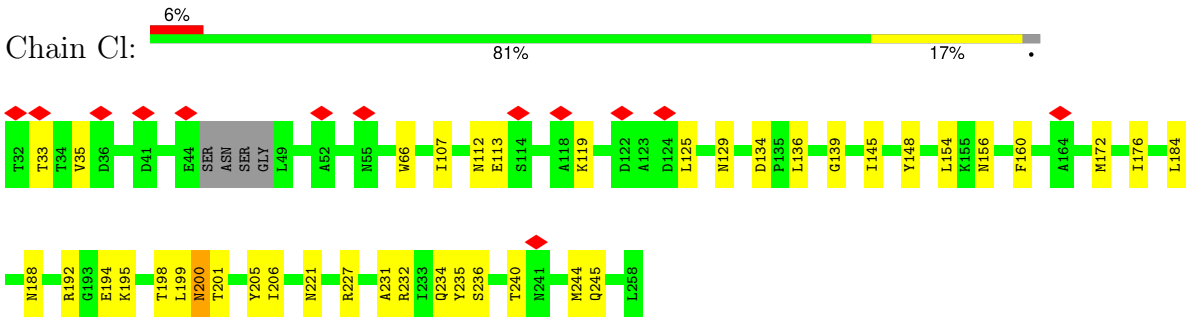
• Molecule 4: Flagellar L-ring protein

Chain Ck:



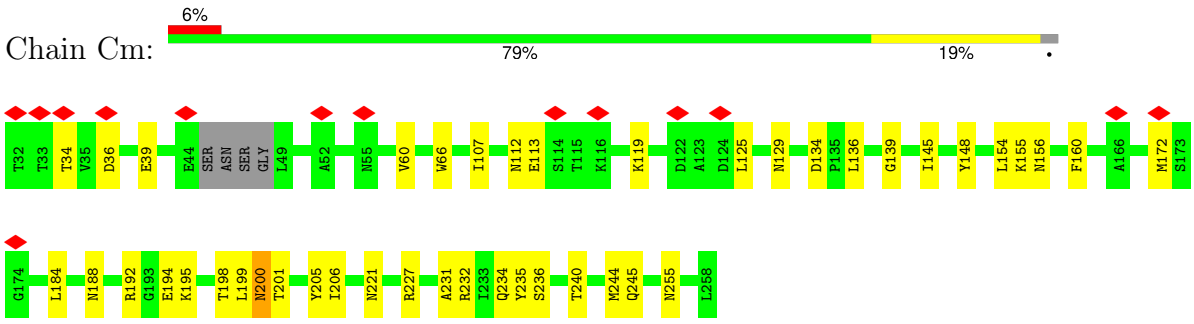
• Molecule 4: Flagellar L-ring protein

Chain Cl:



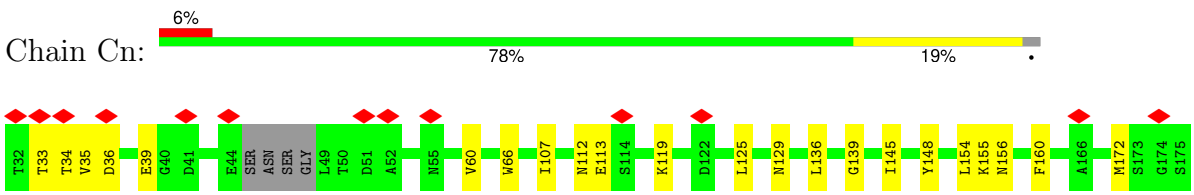
• Molecule 4: Flagellar L-ring protein

Chain Cm:



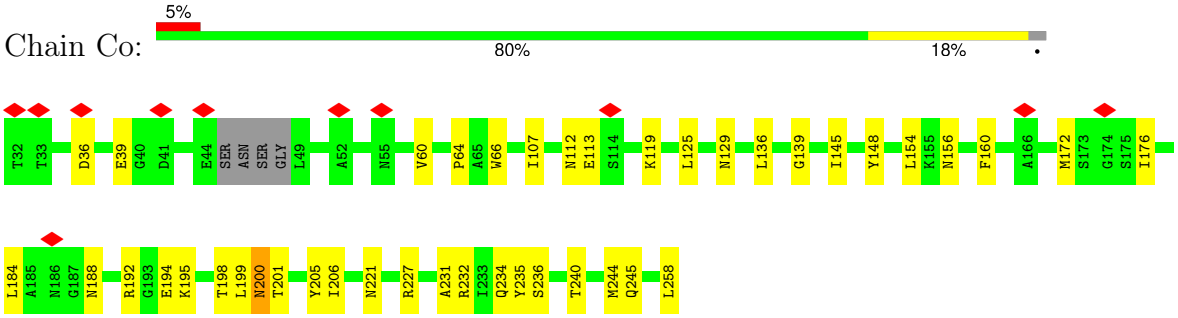
• Molecule 4: Flagellar L-ring protein

Chain Cn:



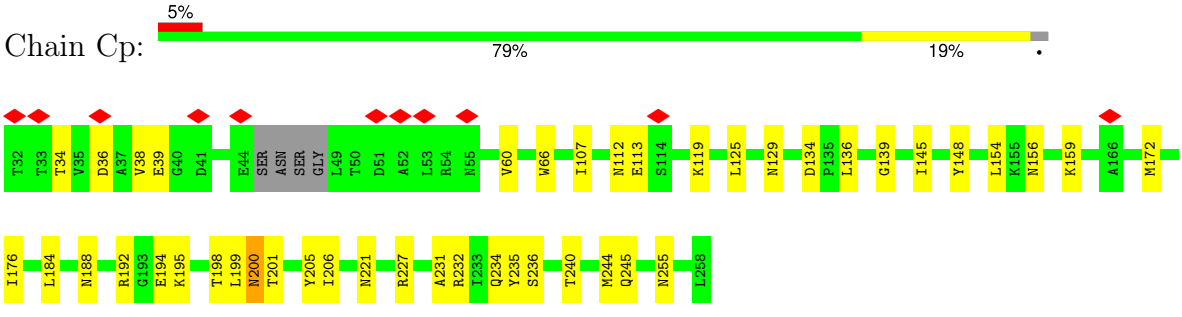
• Molecule 4: Flagellar L-ring protein

Chain Co:



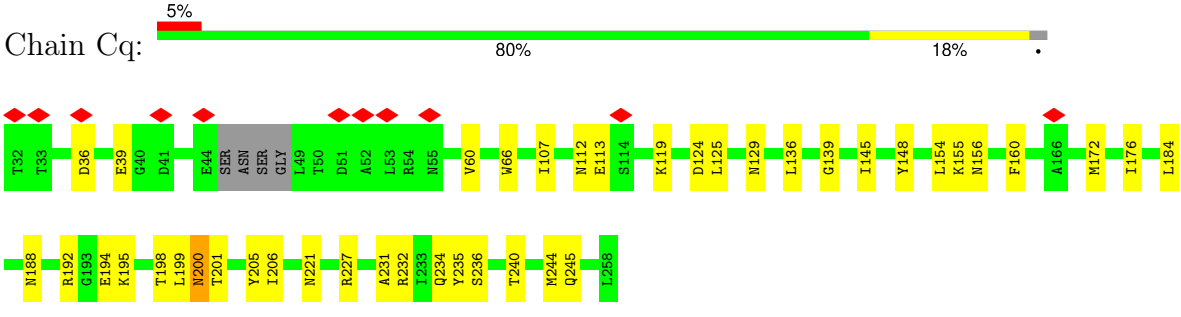
• Molecule 4: Flagellar L-ring protein

Chain Cp:



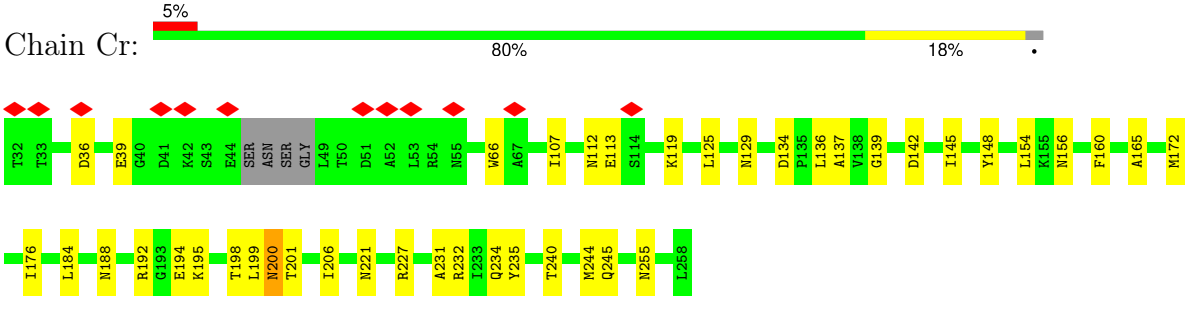
• Molecule 4: Flagellar L-ring protein

Chain Cq:



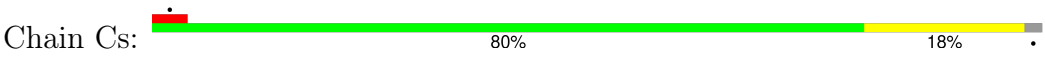
• Molecule 4: Flagellar L-ring protein

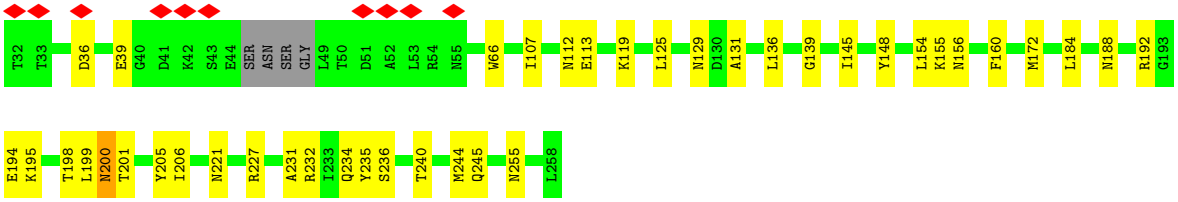
Chain Cr:



• Molecule 4: Flagellar L-ring protein

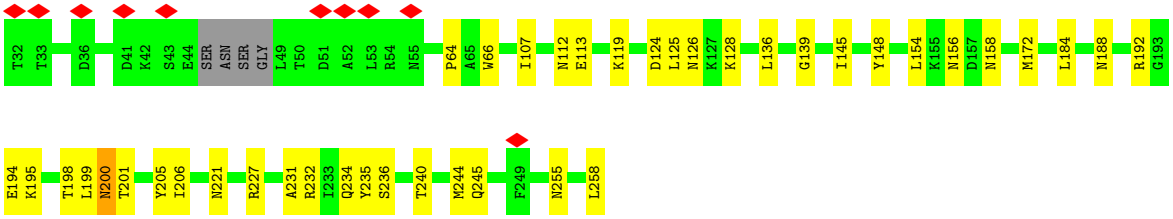
Chain Cs:





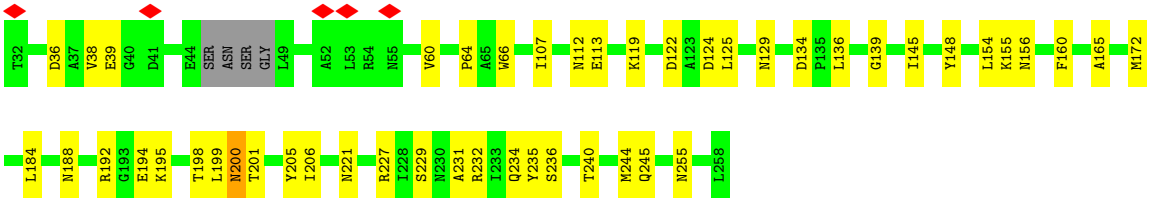
• Molecule 4: Flagellar L-ring protein

Chain Ct:



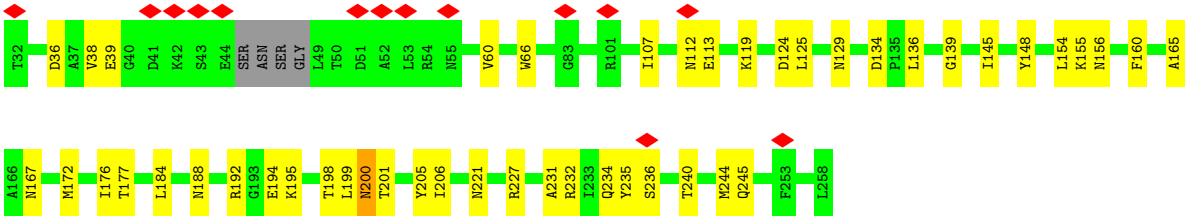
• Molecule 4: Flagellar L-ring protein

Chain Cu:



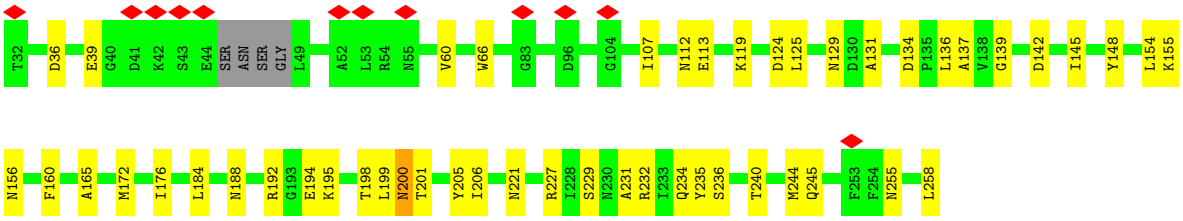
• Molecule 4: Flagellar L-ring protein

Chain Cv:



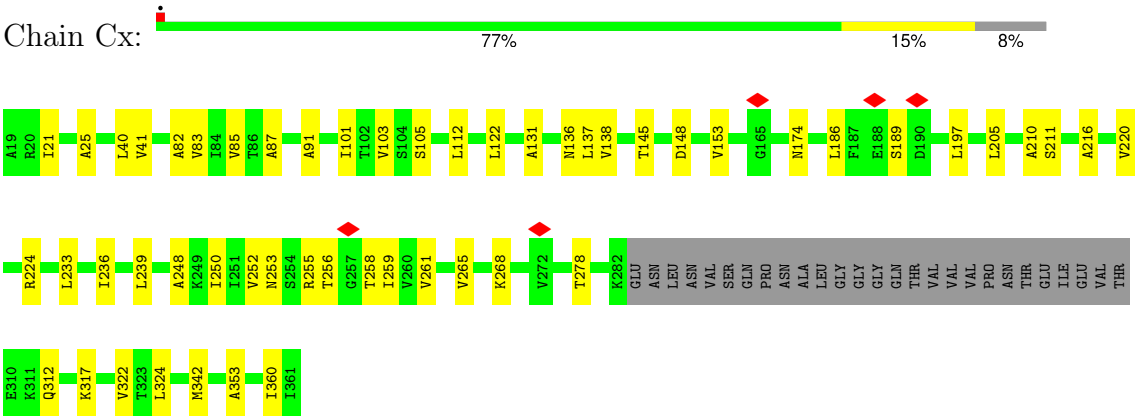
• Molecule 4: Flagellar L-ring protein

Chain Cw:



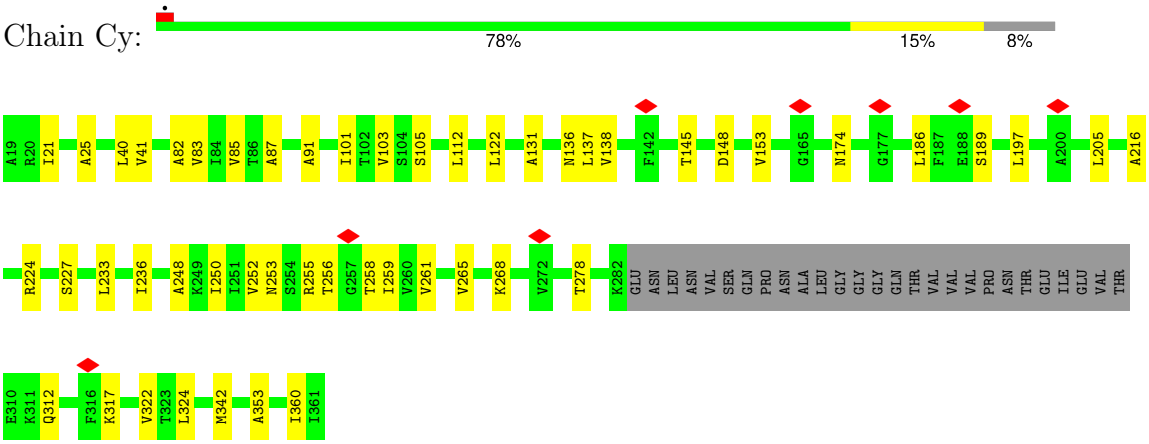
• Molecule 5: Flagellar P-ring protein

Chain Cx:



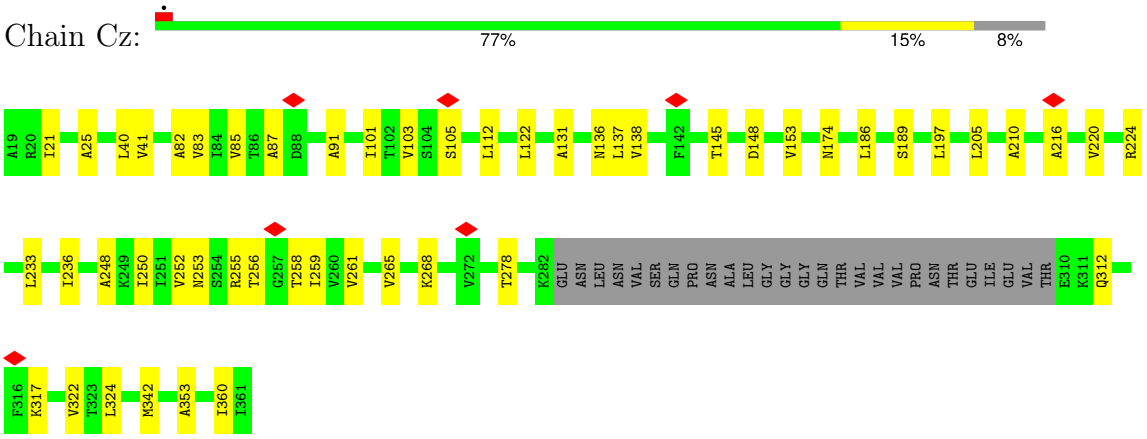
• Molecule 5: Flagellar P-ring protein

Chain Cy:



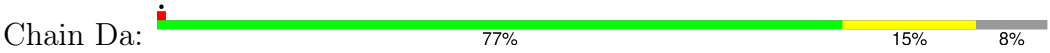
• Molecule 5: Flagellar P-ring protein

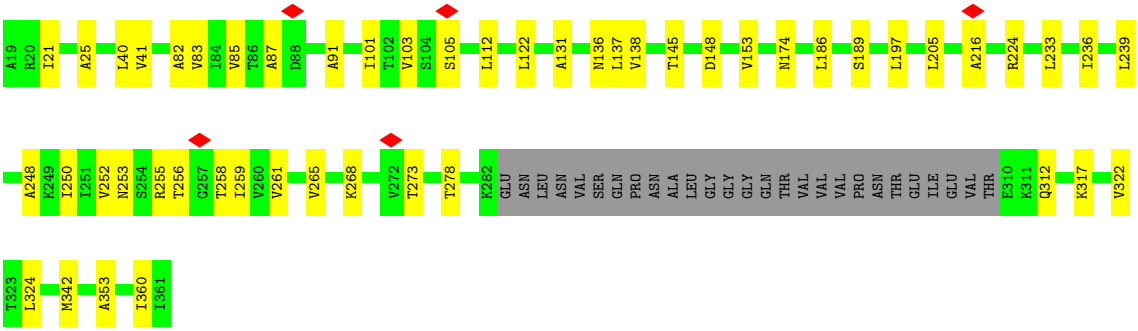
Chain Cz:



• Molecule 5: Flagellar P-ring protein

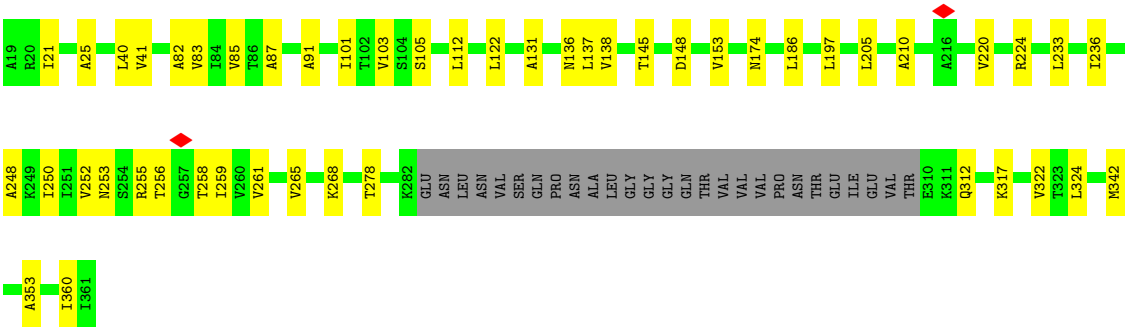
Chain Da:





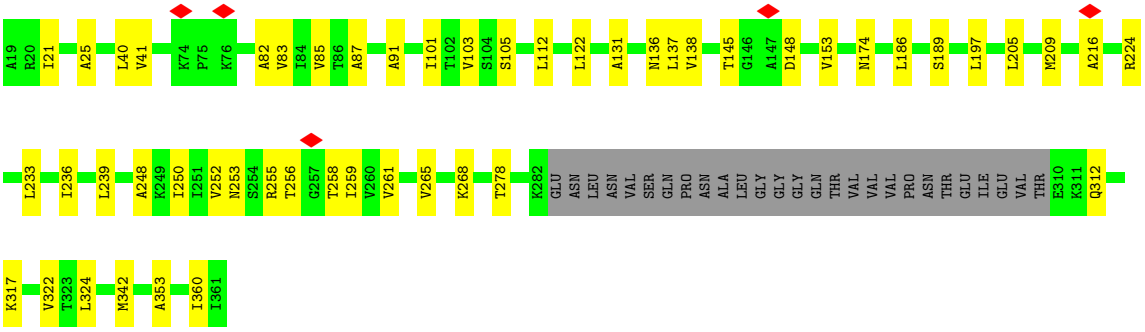
• Molecule 5: Flagellar P-ring protein

Chain Db:



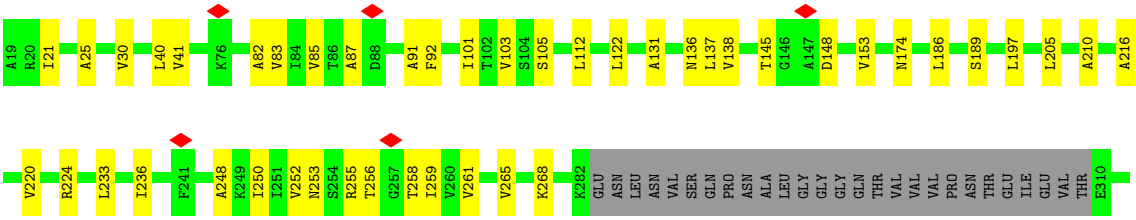
• Molecule 5: Flagellar P-ring protein

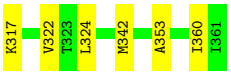
Chain Dc:



• Molecule 5: Flagellar P-ring protein

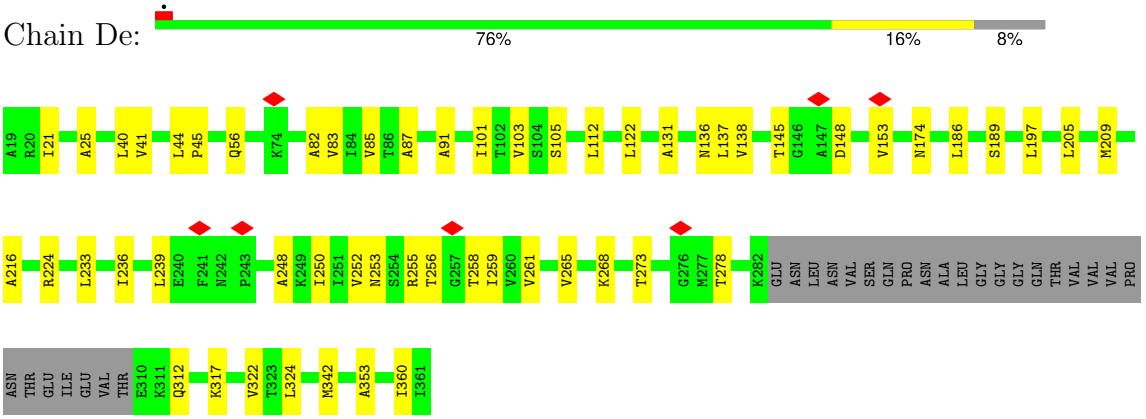
Chain Dd:





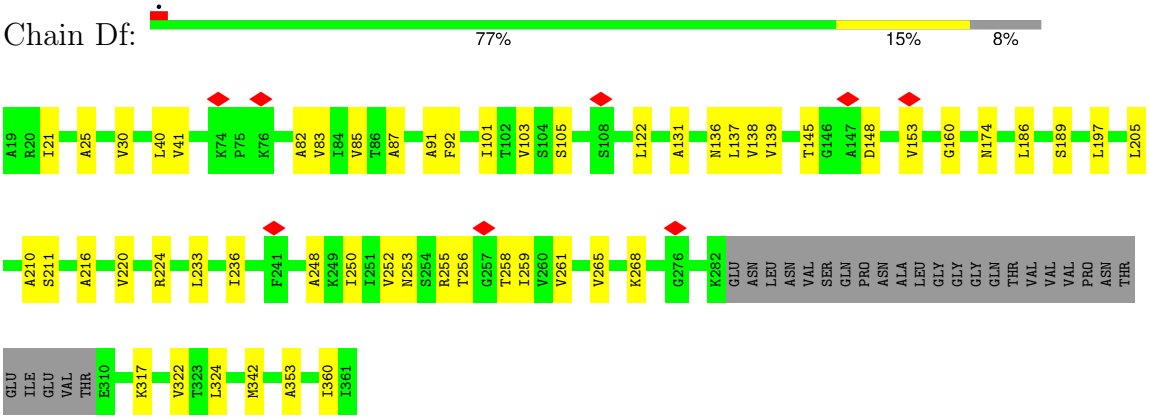
• Molecule 5: Flagellar P-ring protein

Chain De:



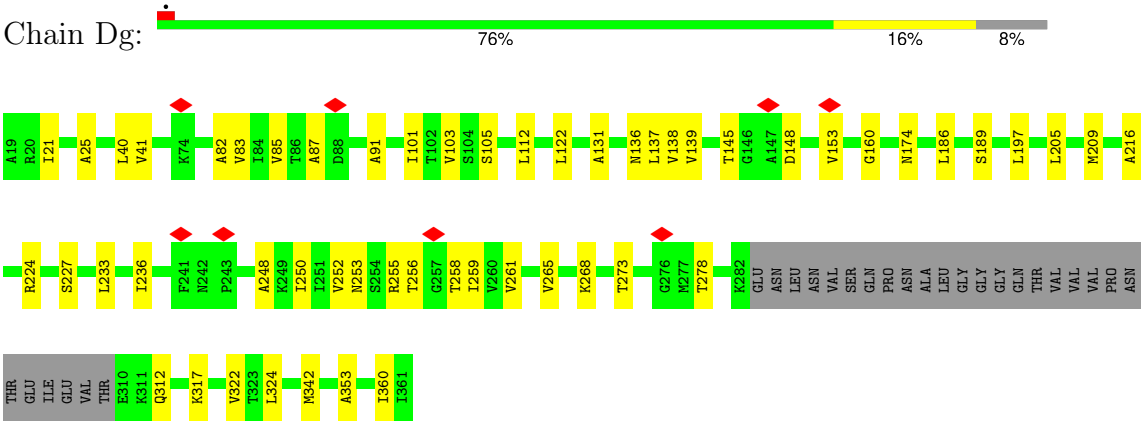
• Molecule 5: Flagellar P-ring protein

Chain Df:



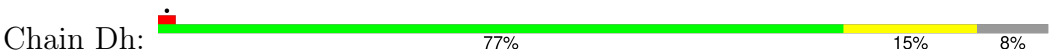
• Molecule 5: Flagellar P-ring protein

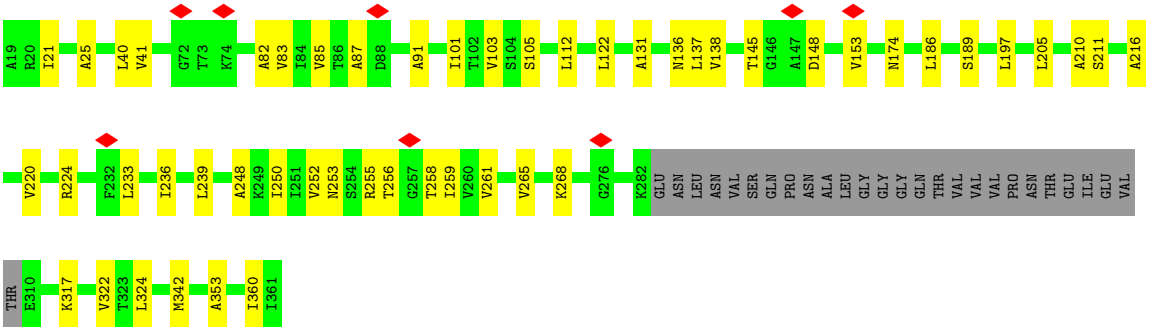
Chain Dg:



• Molecule 5: Flagellar P-ring protein

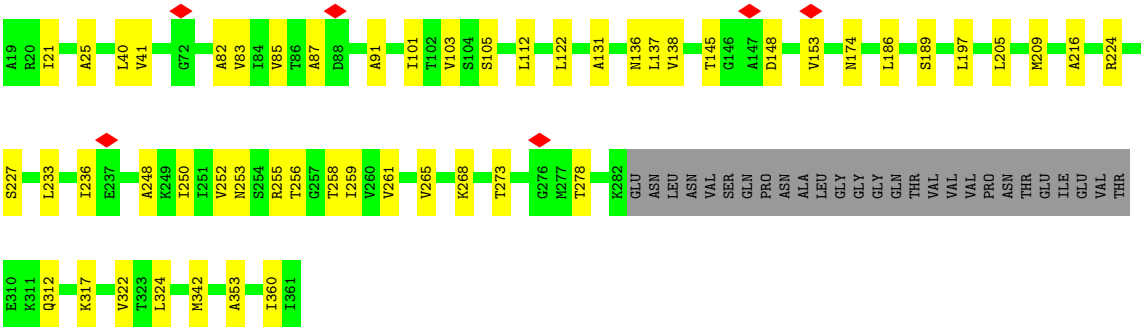
Chain Dh:





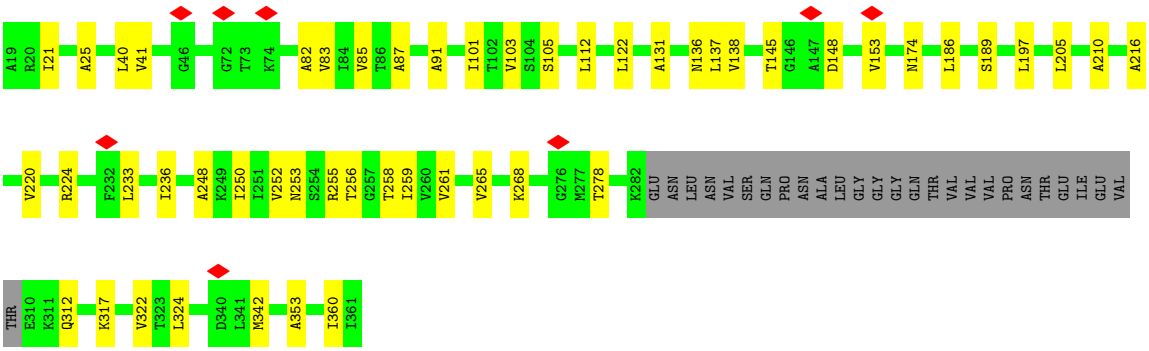
• Molecule 5: Flagellar P-ring protein

Chain Di:



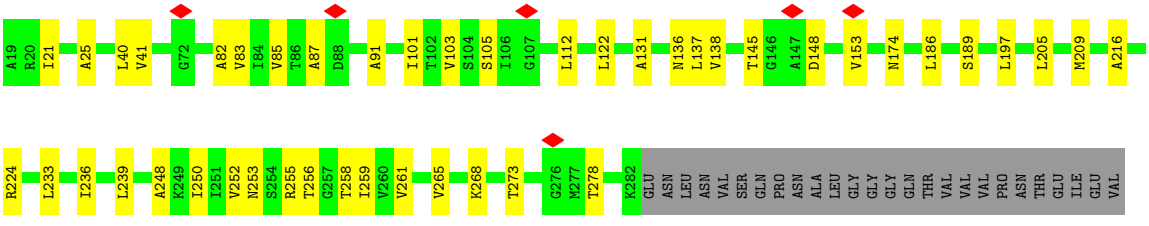
• Molecule 5: Flagellar P-ring protein

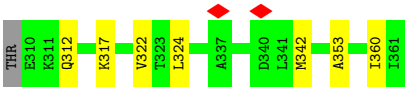
Chain Dj:



• Molecule 5: Flagellar P-ring protein

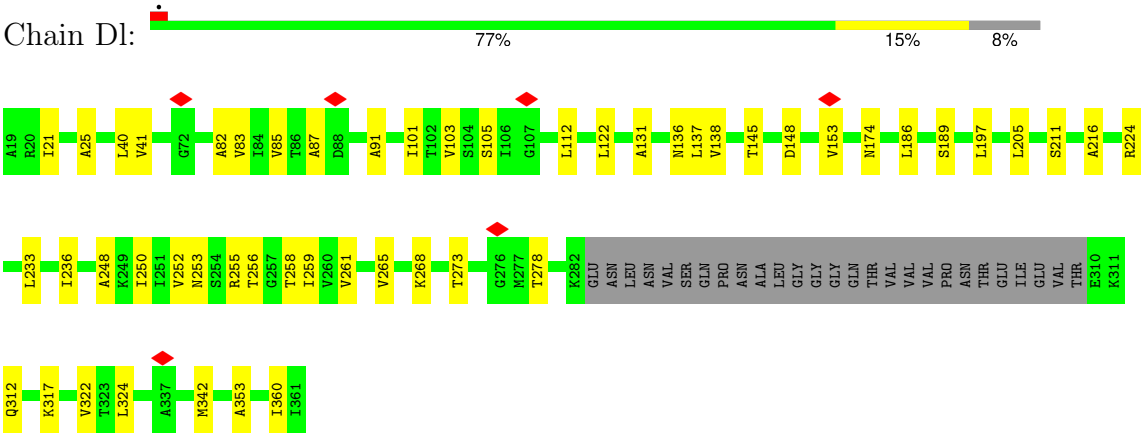
Chain Dk:





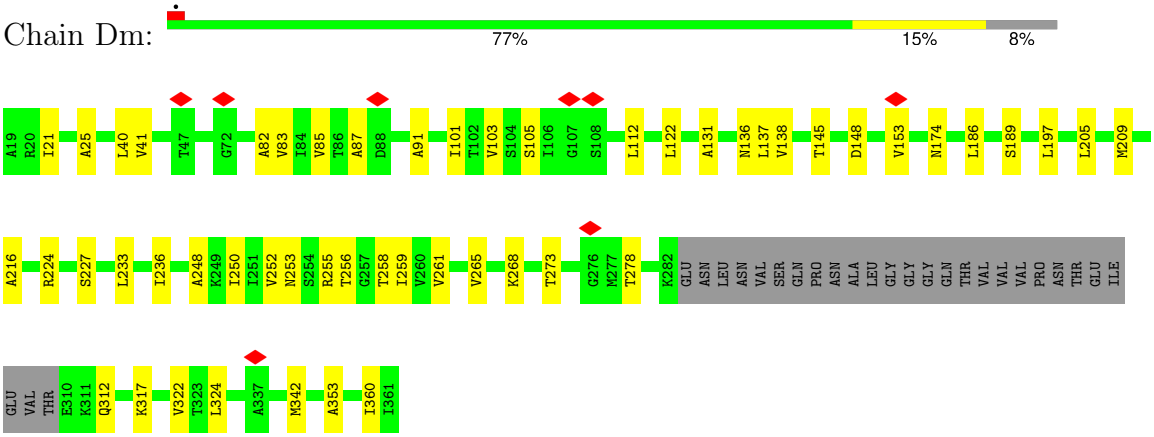
• Molecule 5: Flagellar P-ring protein

Chain Dl:



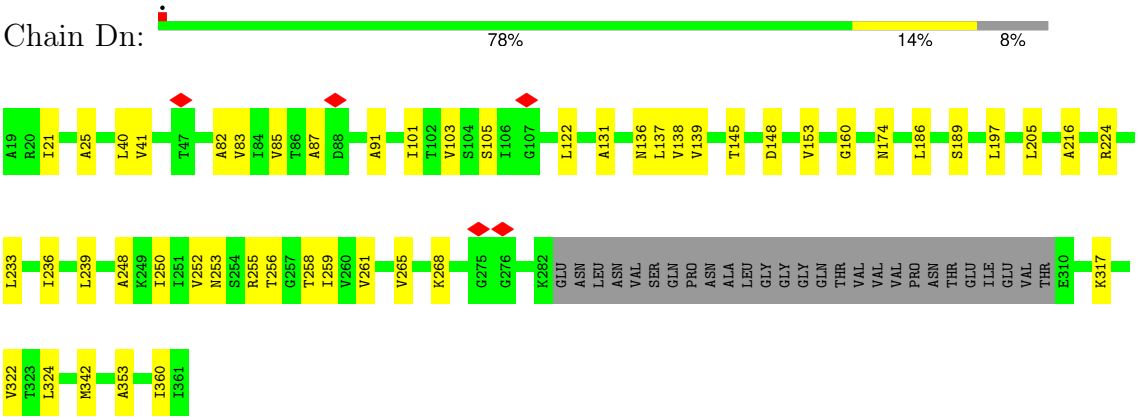
• Molecule 5: Flagellar P-ring protein

Chain Dm:



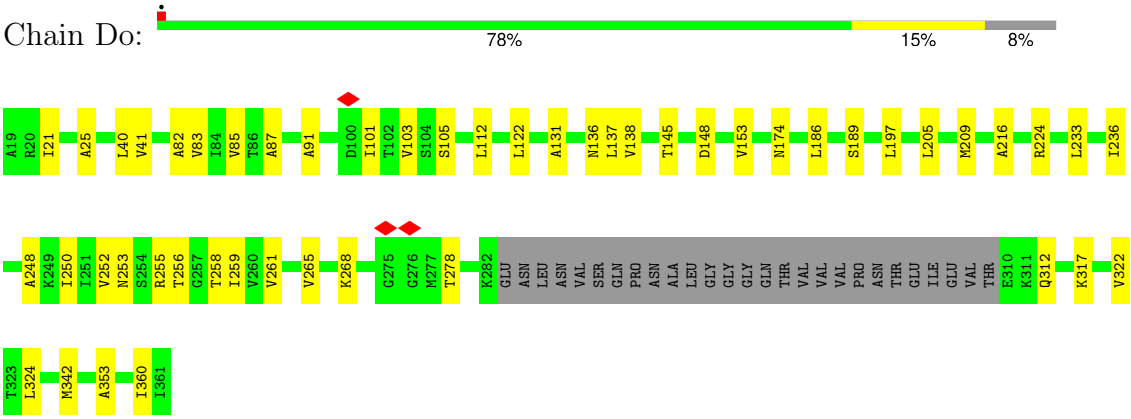
• Molecule 5: Flagellar P-ring protein

Chain Dn:



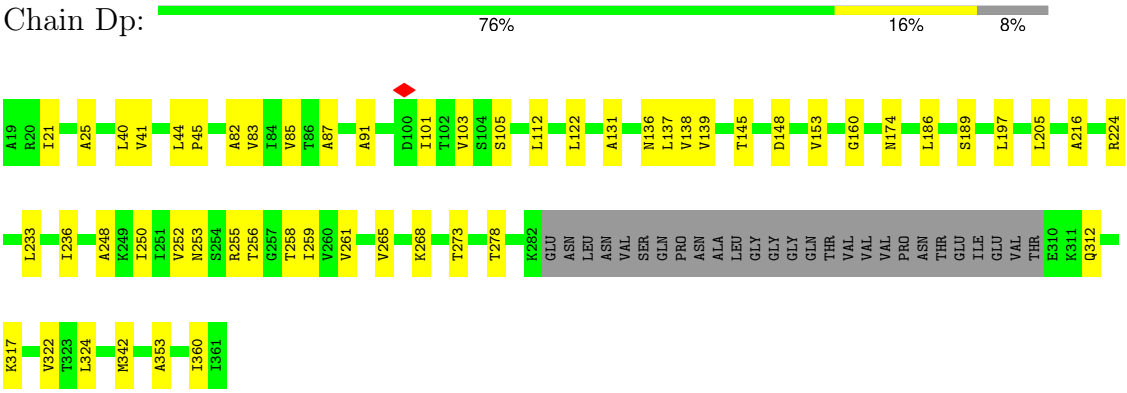
• Molecule 5: Flagellar P-ring protein

Chain Do:



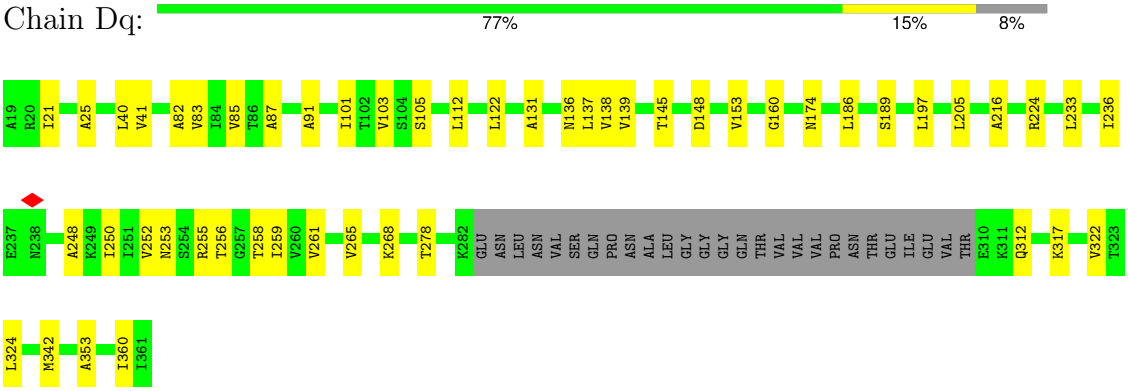
• Molecule 5: Flagellar P-ring protein

Chain Dp:



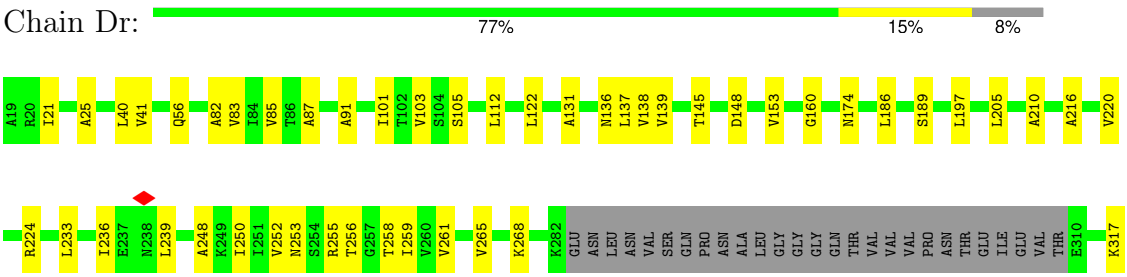
• Molecule 5: Flagellar P-ring protein

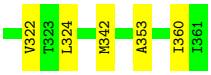
Chain Dq:



• Molecule 5: Flagellar P-ring protein

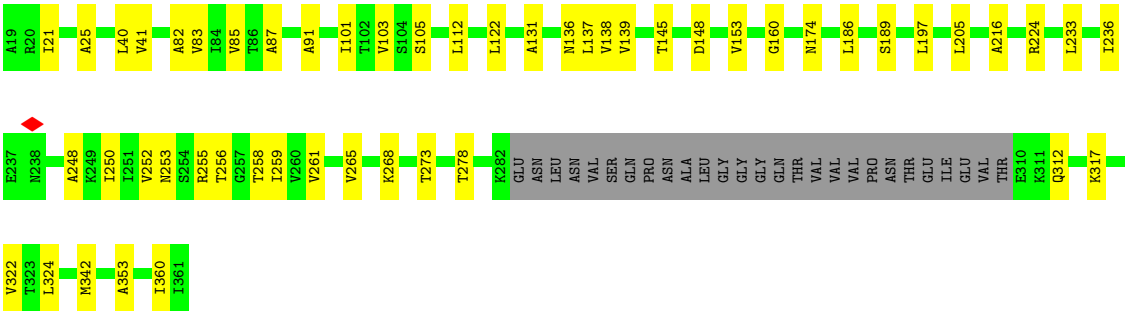
Chain Dr:





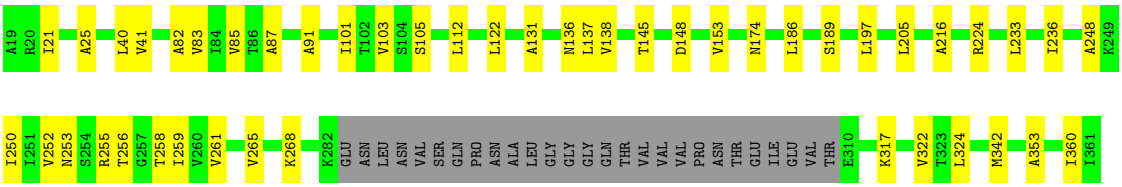
• Molecule 5: Flagellar P-ring protein

Chain Ds:



• Molecule 5: Flagellar P-ring protein

Chain Dt:

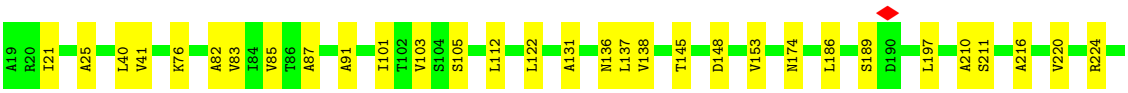


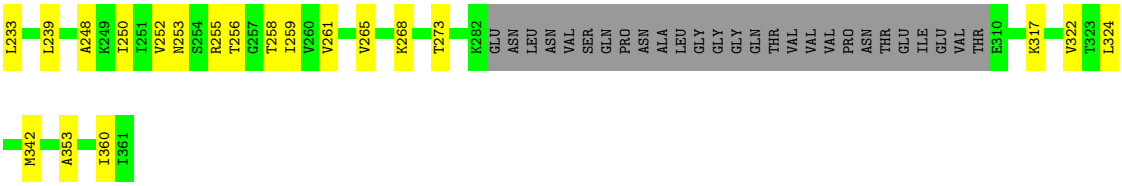
• Molecule 5: Flagellar P-ring protein

Chain Du:

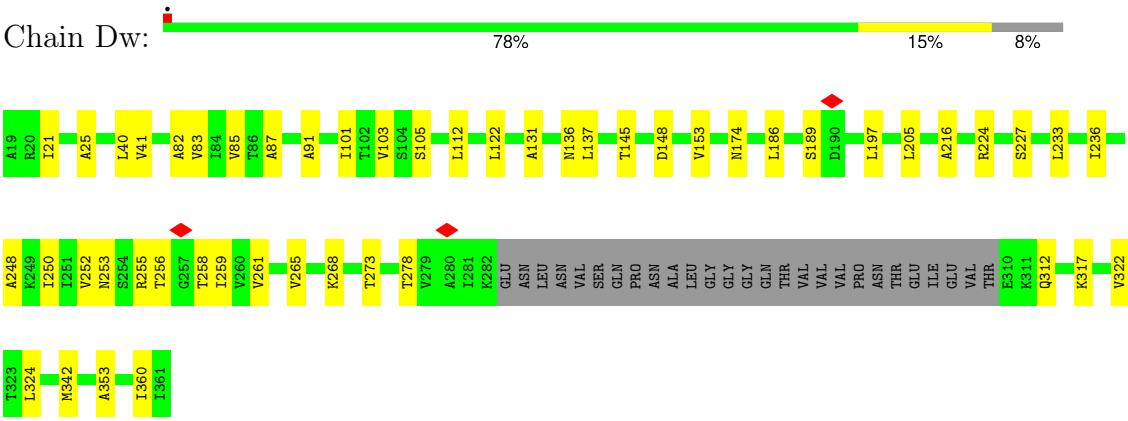
• Molecule 5: Flagellar P-ring protein

Chain Dv:

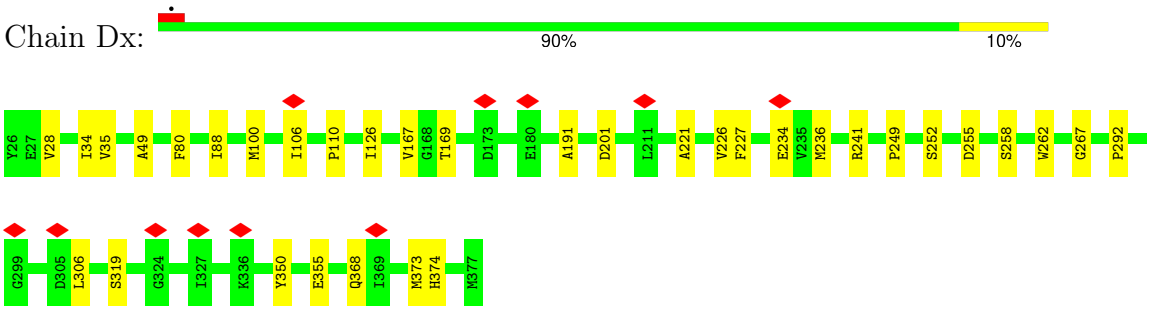




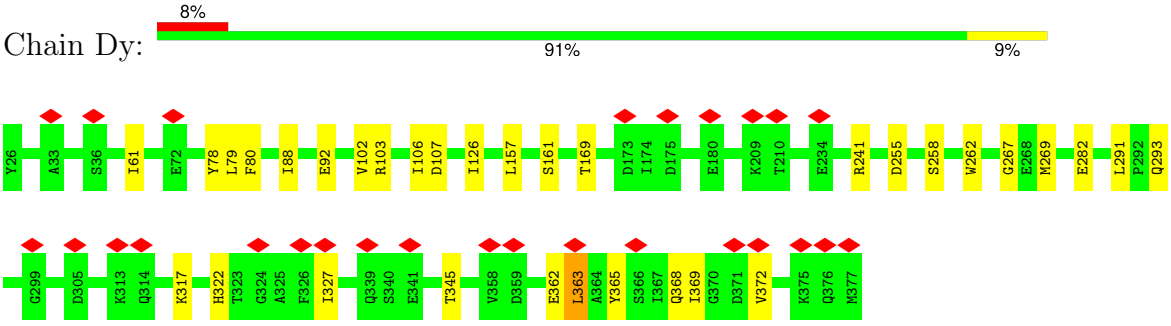
• Molecule 5: Flagellar P-ring protein



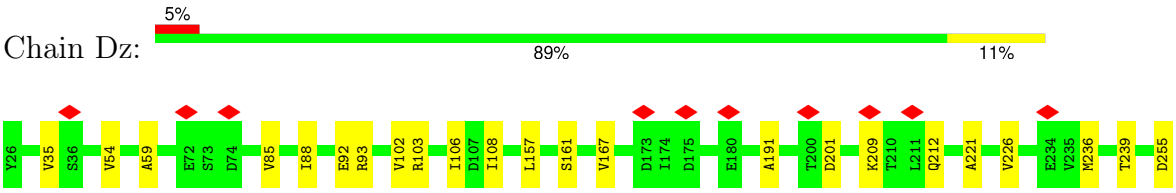
• Molecule 6: Flagellar protein FlgT

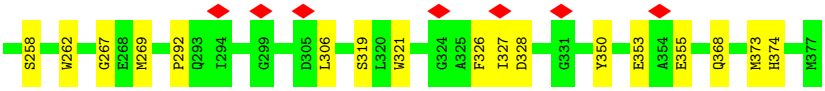


• Molecule 6: Flagellar protein FlgT



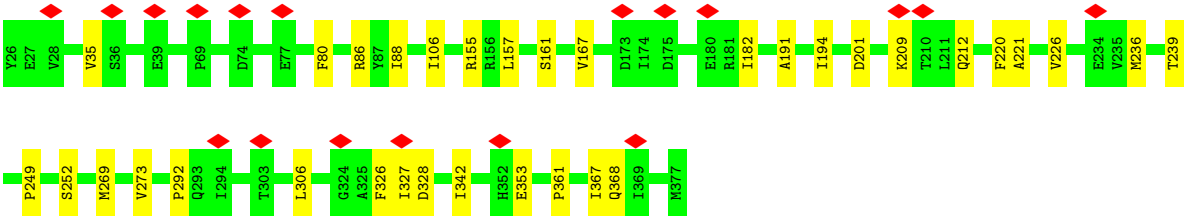
• Molecule 6: Flagellar protein FlgT





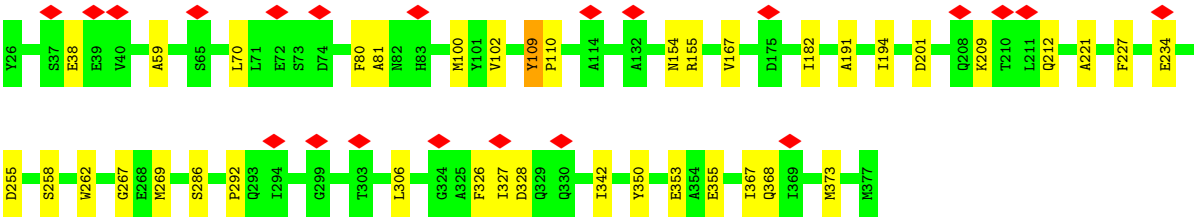
• Molecule 6: Flagellar protein FlgT

Chain Ea:



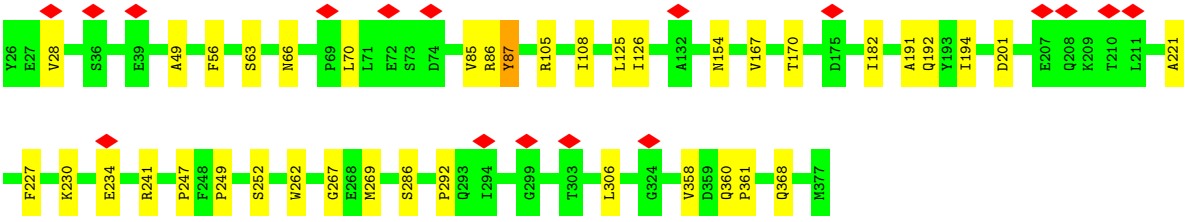
• Molecule 6: Flagellar protein FlgT

Chain Eb:



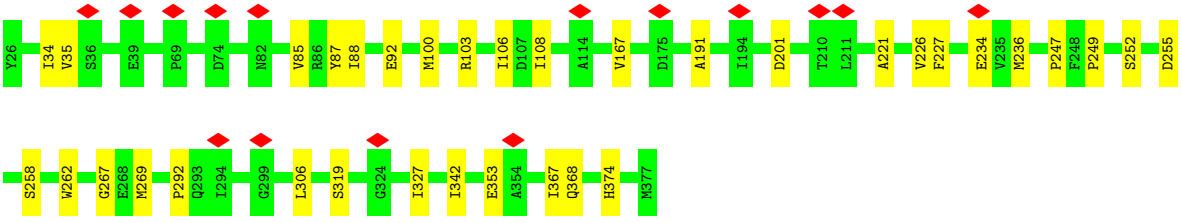
• Molecule 6: Flagellar protein FlgT

Chain Ec:



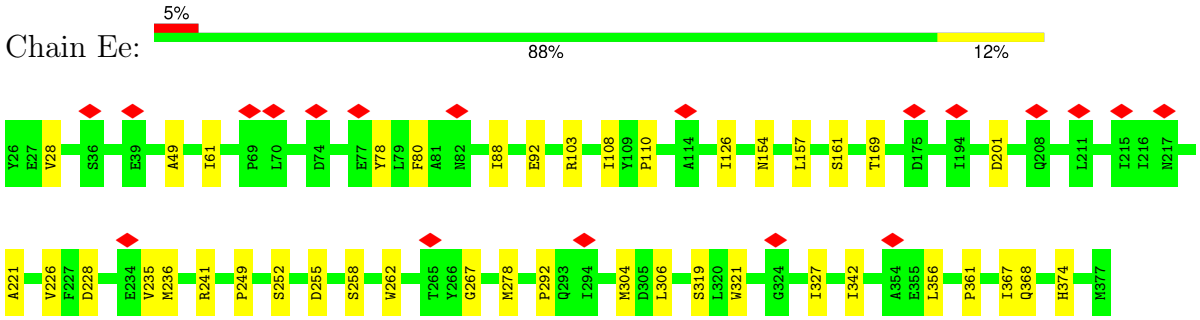
• Molecule 6: Flagellar protein FlgT

Chain Ed:



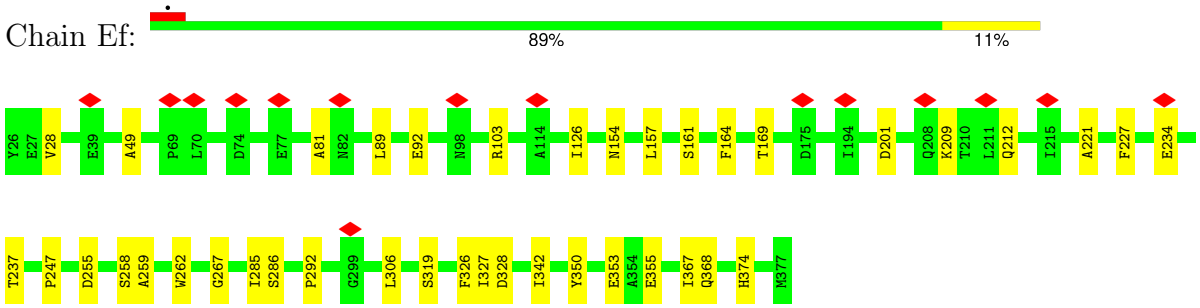
• Molecule 6: Flagellar protein FlgT

Chain Ee:



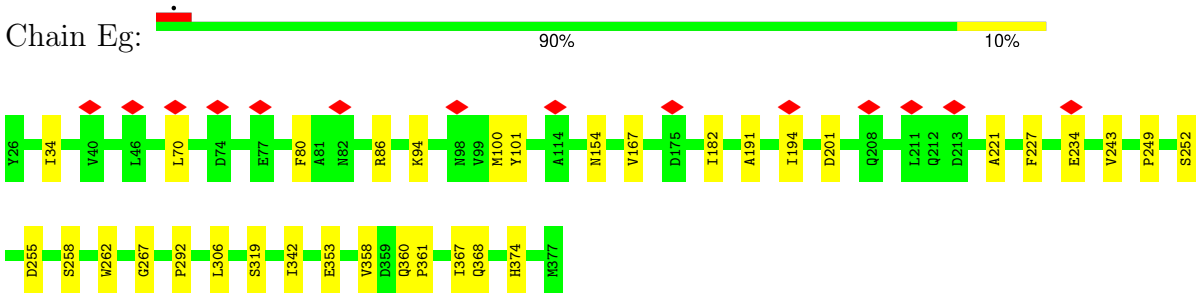
• Molecule 6: Flagellar protein FlgT

Chain Ef:



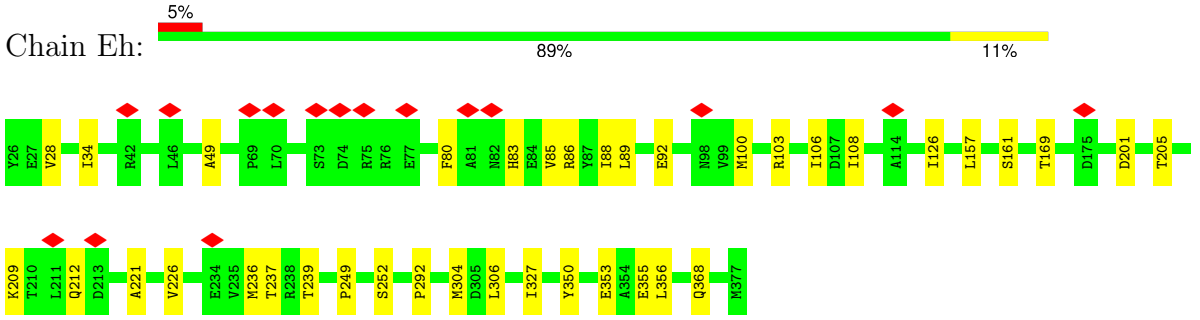
• Molecule 6: Flagellar protein FlgT

Chain Eg:



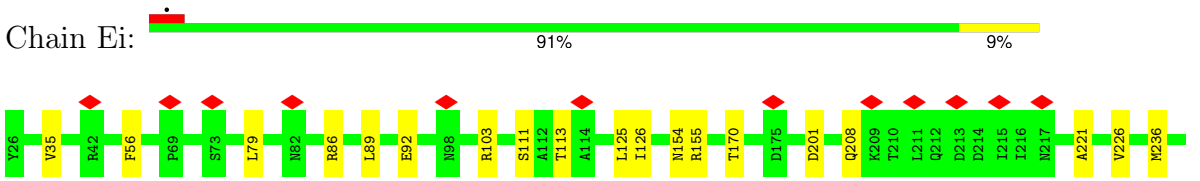
• Molecule 6: Flagellar protein FlgT

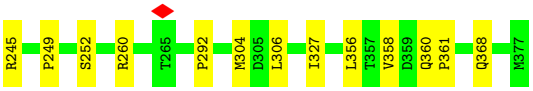
Chain Eh:



• Molecule 6: Flagellar protein FlgT

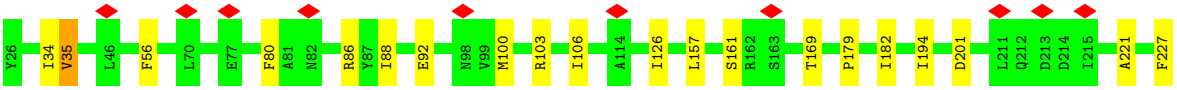
Chain Ei:





• Molecule 6: Flagellar protein FlgT

Chain Ej:

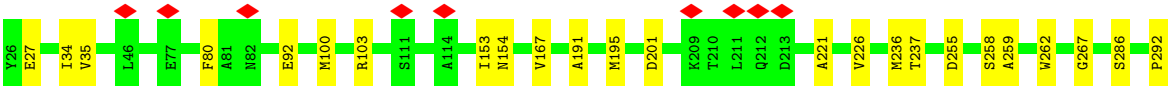


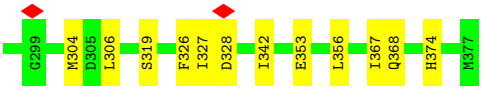
• Molecule 6: Flagellar protein FlgT

Chain Ek:

• Molecule 6: Flagellar protein FlgT

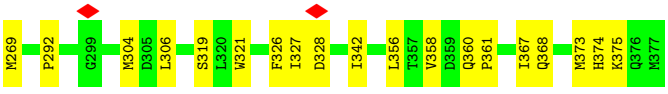
Chain El:





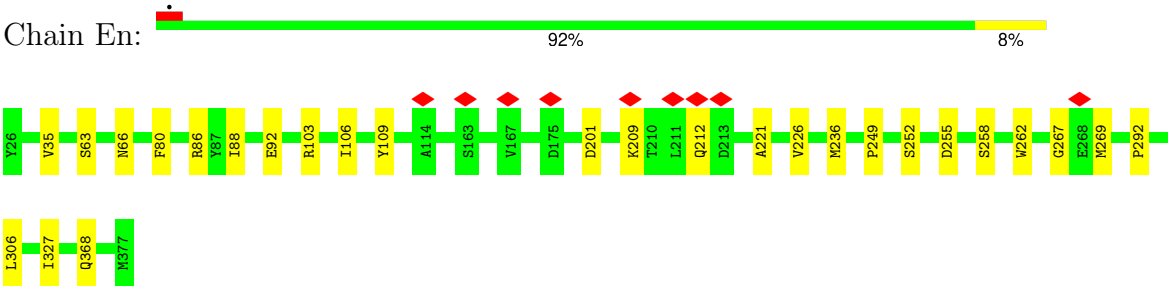
• Molecule 6: Flagellar protein FlgT

Chain Em:



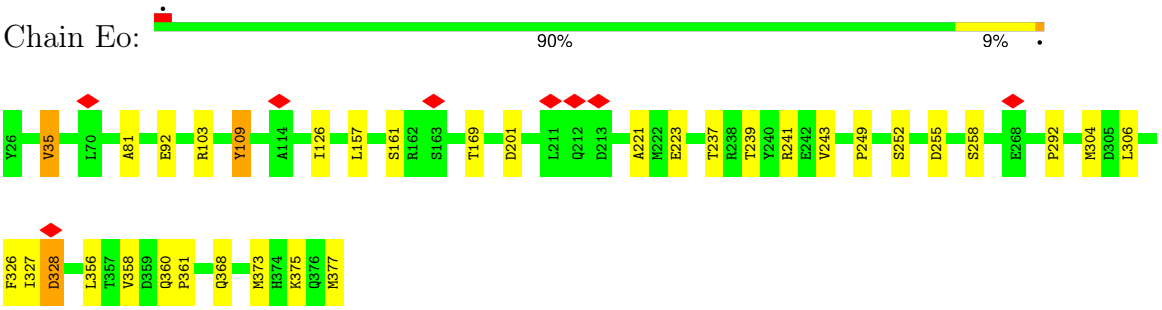
• Molecule 6: Flagellar protein FlgT

Chain En:



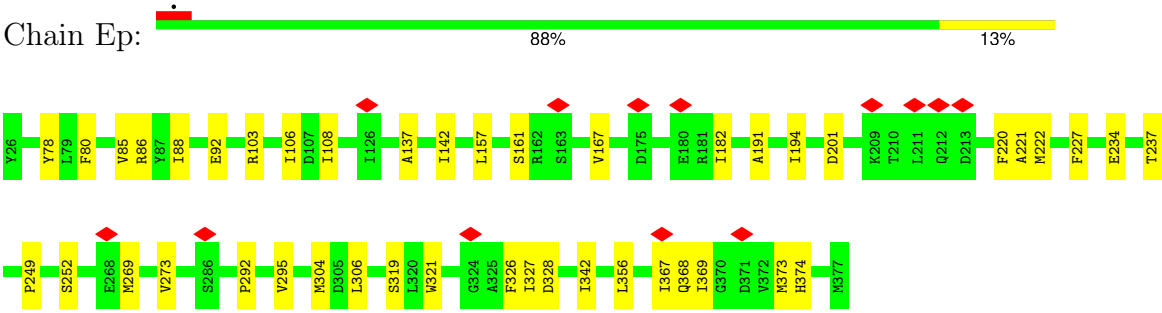
• Molecule 6: Flagellar protein FlgT

Chain Eo:



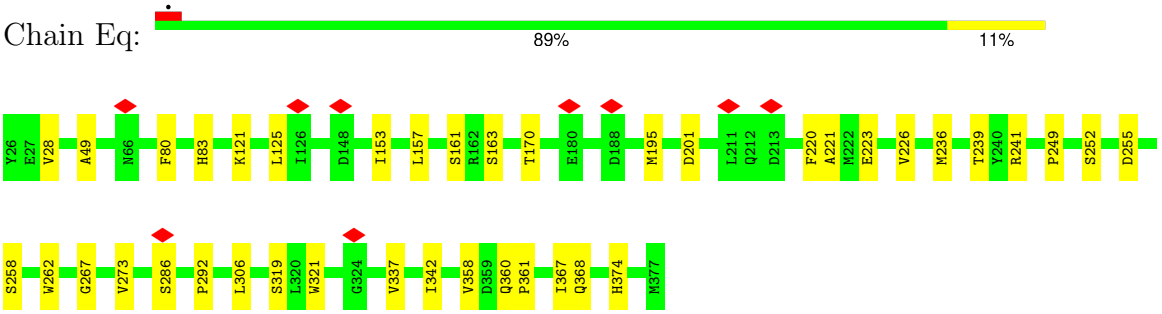
• Molecule 6: Flagellar protein FlgT

Chain Ep:



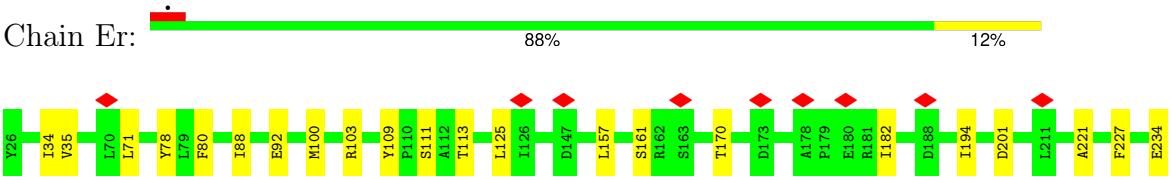
• Molecule 6: Flagellar protein FlgT

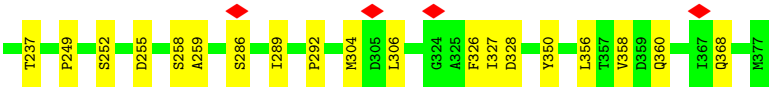
Chain Eq:



• Molecule 6: Flagellar protein FlgT

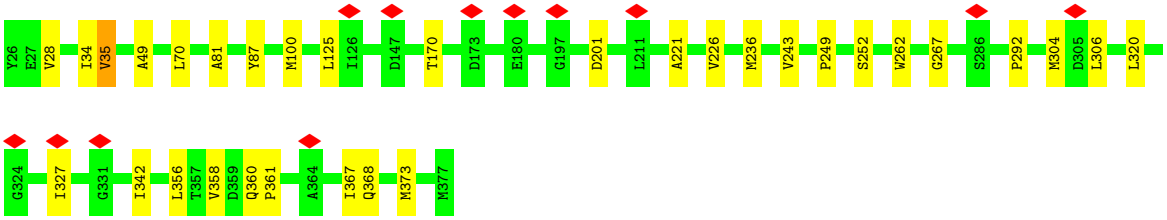
Chain Er:





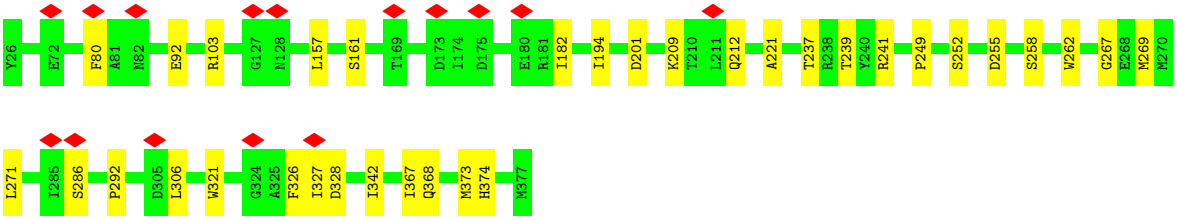
• Molecule 6: Flagellar protein FlgT

Chain Es:



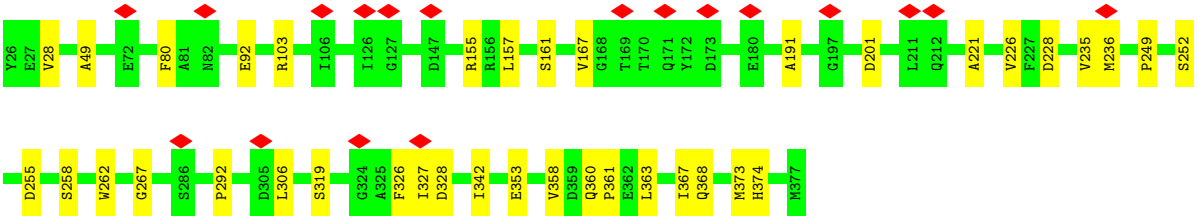
• Molecule 6: Flagellar protein FlgT

Chain Et:



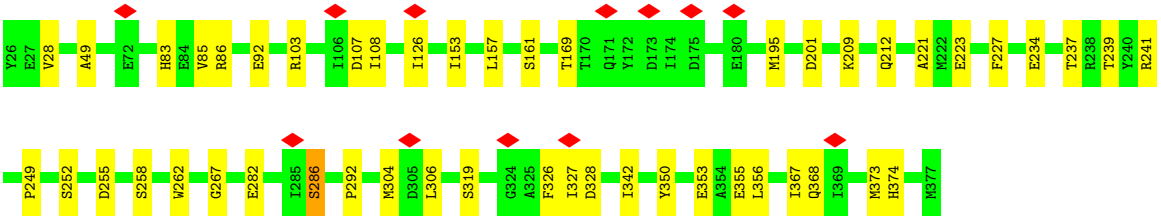
• Molecule 6: Flagellar protein FlgT

Chain Eu:



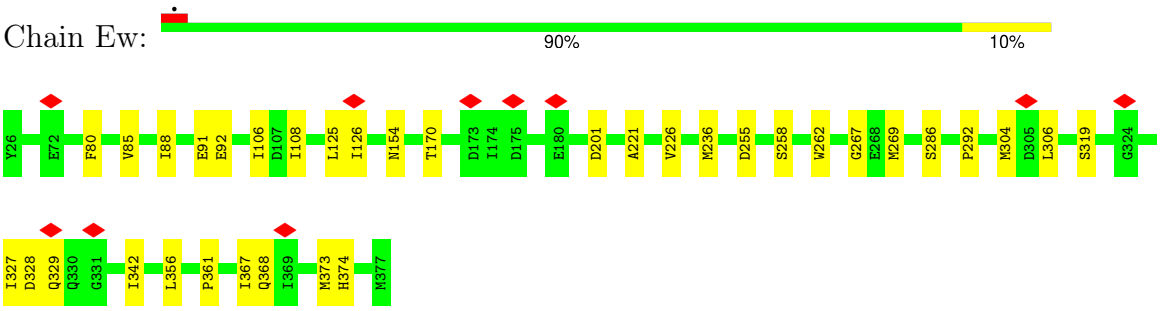
• Molecule 6: Flagellar protein FlgT

Chain Ev:



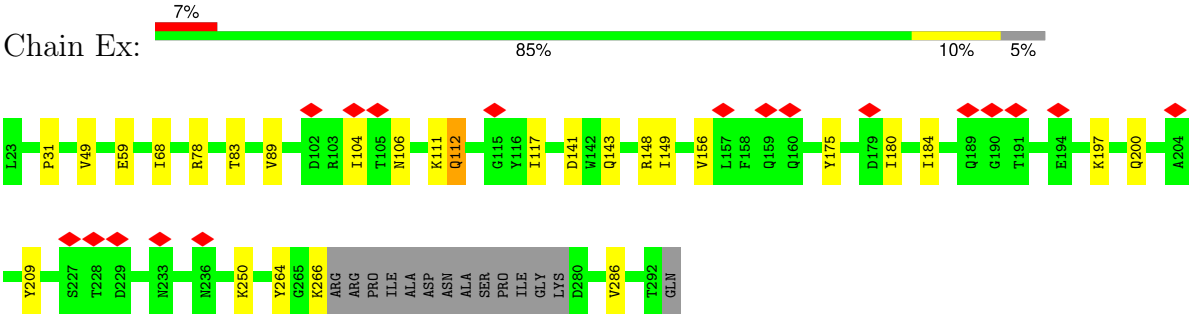
• Molecule 6: Flagellar protein FlgT

Chain Ew:



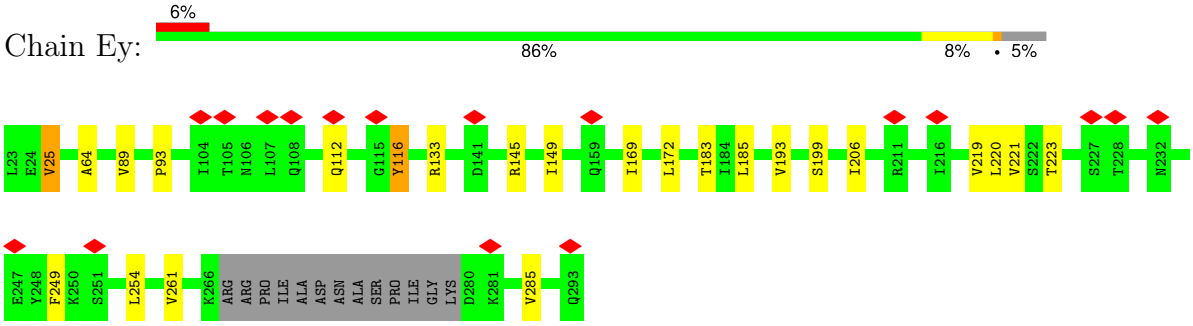
• Molecule 7: Sodium-type flagellar protein MotY

Chain Ex:



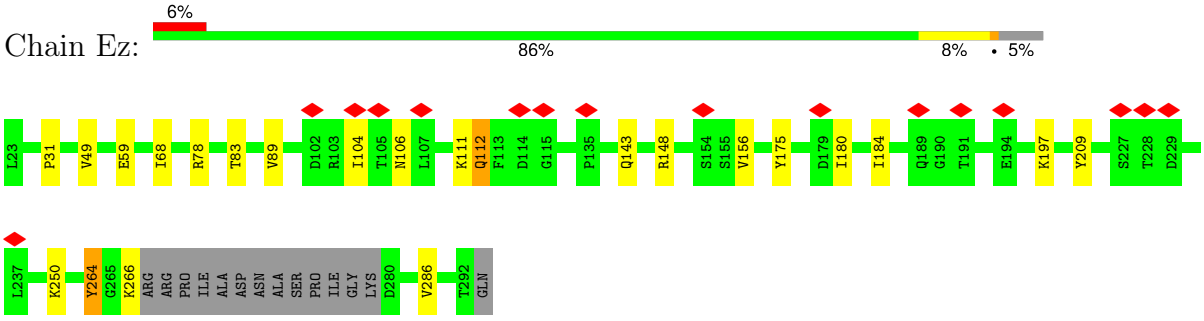
• Molecule 7: Sodium-type flagellar protein MotY

Chain Ey:



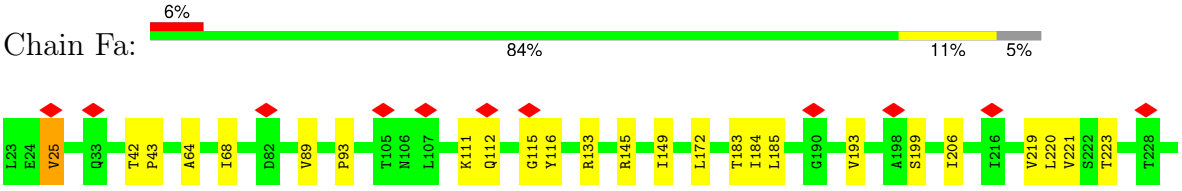
• Molecule 7: Sodium-type flagellar protein MotY

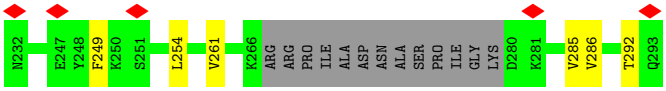
Chain Ez:



• Molecule 7: Sodium-type flagellar protein MotY

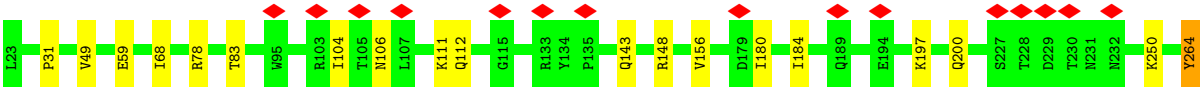
Chain Fa:

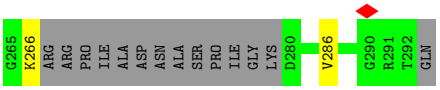




• Molecule 7: Sodium-type flagellar protein MotY

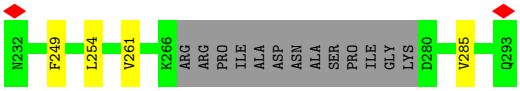
Chain Fb:





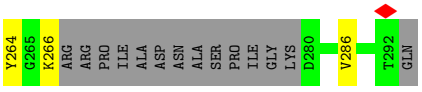
• Molecule 7: Sodium-type flagellar protein MotY

Chain Fc:



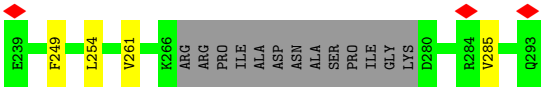
• Molecule 7: Sodium-type flagellar protein MotY

Chain Fd:



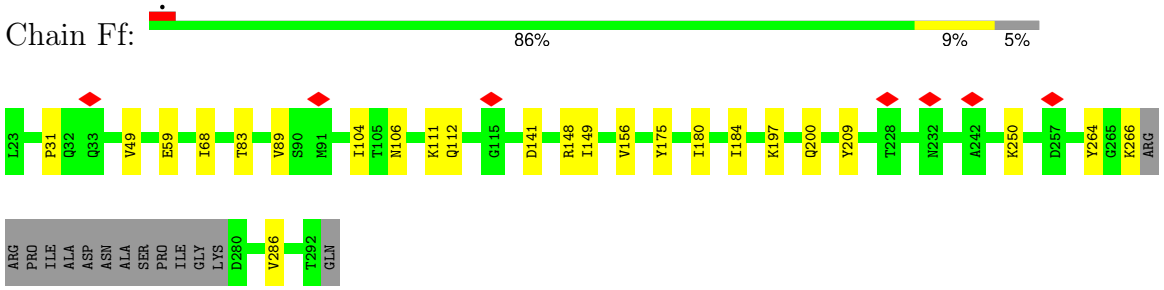
• Molecule 7: Sodium-type flagellar protein MotY

Chain Fe:



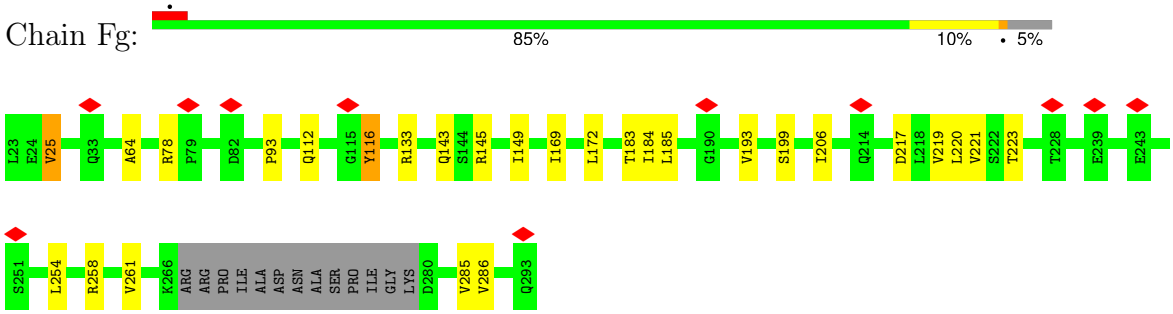
• Molecule 7: Sodium-type flagellar protein MotY

Chain Ff:



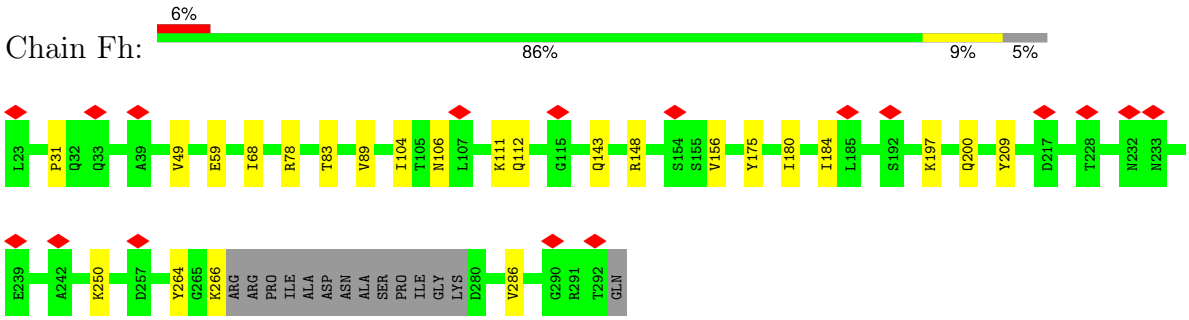
• Molecule 7: Sodium-type flagellar protein MotY

Chain Fg:



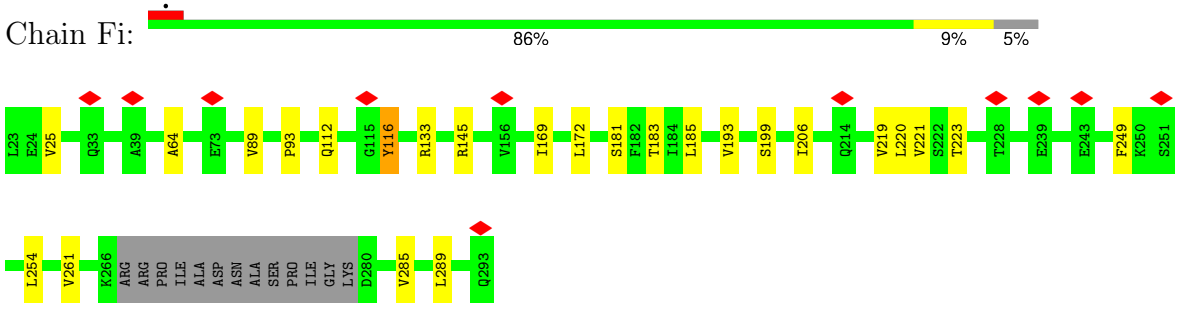
• Molecule 7: Sodium-type flagellar protein MotY

Chain Fh:



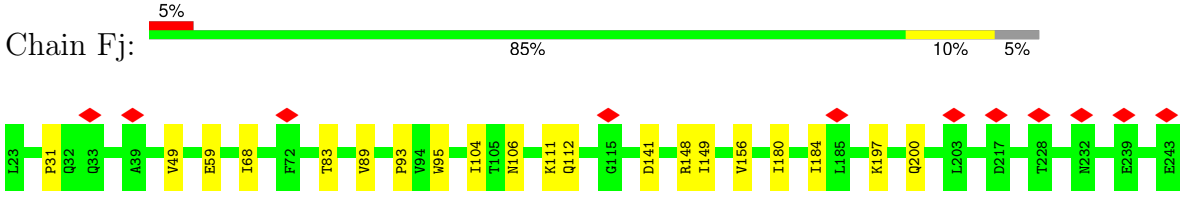
• Molecule 7: Sodium-type flagellar protein MotY

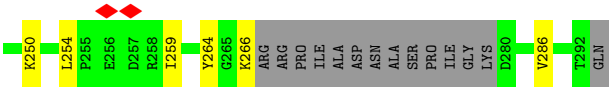
Chain Fi:



• Molecule 7: Sodium-type flagellar protein MotY

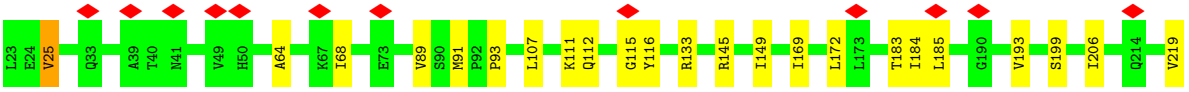
Chain Fj:

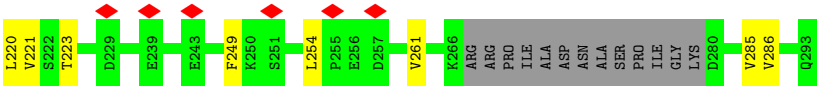




• Molecule 7: Sodium-type flagellar protein MotY

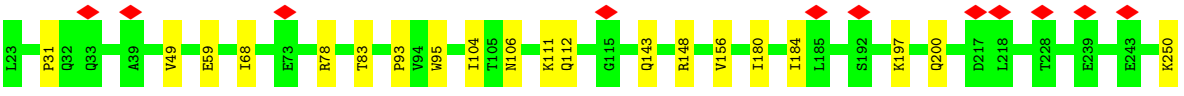
Chain Fk:

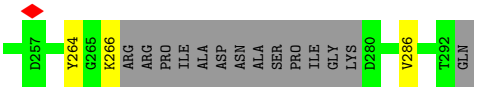




• Molecule 7: Sodium-type flagellar protein MotY

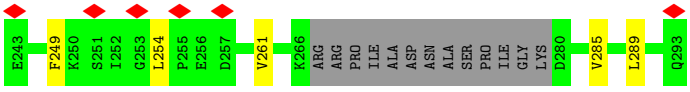
Chain Fl:





• Molecule 7: Sodium-type flagellar protein MotY

Chain Fm:

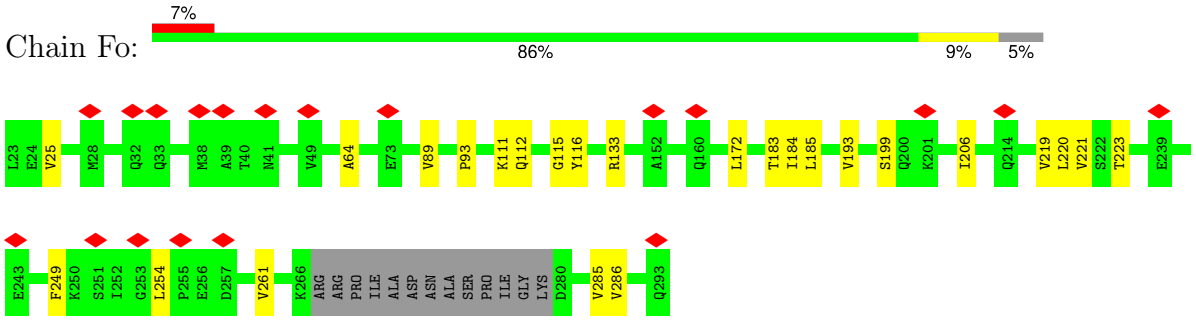


• Molecule 7: Sodium-type flagellar protein MotY

Chain Fn:

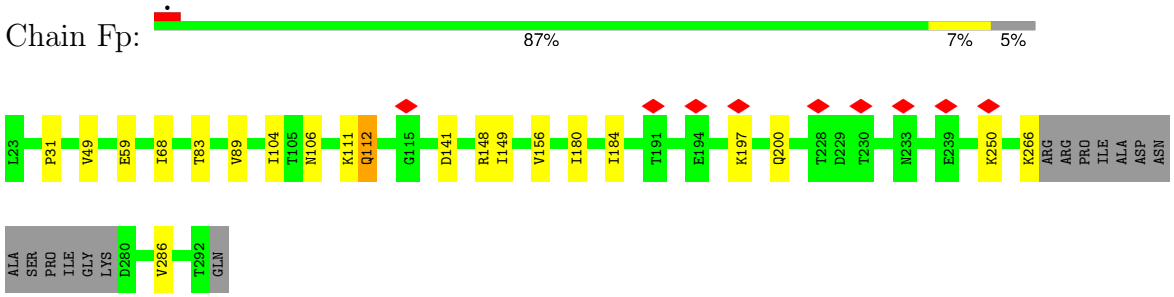
• Molecule 7: Sodium-type flagellar protein MotY

Chain Fo:



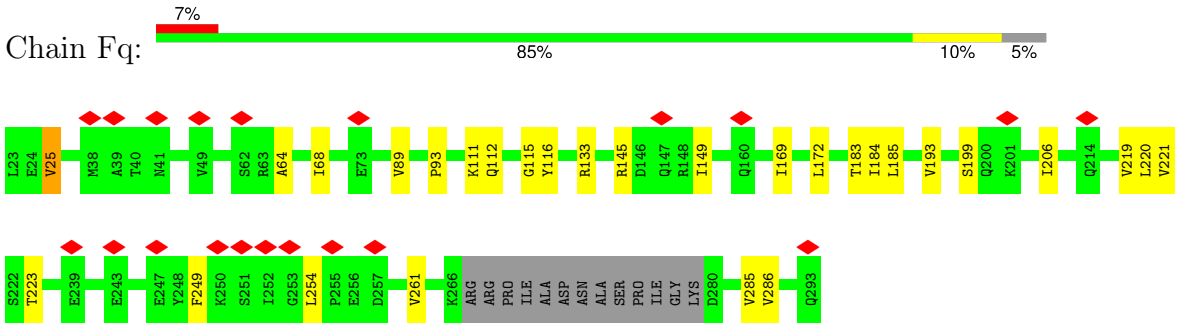
• Molecule 7: Sodium-type flagellar protein MotY

Chain Fp:



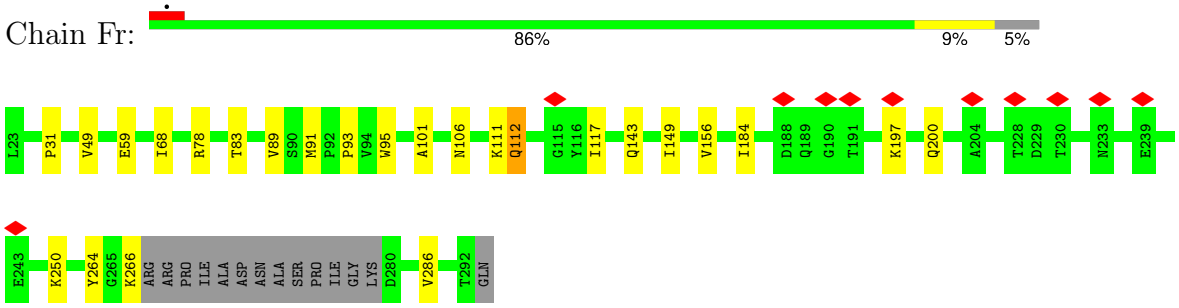
• Molecule 7: Sodium-type flagellar protein MotY

Chain Fq:



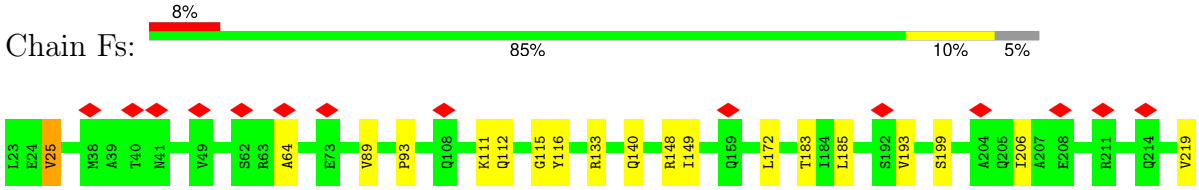
• Molecule 7: Sodium-type flagellar protein MotY

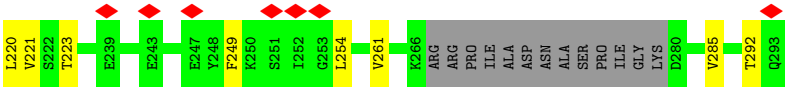
Chain Fr:



• Molecule 7: Sodium-type flagellar protein MotY

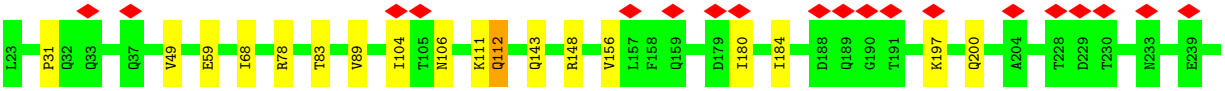
Chain Fs:

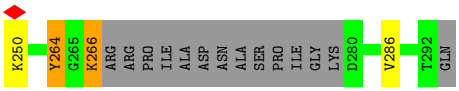




• Molecule 7: Sodium-type flagellar protein MotY

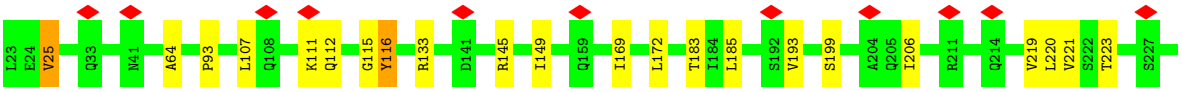
Chain Ft:

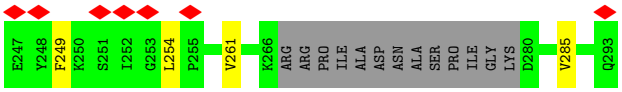




• Molecule 7: Sodium-type flagellar protein MotY

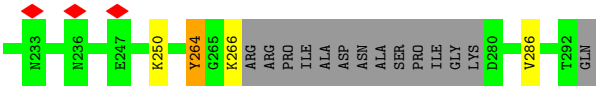
Chain Fu:





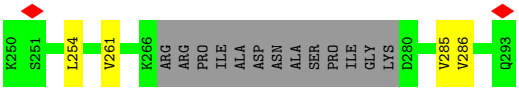
• Molecule 7: Sodium-type flagellar protein MotY

Chain Fv:



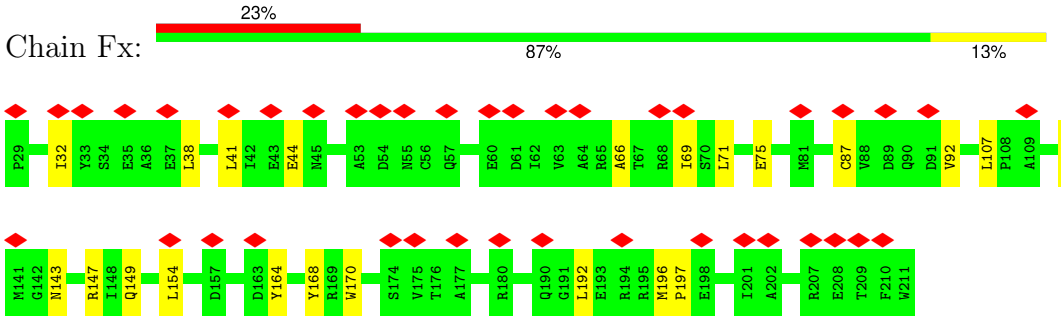
• Molecule 7: Sodium-type flagellar protein MotY

Chain Fw:



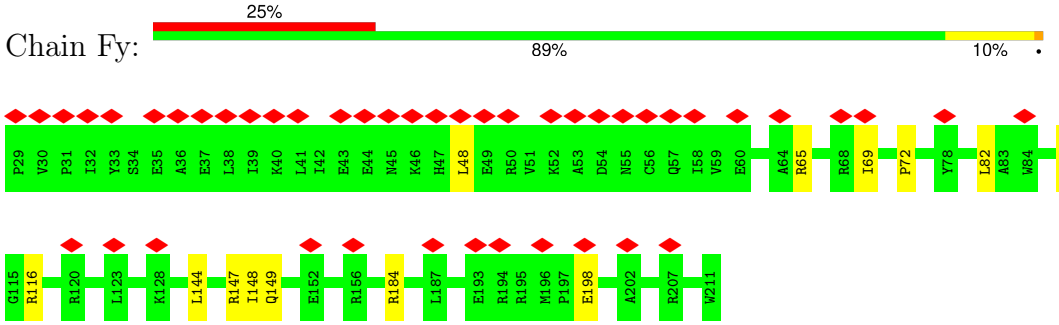
• Molecule 8: Sodium-type flagellar protein MotX

Chain Fx:



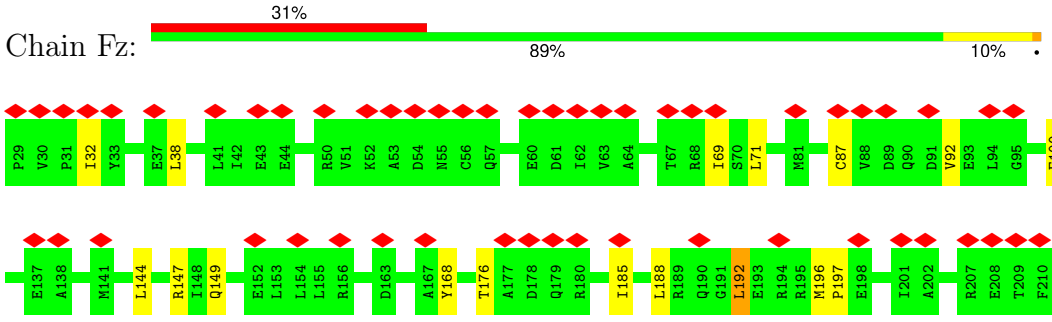
• Molecule 8: Sodium-type flagellar protein MotX

Chain Fy:



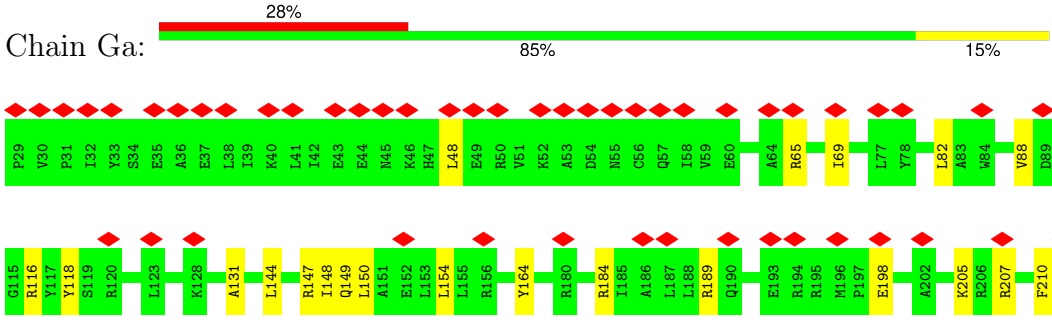
• Molecule 8: Sodium-type flagellar protein MotX

Chain Fz:



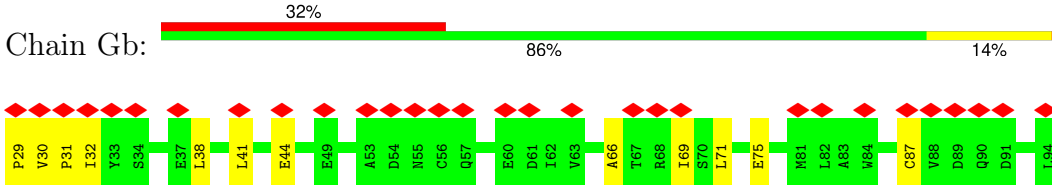
• Molecule 8: Sodium-type flagellar protein MotX

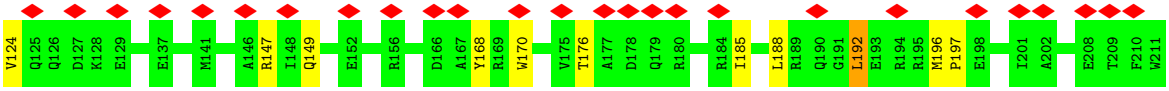
Chain Ga:



• Molecule 8: Sodium-type flagellar protein MotX

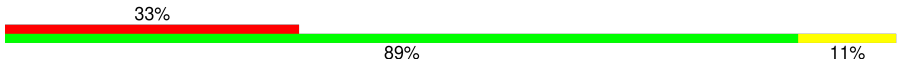
Chain Gb:

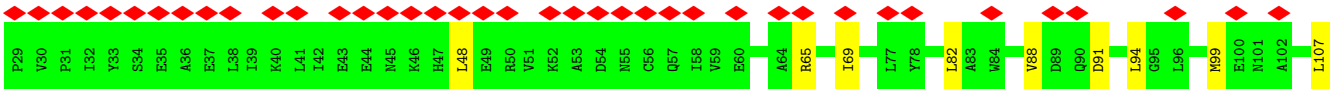


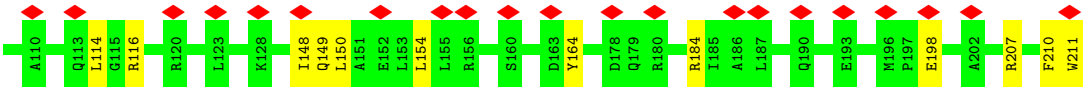


• Molecule 8: Sodium-type flagellar protein MotX

Chain Gc:

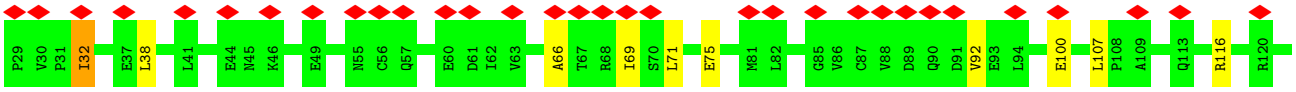


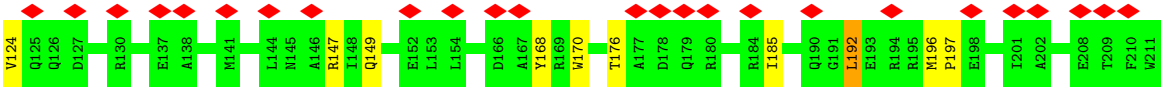




• Molecule 8: Sodium-type flagellar protein MotX

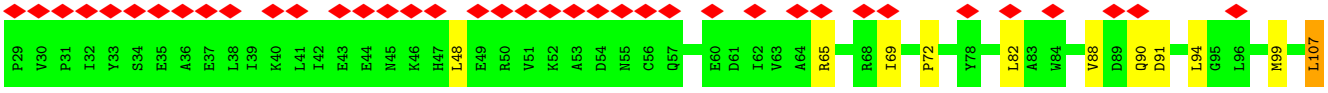
Chain Gd:

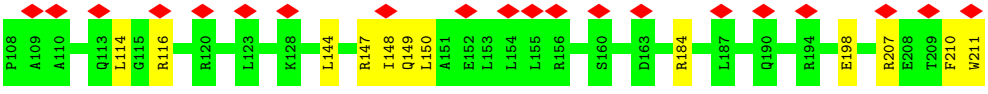




• Molecule 8: Sodium-type flagellar protein MotX

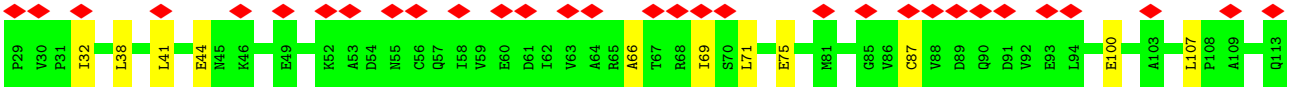
Chain Ge:

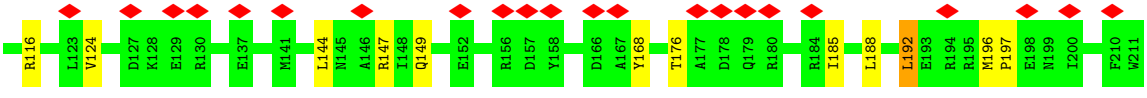




• Molecule 8: Sodium-type flagellar protein MotX

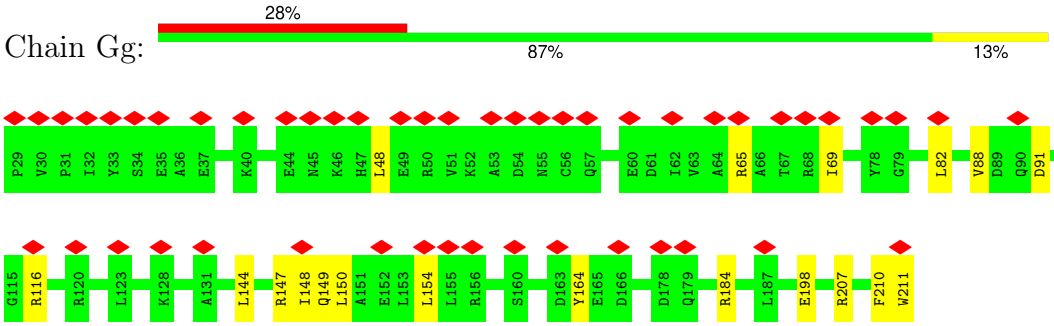
Chain Gf:





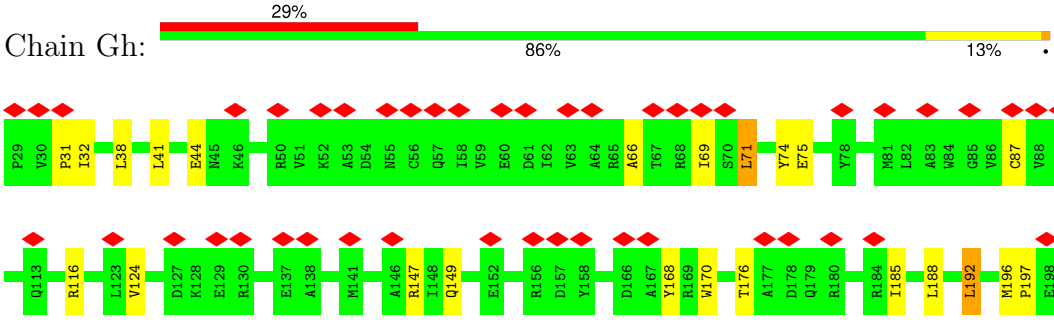
• Molecule 8: Sodium-type flagellar protein MotX

Chain Gg:



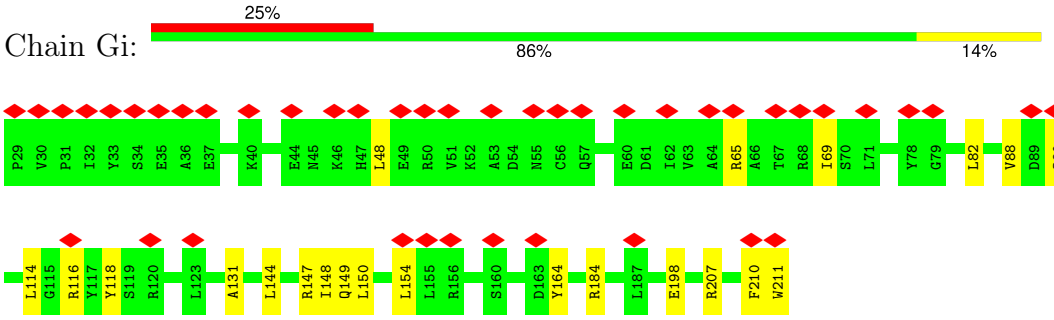
• Molecule 8: Sodium-type flagellar protein MotX

Chain Gh:



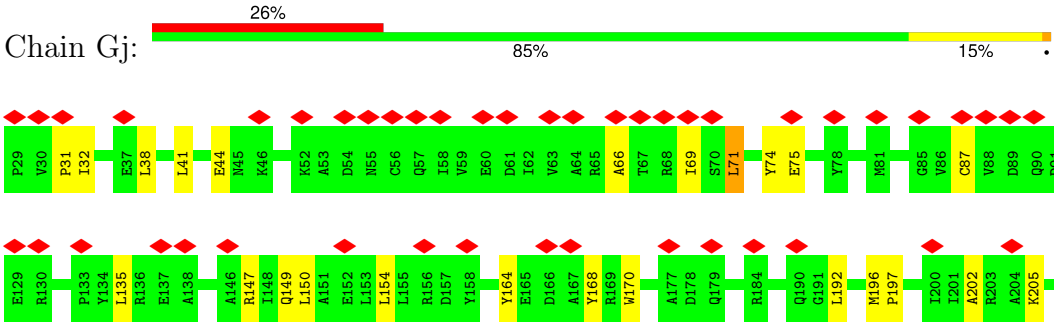
• Molecule 8: Sodium-type flagellar protein MotX

Chain Gi:



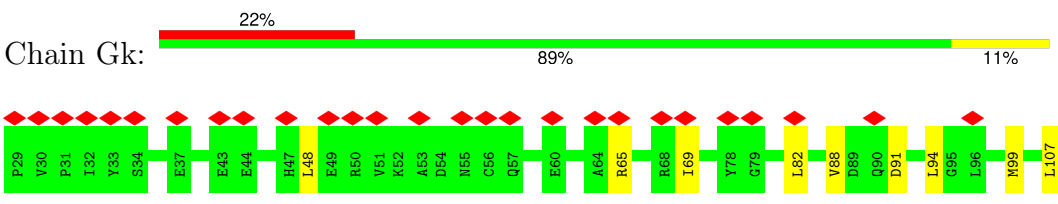
• Molecule 8: Sodium-type flagellar protein MotX

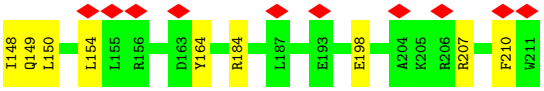
Chain Gj:



• Molecule 8: Sodium-type flagellar protein MotX

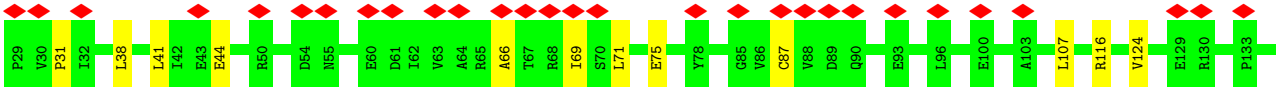
Chain Gk:

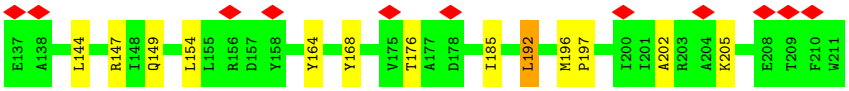




• Molecule 8: Sodium-type flagellar protein MotX

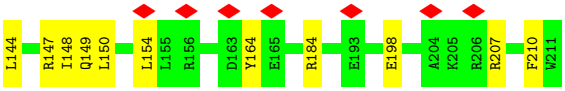
Chain Gl:





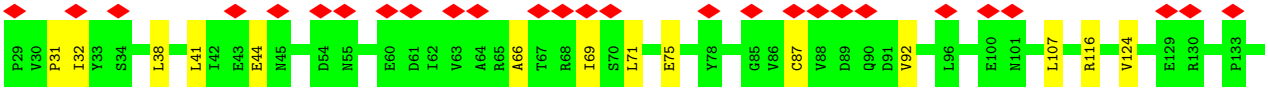
• Molecule 8: Sodium-type flagellar protein MotX

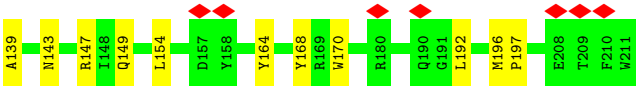
Chain Gm:



• Molecule 8: Sodium-type flagellar protein MotX

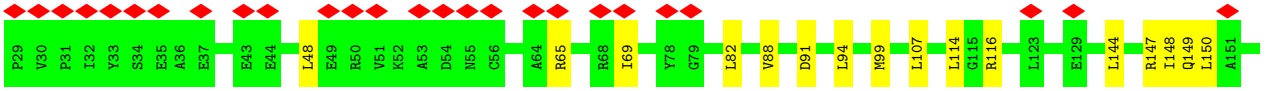
Chain Gn:

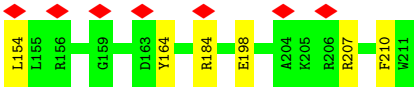




• Molecule 8: Sodium-type flagellar protein MotX

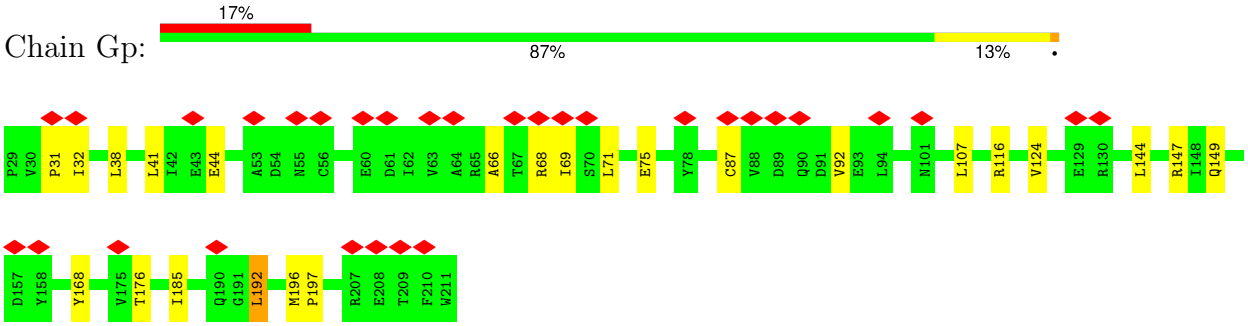
Chain Go:





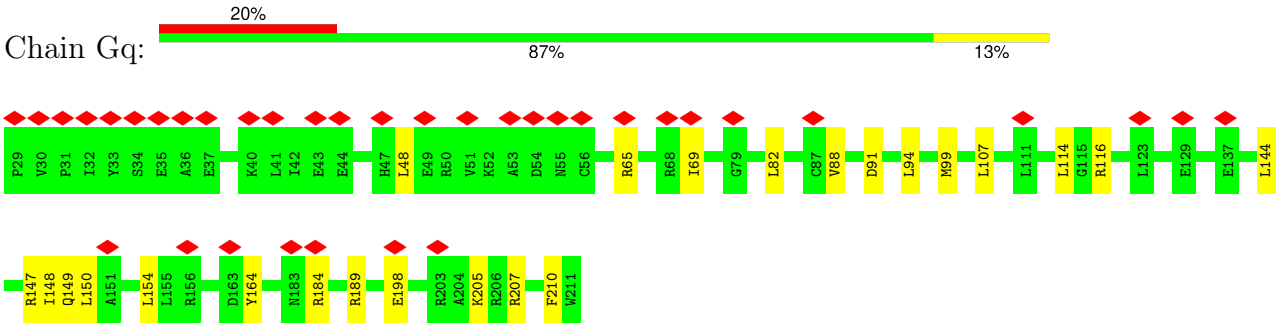
• Molecule 8: Sodium-type flagellar protein MotX

Chain Gp:



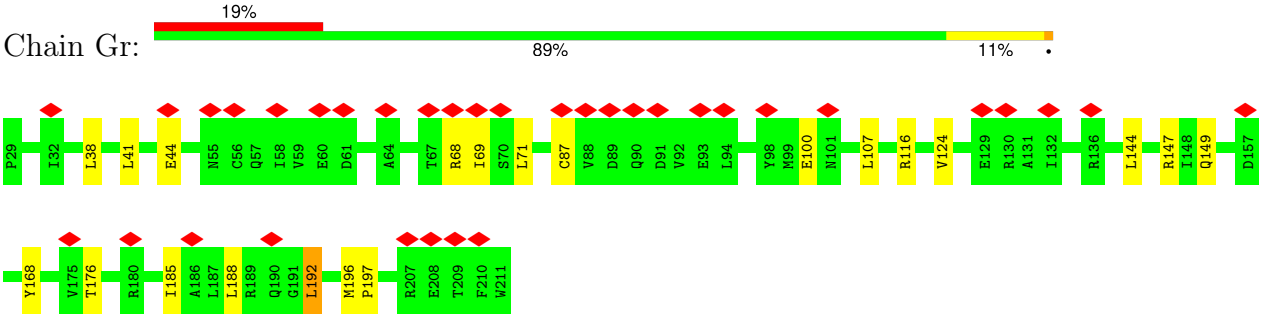
• Molecule 8: Sodium-type flagellar protein MotX

Chain Gq:



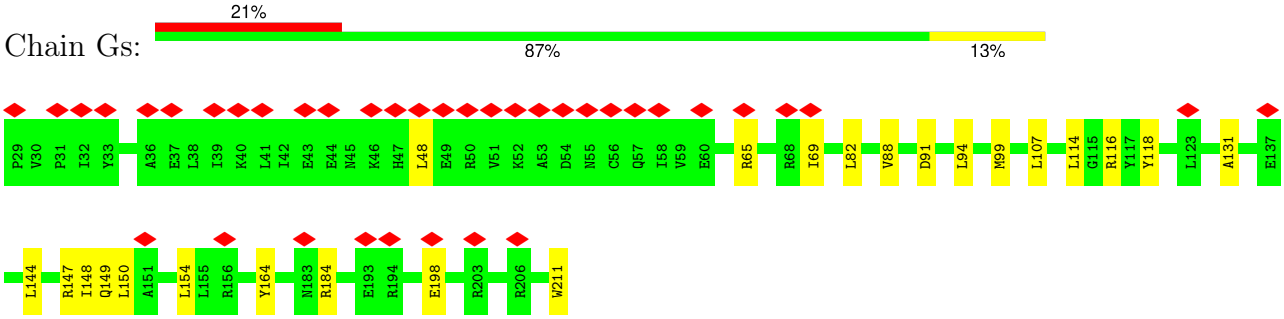
• Molecule 8: Sodium-type flagellar protein MotX

Chain Gr:



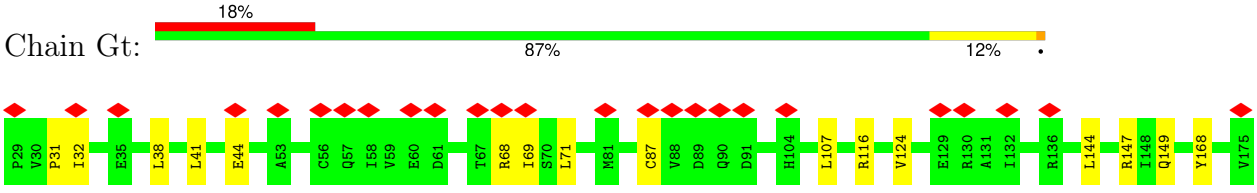
• Molecule 8: Sodium-type flagellar protein MotX

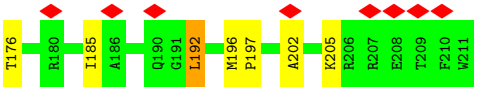
Chain Gs:



• Molecule 8: Sodium-type flagellar protein MotX

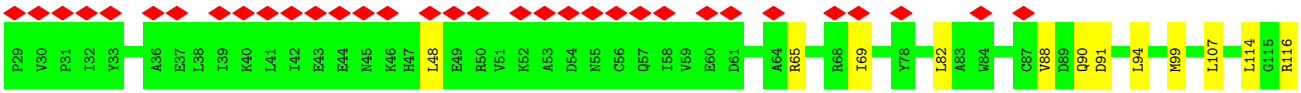
Chain Gt:

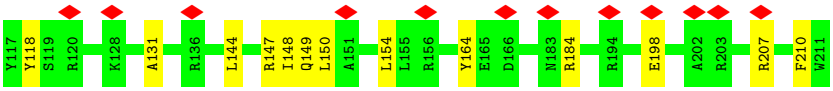




• Molecule 8: Sodium-type flagellar protein MotX

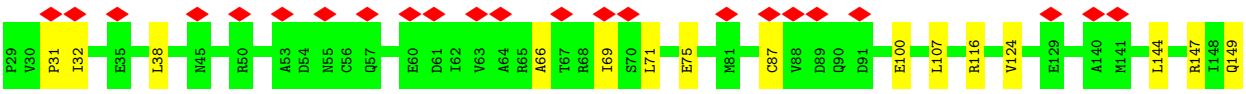
Chain Gu:

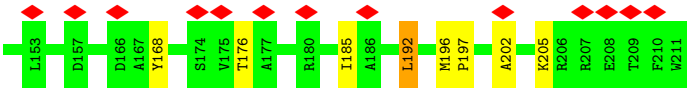




• Molecule 8: Sodium-type flagellar protein MotX

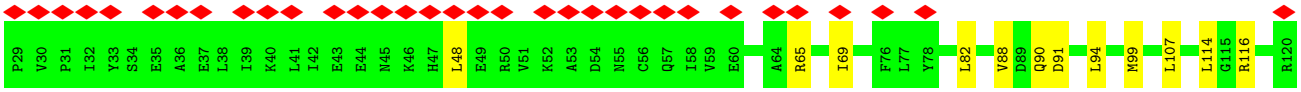
Chain Gv:

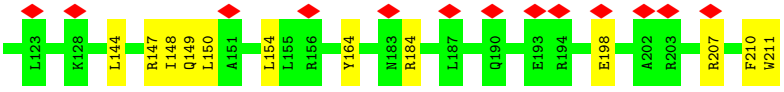




• Molecule 8: Sodium-type flagellar protein MotX

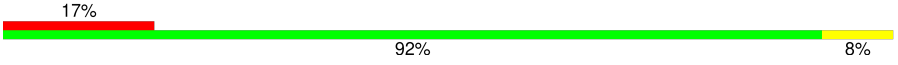
Chain Gw:

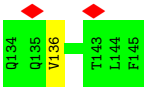




• Molecule 9: FlgP

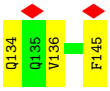
Chain Gx:





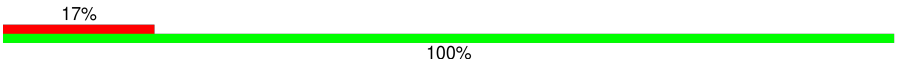
• Molecule 9: FlgP

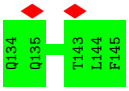
Chain Gy:



• Molecule 9: FlgP

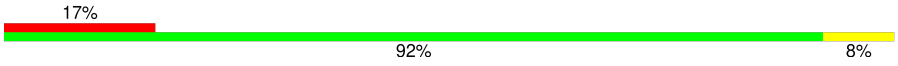
Chain Gz:

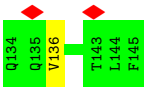




• Molecule 9: FlgP

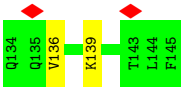
Chain Ha:





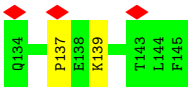
• Molecule 9: FlgP

Chain Hb:



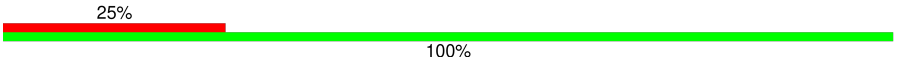
• Molecule 9: FlgP

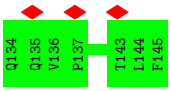
Chain Hc:



• Molecule 9: FlgP

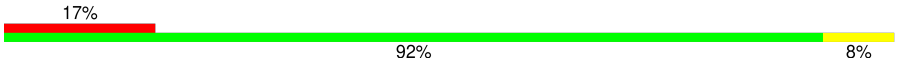
Chain Hd:

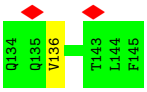




• Molecule 9: FlgP

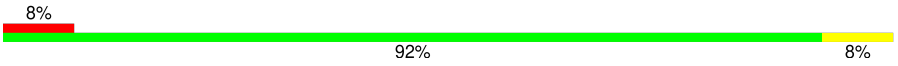
Chain He:

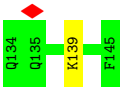




• Molecule 9: FlgP

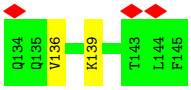
Chain Hf:





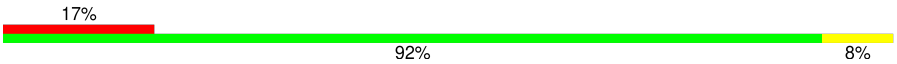
• Molecule 9: FlgP

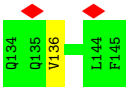
Chain Hg:



• Molecule 9: FlgP

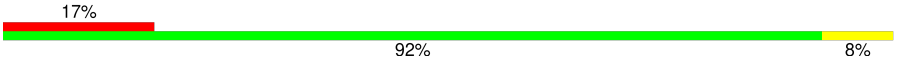
Chain Hh:

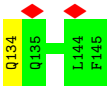




• Molecule 9: FlgP

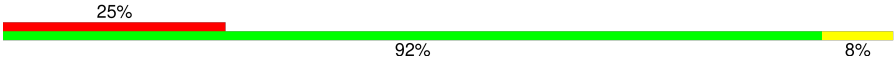
Chain Hi:

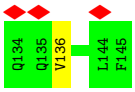




• Molecule 9: FlgP

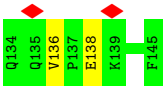
Chain Hj:





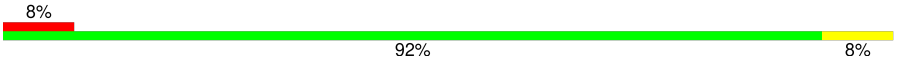
• Molecule 9: FlgP

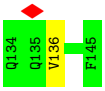
Chain Hk:



• Molecule 9: FlgP

Chain Hl:





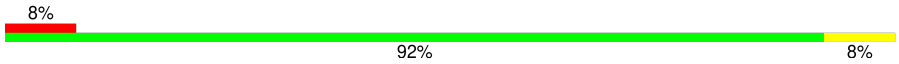
• Molecule 9: FlgP

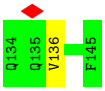
Chain Hm:

There are no outlier residues recorded for this chain.

• Molecule 9: FlgP

Chain Hn:



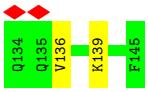


• Molecule 9: FlgP

Chain Ho:

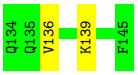
• Molecule 9: FlgP

Chain Hp:



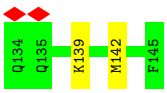
• Molecule 9: FlgP

Chain Hq:



• Molecule 9: FlgP

Chain Hr:

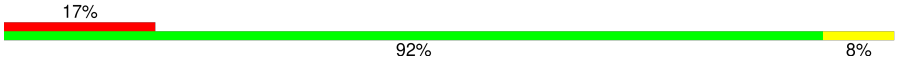


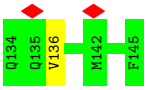
• Molecule 9: FlgP

Chain Hs:

• Molecule 9: FlgP

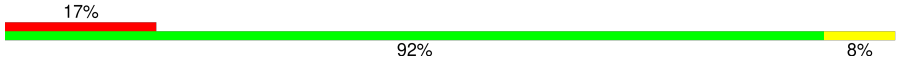
Chain Ht:

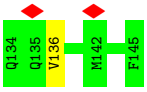




• Molecule 9: FlgP

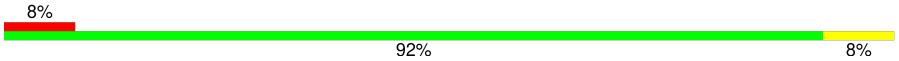
Chain Hu:





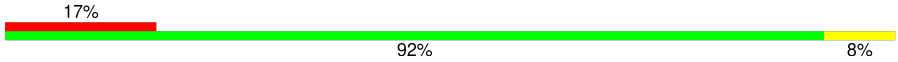
• Molecule 9: FlgP

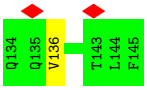
Chain Hv:



• Molecule 9: FlgP

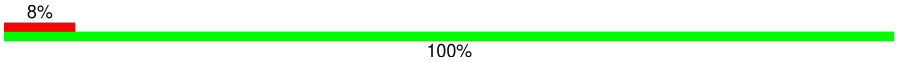
Chain Hw:

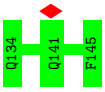




• Molecule 9: FlgP

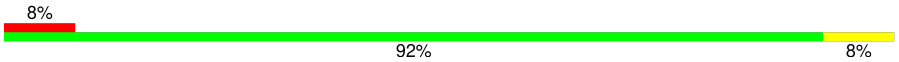
Chain Hx:

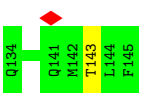




• Molecule 9: FlgP

Chain Hy:



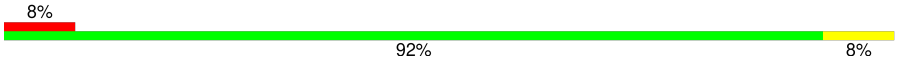


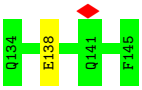
• Molecule 9: FlgP

Chain Hz:

• Molecule 9: FlgP

Chain Ia:





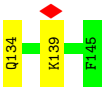
• Molecule 9: FlgP

Chain Ib:

There are no outlier residues recorded for this chain.

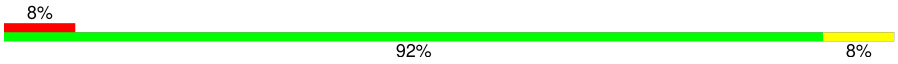
• Molecule 9: FlgP

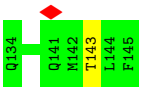
Chain Ic:



• Molecule 9: FlgP

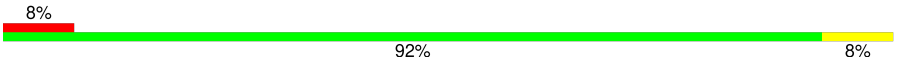
Chain Id:

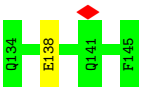




• Molecule 9: FlgP

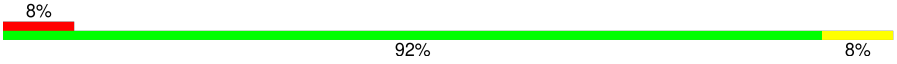
Chain Ie:

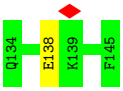




• Molecule 9: FlgP

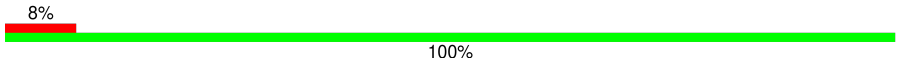
Chain If:





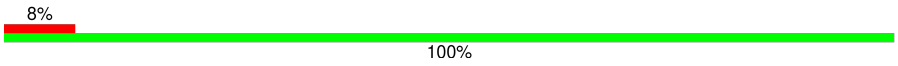
• Molecule 9: FlgP

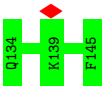
Chain Ig:



• Molecule 9: FlgP

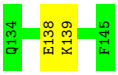
Chain Ih:





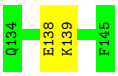
• Molecule 9: FlgP

Chain Ii:



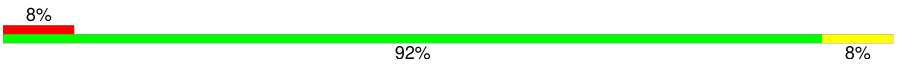
• Molecule 9: FlgP

Chain Ij:



• Molecule 9: FlgP

Chain Ik:

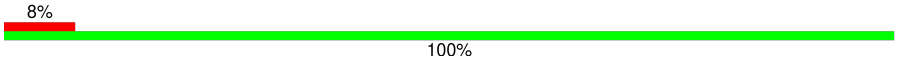


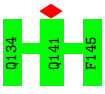
• Molecule 9: FlgP

Chain Il:

• Molecule 9: FlgP

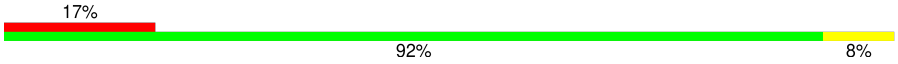
Chain Im:

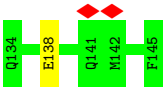




• Molecule 9: FlgP

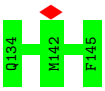
Chain In:





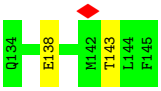
• Molecule 9: FlgP

Chain Io:



• Molecule 9: FlgP

Chain Ip:

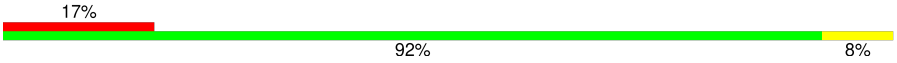


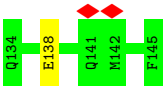
• Molecule 9: FlgP

Chain Iq:

• Molecule 9: FlgP

Chain Ir:



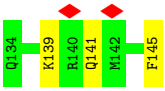


• Molecule 9: FlgP

Chain Is:

• Molecule 9: FlgP

Chain It:

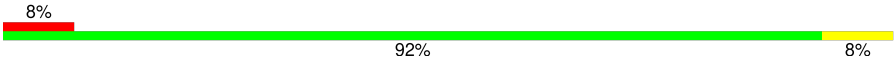


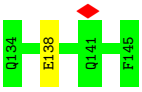
• Molecule 9: FlgP

Chain Iu:

• Molecule 9: FlgP

Chain Iv:



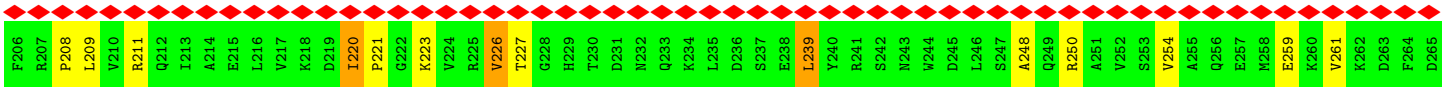


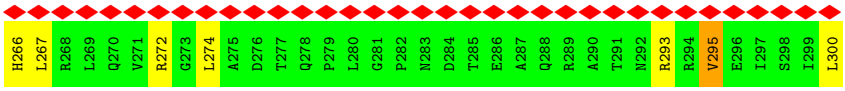
• Molecule 9: FlgP

Chain Iw:

• Molecule 10: Chemotaxis protein PomB

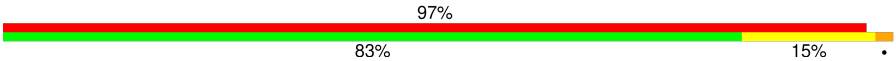
Chain Ix:





• Molecule 10: Chemotaxis protein PomB

Chain Iy:



F206 R207 P208 L209 V210 R211 Q212 I213 A214 E215 L216 V217 K218 D219 I220 P221 G222 K223 V224 R225 V226 T227 G228 H229 T230 D231 N232 Q233 K234 L235 D236 S237 E238 L239 Y240 R241 S242 N243 W244 D245 L246 S247 A248 Q249 R250 A251 V252 S253 V254 A255 Q256 E257 M258 E259 K260 V261 K262 D263 F264 D265

H266 L267 R268 L269 Q270 V271 R272 G273 L274 A275 D276 T277 Q278 P279 L280 G281 P282 N283 D284 T285 E286 A287 Q288 R289 A290 T291 N292 R293 R294 V295 E296 I297 S298 I299 L300

- Molecule 10: Chemotaxis protein PomB

Chain Iz:

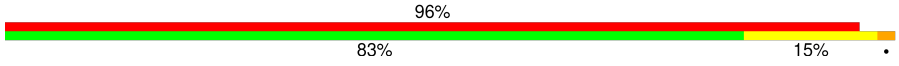
Q146 Q147 Q148 A149 Q150 A151 M152 S153 E154 Q155 M156 E157 T158 V159 A160 E161 S162 I163 K164 K165 A166 L167 S168 R169 E170 I171 E172 Q173 G174 A175 I176 E177 V178 E179 N180 L181 G182 Q183 Q184 I185 D186 I187 R188 I189 R190 E191 K192 G193 A194 F195 P196 E197 G198 S199 A200 F201 L202 Q203 P204 K205

F206 R207 P208 L209 V210 R211 Q212 I213 A214 E215 L216 V217 K218 D219 I220 P221 G222 K223 V224 R225 V226 T227 G228 H229 T230 D231 N232 Q233 K234 L235 D236 S237 E238 L239 Y240 R241 S242 N243 W244 D245 L246 S247 A248 Q249 R250 A251 V252 S253 V254 A255 Q256 E257 M258 E259 K260 V261 K262 D263 F264 D265

H266 L267 R268 L269 Q270 V271 R272 G273 L274 A275 D276 T277 Q278 P279 L280 G281 P282 N283 D284 T285 E286 A287 Q288 R289 A290 T291 N292 R293 R294 V295 E296 I297 S298 I299 L300

- Molecule 10: Chemotaxis protein PomB

Chain Ja:



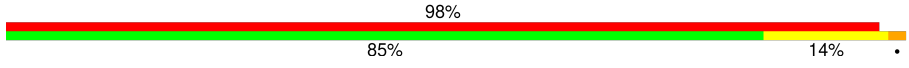
Q146 Q147 Q148 A149 Q150 A151 M152 S153 E154 Q155 M156 E157 T158 V159 A160 E161 S162 I163 K164 K165 A166 L167 S168 R169 E170 I171 E172 Q173 G174 A175 I176 E177 V178 E179 N180 L181 G182 Q183 Q184 I185 D186 I187 R188 I189 R190 E191 K192 G193 A194 F195 P196 E197 G198 S199 A200 F201 L202 Q203 P204 K205

F206 R207 P208 L209 V210 R211 Q212 I213 A214 E215 L216 V217 K218 D219 I220 P221 G222 K223 V224 R225 V226 T227 G228 H229 T230 D231 N232 Q233 K234 L235 D236 S237 E238 L239 Y240 R241 S242 N243 W244 D245 L246 S247 A248 Q249 R250 A251 V252 S253 V254 A255 Q256 E257 M258 E259 K260 V261 K262 D263 F264 D265

H266 L267 R268 L269 Q270 V271 R272 G273 L274 A275 D276 T277 Q278 P279 L280 G281 P282 N283 D284 T285 E286 A287 Q288 R289 A290 T291 N292 R293 R294 V295 E296 I297 S298 I299 L300

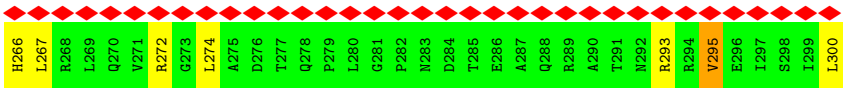
- Molecule 10: Chemotaxis protein PomB

Chain Jb:



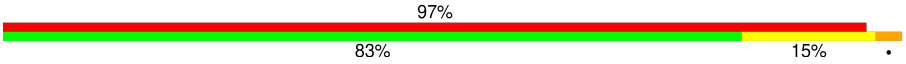
Q146 Q147 Q148 A149 Q150 A151 M152 S153 E154 Q155 M156 E157 T158 V159 A160 E161 S162 I163 K164 K165 A166 L167 S168 R169 E170 I171 E172 Q173 G174 A175 I176 E177 V178 E179 N180 L181 G182 Q183 Q184 I185 D186 I187 R188 I189 R190 E191 K192 G193 A194 F195 P196 E197 G198 S199 A200 F201 L202 Q203 P204 K205

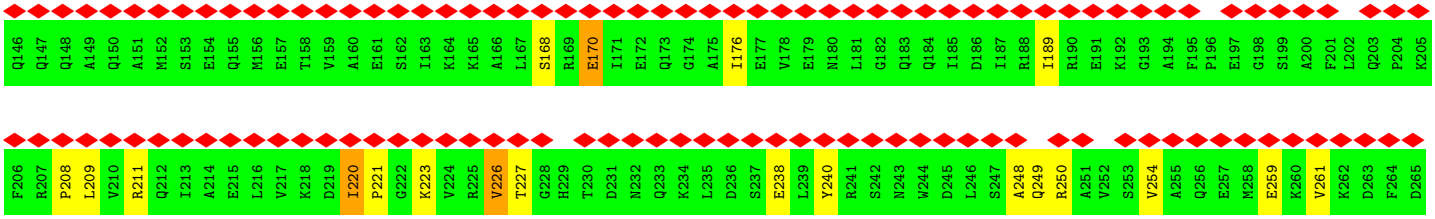
F206 R207 P208 L209 V210 R211 Q212 I213 A214 E215 L216 V217 K218 D219 I220 P221 G222 K223 V224 R225 V226 T227 G228 H229 T230 D231 N232 Q233 K234 L235 D236 S237 E238 L239 Y240 R241 S242 N243 W244 D245 L246 S247 A248 Q249 R250 A251 V252 S253 V254 A255 Q256 E257 M258 E259 K260 V261 K262 D263 F264 D265



• Molecule 10: Chemotaxis protein PomB

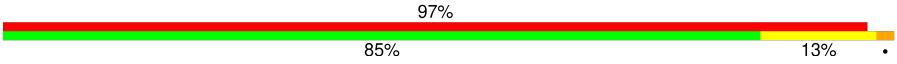
Chain Jc:

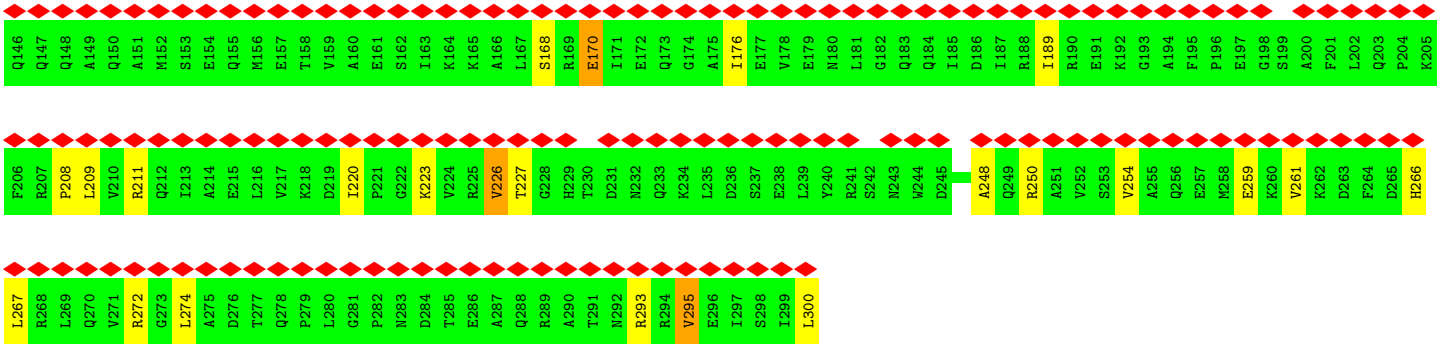




• Molecule 10: Chemotaxis protein PomB

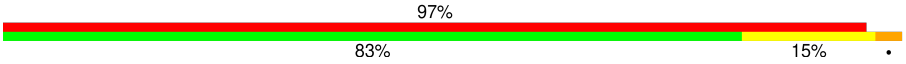
Chain Jd:

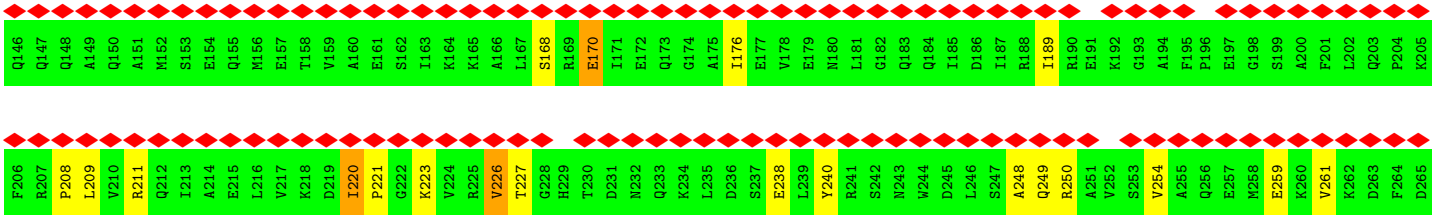




• Molecule 10: Chemotaxis protein PomB

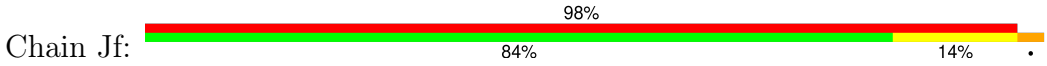
Chain Je:

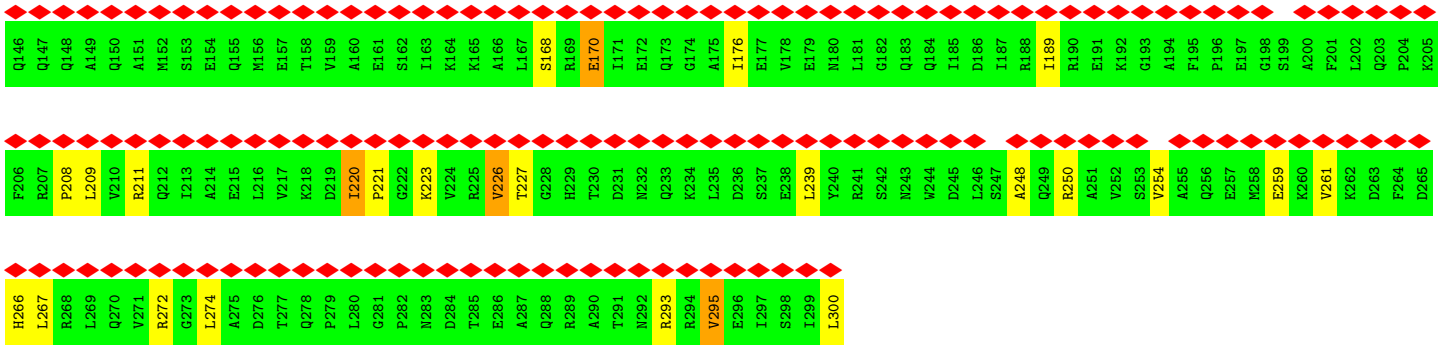




• Molecule 10: Chemotaxis protein PomB

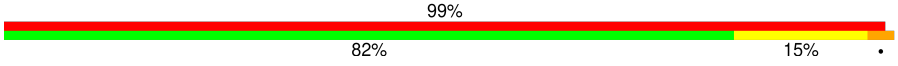
Chain Jf:

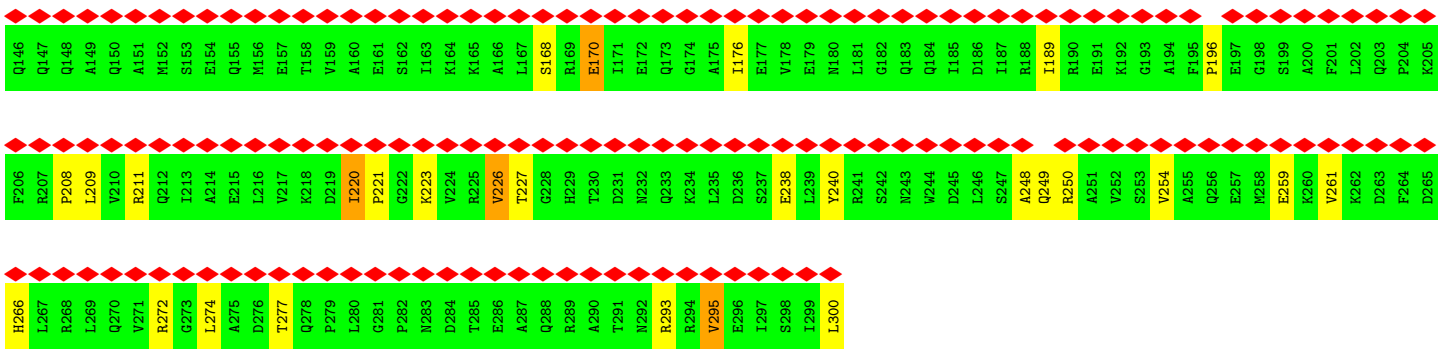




• Molecule 10: Chemotaxis protein PomB

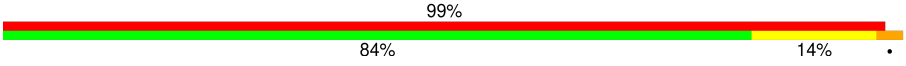
Chain Jg:

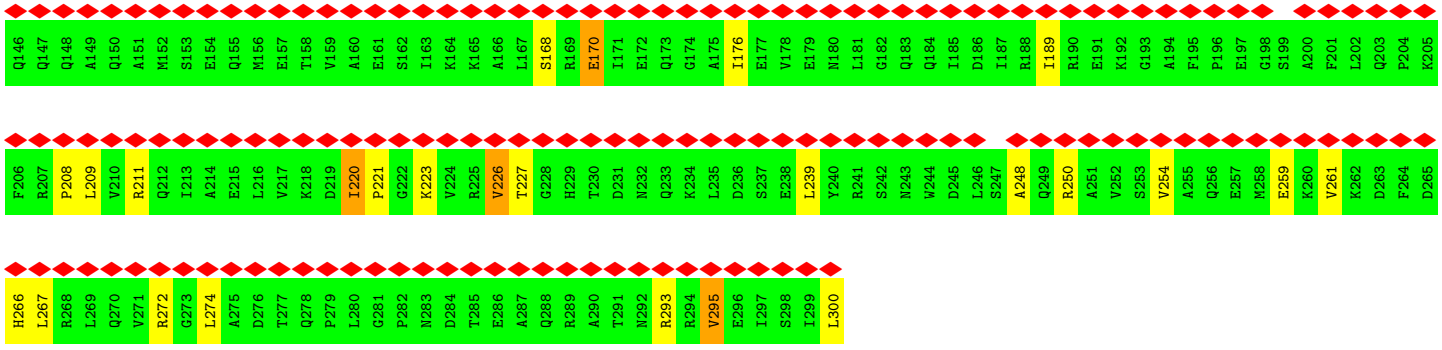




• Molecule 10: Chemotaxis protein PomB

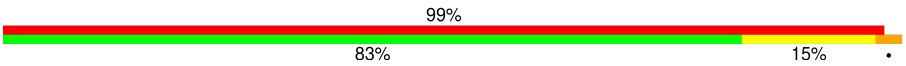
Chain Jh:

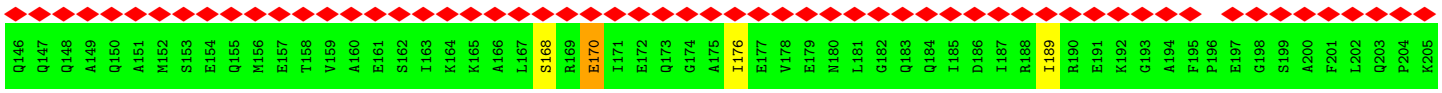




• Molecule 10: Chemotaxis protein PomB

Chain Ji:





F206 R207 P208 L209 V210 R211 Q212 I213 A214 E215 L216 V217 K218 D219 I220 P221 G222 K223 V224 R225 V226 T227 G228 H229 T230 D231 N232 Q233 K234 L235 D236 S237 E238 L239 Y240 R241 S242 N243 W244 D245 L246 S247 A248 Q249 R250 A251 V252 S253 V254 A255 Q256 E257 M258 E259 K260 V261 K262 D263 F264 D265

H266 L267 R268 L269 Q270 V271 R272 G273 L274 A275 D276 T277 Q278 P279 L280 G281 P282 N283 D284 T285 E286 A287 Q288 R289 A290 T291 N292 R293 R294 V295 E296 I297 S298 T299 L300

- Molecule 10: Chemotaxis protein PomB

Chain Jj:

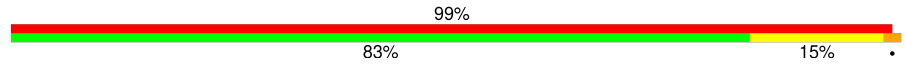
Q146 Q147 Q148 A149 Q150 A151 M152 S153 E154 Q155 M156 E157 T158 V159 A160 E161 S162 I163 K164 K165 A166 L167 S168 R169 E170 I171 E172 Q173 G174 A175 I176 E177 V178 E179 N180 L181 G182 Q183 Q184 I185 D186 I187 R188 I189 R190 E191 K192 G193 A194 F195 P196 E197 G198 S199 A200 F201 L202 Q203 P204 K205

F206 R207 P208 L209 V210 R211 Q212 I213 A214 E215 L216 V217 K218 D219 I220 P221 G222 K223 V224 R225 V226 T227 G228 H229 T230 D231 N232 Q233 K234 L235 D236 S237 E238 L239 Y240 R241 S242 N243 W244 D245 L246 S247 A248 Q249 R250 A251 V252 S253 V254 A255 Q256 E257 M258 E259 K260 V261 K262 D263 F264 D265

H266 L267 R268 L269 Q270 V271 R272 G273 L274 A275 D276 T277 Q278 P279 L280 G281 P282 N283 D284 T285 E286 A287 Q288 R289 A290 T291 N292 R293 R294 V295 E296 I297 S298 T299 L300

- Molecule 10: Chemotaxis protein PomB

Chain Jk:



Q146 Q147 Q148 A149 Q150 A151 M152 S153 E154 Q155 M156 E157 T158 V159 A160 E161 S162 I163 K164 K165 A166 L167 S168 R169 E170 I171 E172 Q173 G174 A175 I176 E177 V178 E179 N180 L181 G182 Q183 Q184 I185 D186 I187 R188 I189 R190 E191 K192 G193 A194 F195 P196 E197 G198 S199 A200 F201 L202 Q203 P204 K205

F206 R207 P208 L209 V210 R211 Q212 I213 A214 E215 L216 V217 K218 D219 I220 P221 G222 K223 V224 R225 V226 T227 G228 H229 T230 D231 N232 Q233 K234 L235 D236 S237 E238 L239 Y240 R241 S242 N243 W244 D245 L246 S247 A248 Q249 R250 A251 V252 S253 V254 A255 Q256 E257 M258 E259 K260 V261 K262 D263 F264 D265

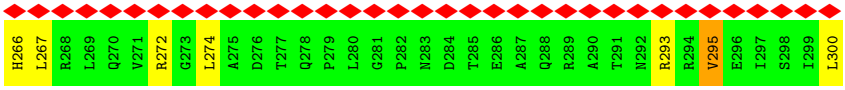
H266 L267 R268 L269 Q270 V271 R272 G273 L274 A275 D276 T277 Q278 P279 L280 G281 P282 N283 D284 T285 E286 A287 Q288 R289 A290 T291 N292 R293 R294 V295 E296 I297 S298 T299 L300

- Molecule 10: Chemotaxis protein PomB

Chain Jl:

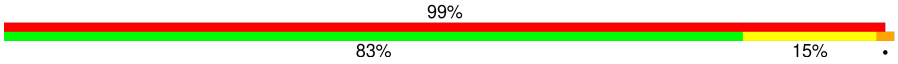
Q146 Q147 Q148 A149 Q150 A151 M152 S153 E154 Q155 M156 E157 T158 V159 A160 E161 S162 I163 K164 K165 A166 L167 S168 R169 E170 I171 E172 Q173 G174 A175 I176 E177 V178 E179 N180 L181 G182 Q183 Q184 I185 D186 I187 R188 I189 R190 E191 K192 G193 A194 F195 P196 E197 G198 S199 A200 F201 L202 Q203 P204 K205

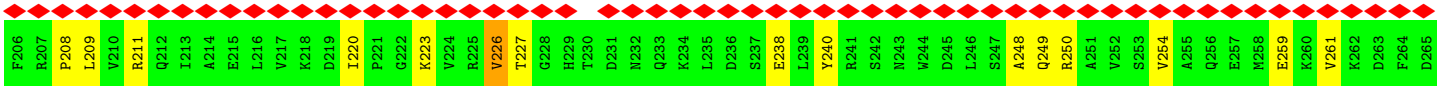
F206 R207 P208 L209 V210 R211 Q212 I213 A214 E215 L216 V217 K218 D219 I220 P221 G222 K223 V224 R225 V226 T227 G228 H229 T230 D231 N232 Q233 K234 L235 D236 S237 E238 L239 Y240 R241 S242 N243 W244 D245 L246 S247 A248 Q249 R250 A251 V252 S253 V254 A255 Q256 E257 M258 E259 K260 V261 K262 D263 F264 D265

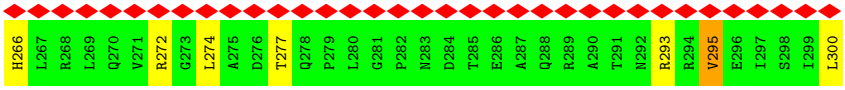


• Molecule 10: Chemotaxis protein PomB

Chain Jm:

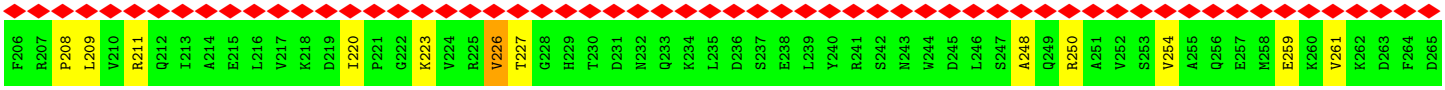


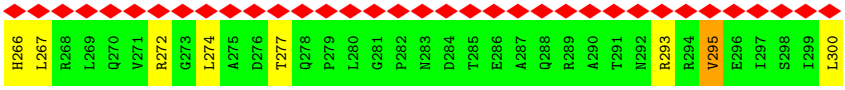




• Molecule 10: Chemotaxis protein PomB

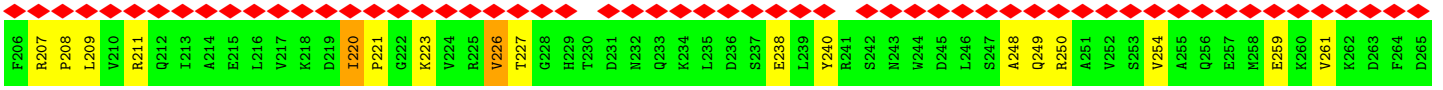
Chain Jn:

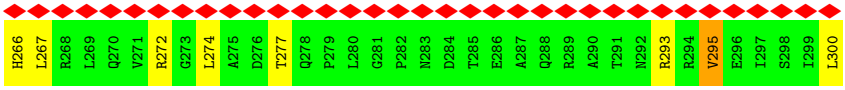




• Molecule 10: Chemotaxis protein PomB

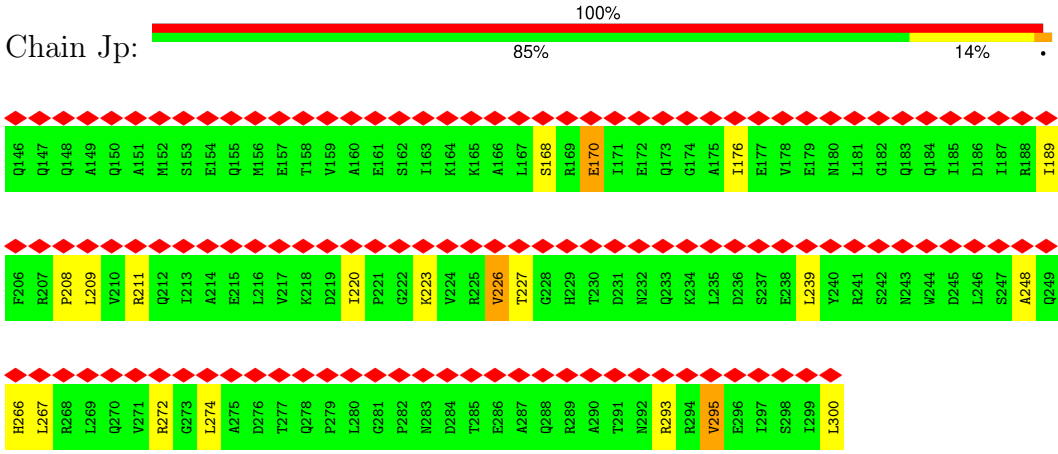
Chain Jo:





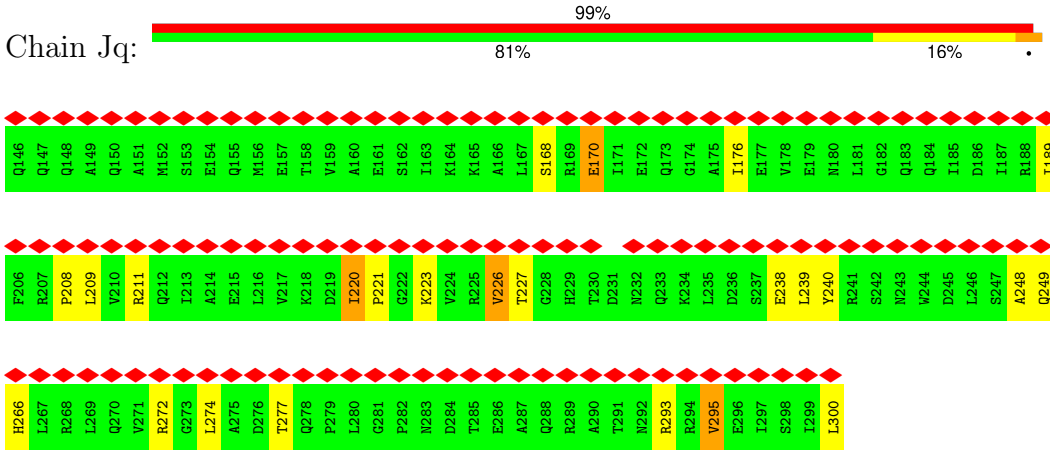
• Molecule 10: Chemotaxis protein PomB

Chain Jp:



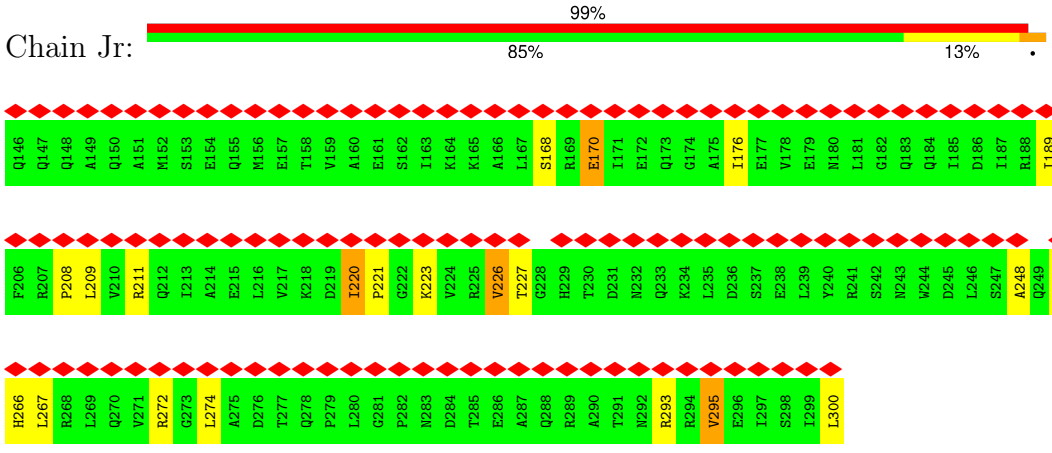
• Molecule 10: Chemotaxis protein PomB

Chain Jq:



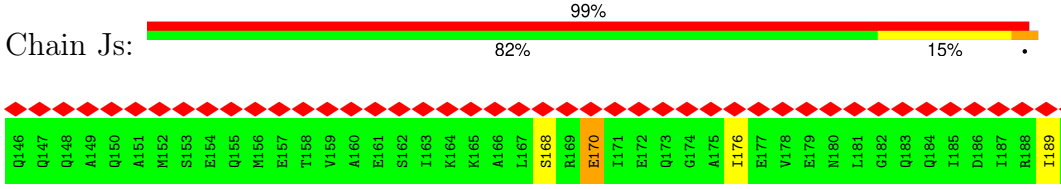
• Molecule 10: Chemotaxis protein PomB

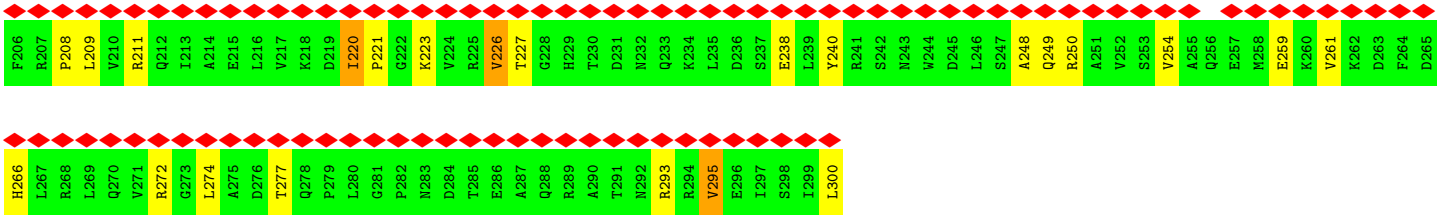
Chain Jr:



• Molecule 10: Chemotaxis protein PomB

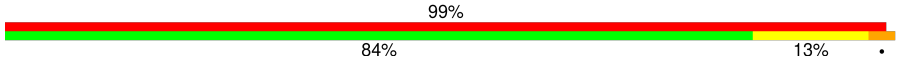
Chain Js:

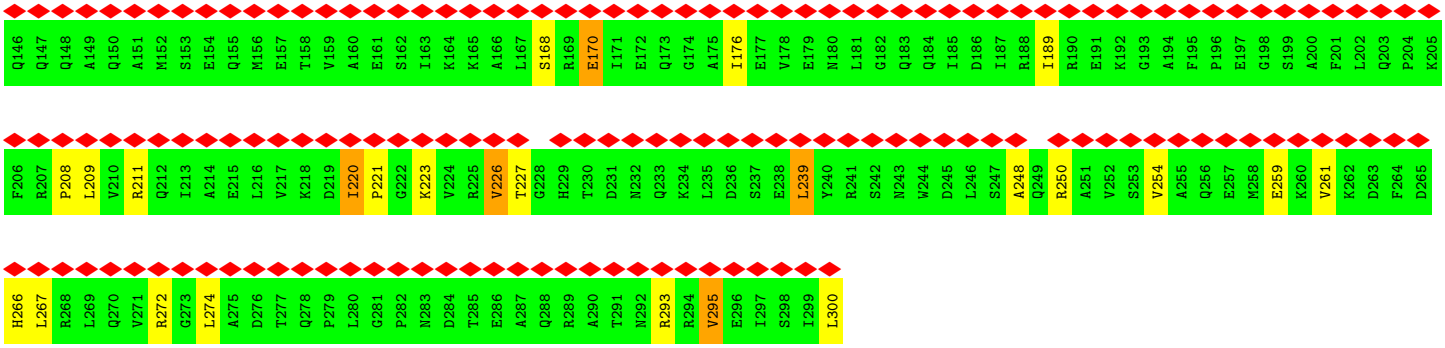




• Molecule 10: Chemotaxis protein PomB

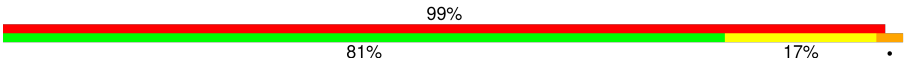
Chain Jt:

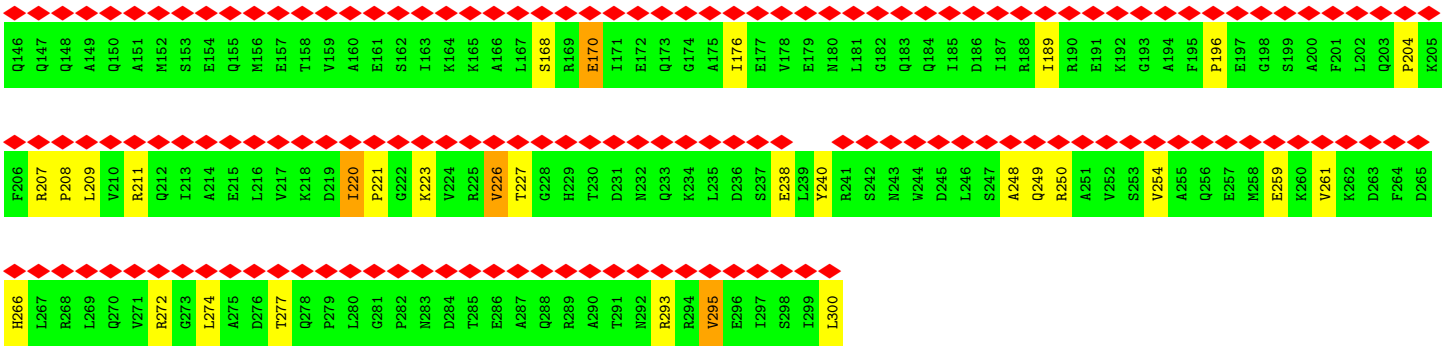




• Molecule 10: Chemotaxis protein PomB

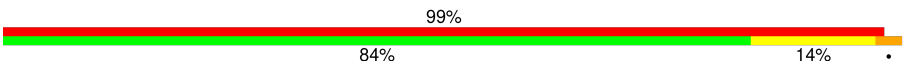
Chain Ju:

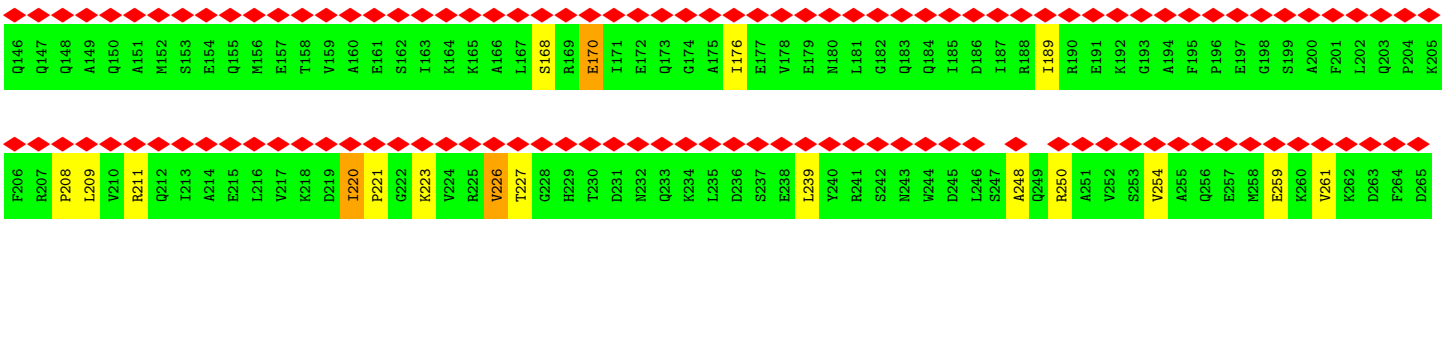


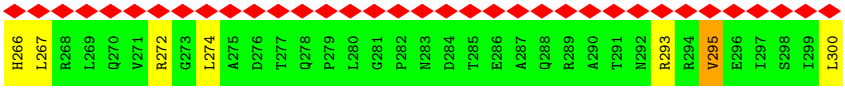


• Molecule 10: Chemotaxis protein PomB

Chain Jv:

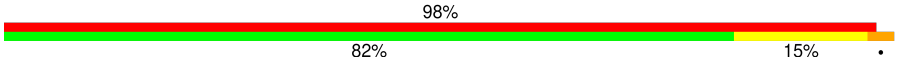


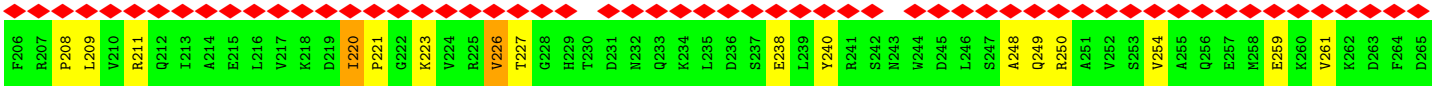


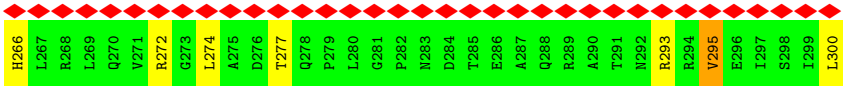


• Molecule 10: Chemotaxis protein PomB

Chain Jw:

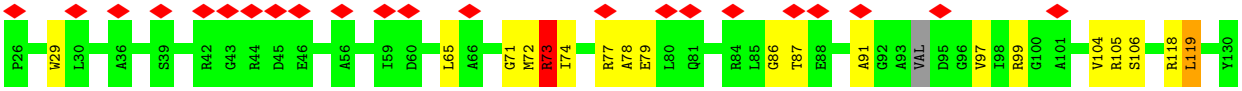






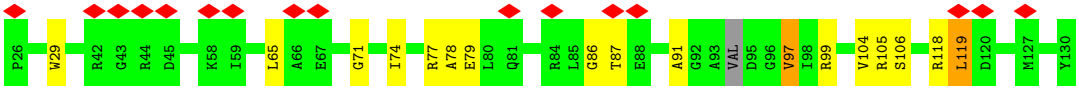
• Molecule 11: Lipoprotein

Chain Jx:



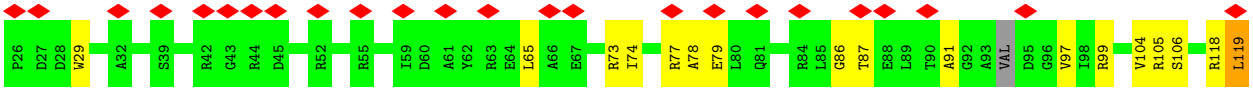
• Molecule 11: Lipoprotein

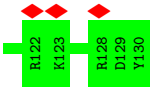
Chain Jy:



• Molecule 11: Lipoprotein

Chain Jz:



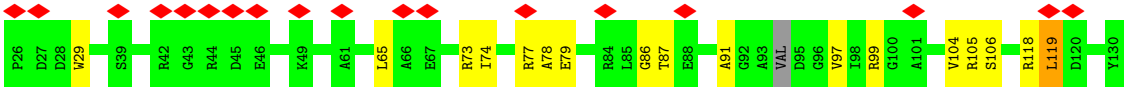


• Molecule 11: Lipoprotein

Chain Ka:

• Molecule 11: Lipoprotein

Chain Kb:

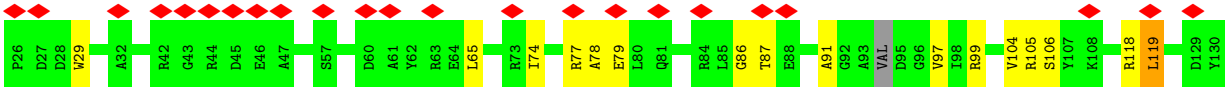


• Molecule 11: Lipoprotein

Chain Kc:

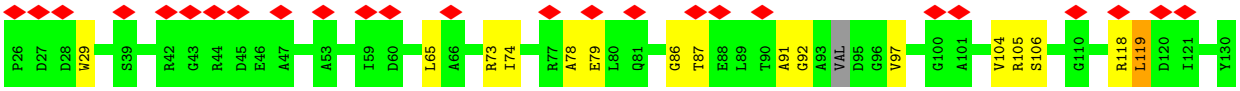
• Molecule 11: Lipoprotein

Chain Kd:



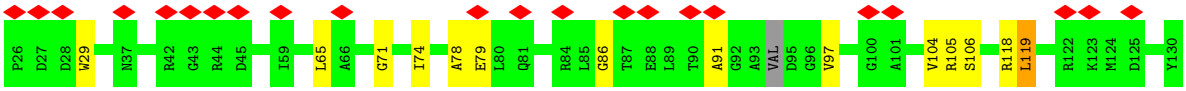
• Molecule 11: Lipoprotein

Chain Ke:



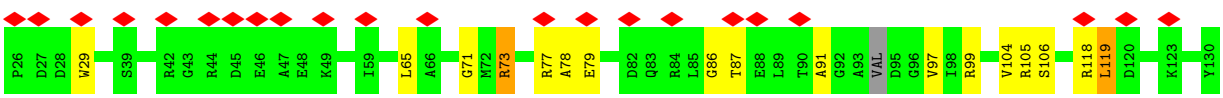
• Molecule 11: Lipoprotein

Chain Kf:



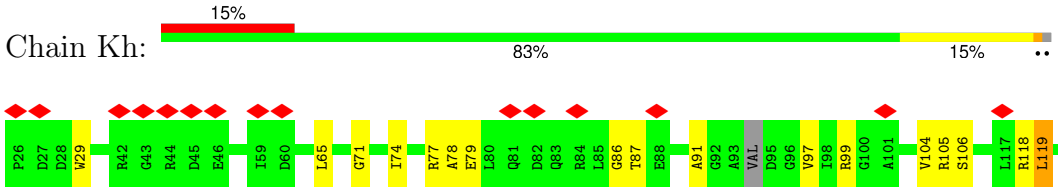
• Molecule 11: Lipoprotein

Chain Kg:



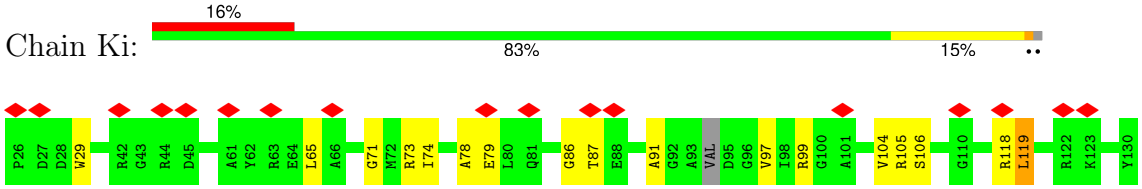
• Molecule 11: Lipoprotein

Chain Kh:



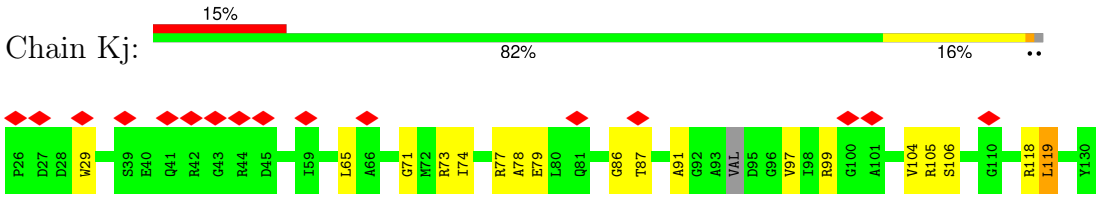
• Molecule 11: Lipoprotein

Chain Ki:



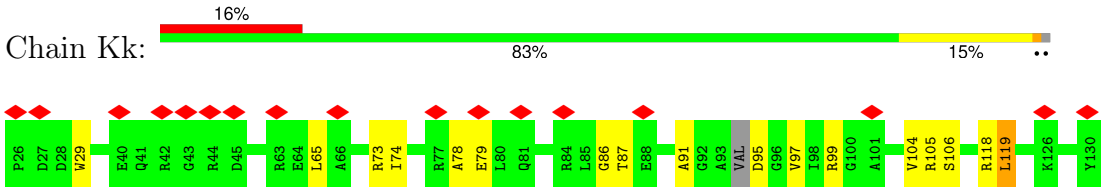
• Molecule 11: Lipoprotein

Chain Kj:



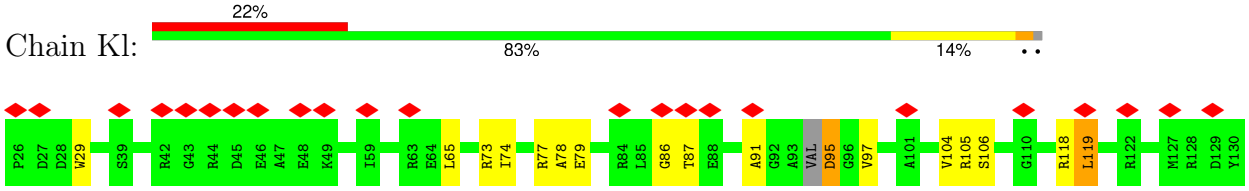
• Molecule 11: Lipoprotein

Chain Kk:



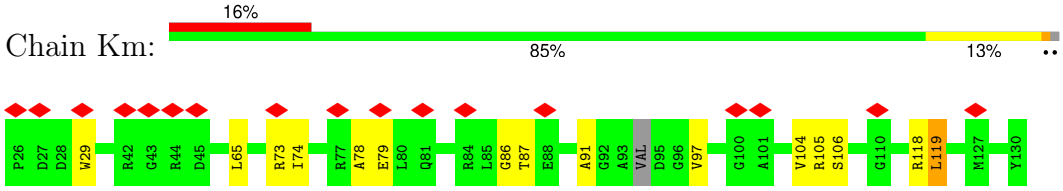
• Molecule 11: Lipoprotein

Chain Kl:



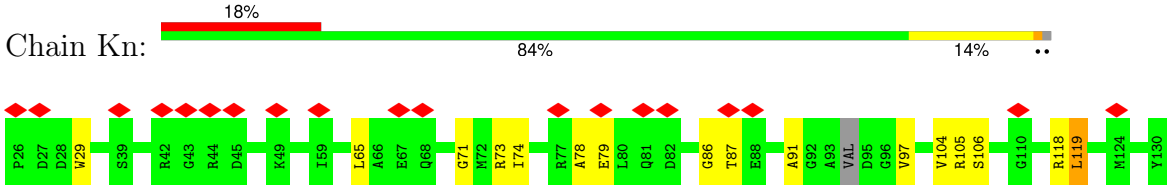
• Molecule 11: Lipoprotein

Chain Km:



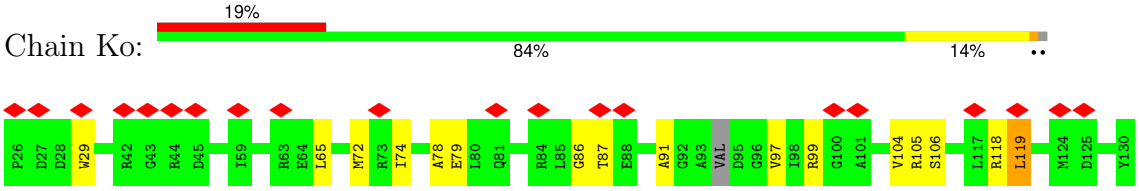
• Molecule 11: Lipoprotein

Chain Kn:



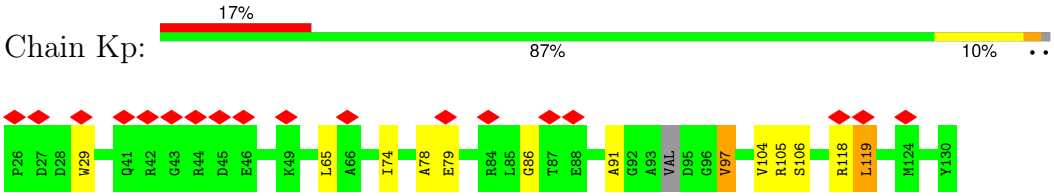
• Molecule 11: Lipoprotein

Chain Ko:



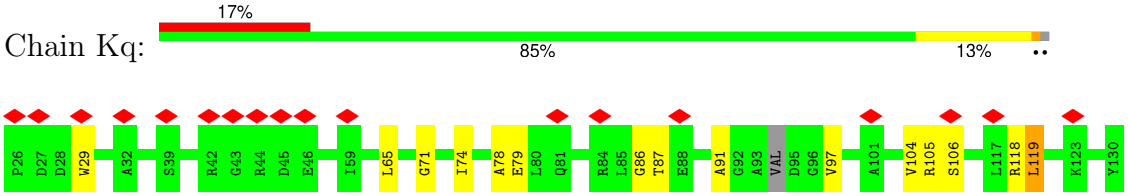
• Molecule 11: Lipoprotein

Chain Kp:



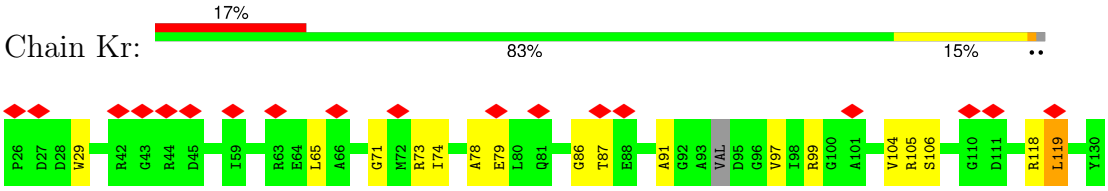
• Molecule 11: Lipoprotein

Chain Kq:



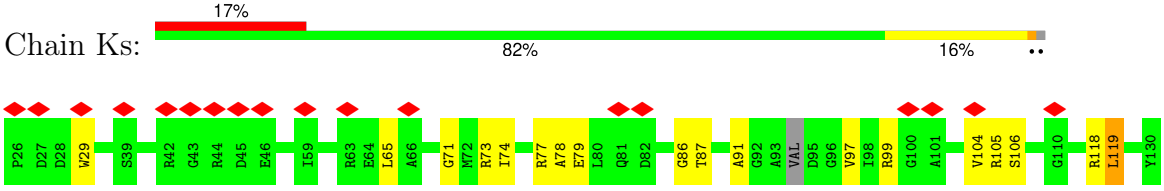
• Molecule 11: Lipoprotein

Chain Kr:



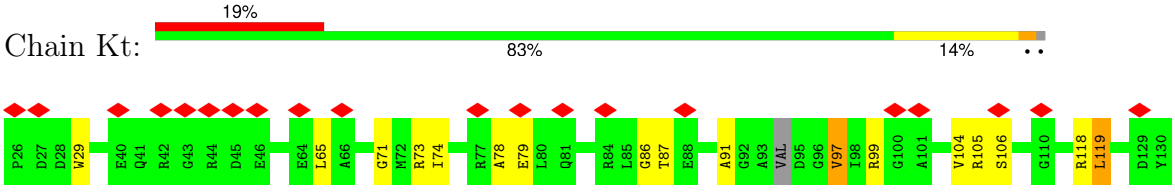
• Molecule 11: Lipoprotein

Chain Ks:



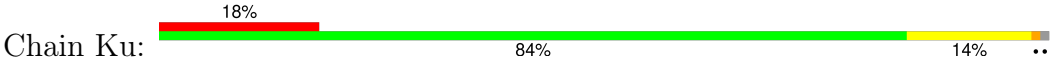
• Molecule 11: Lipoprotein

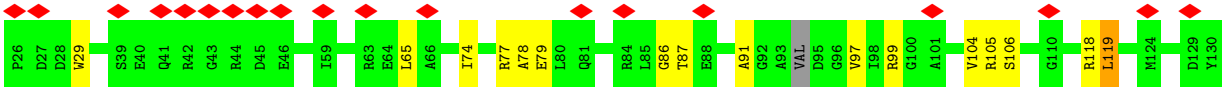
Chain Kt:



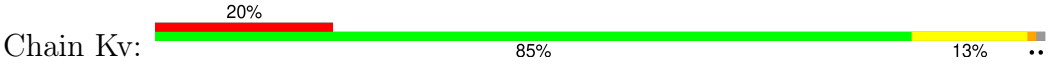
• Molecule 11: Lipoprotein

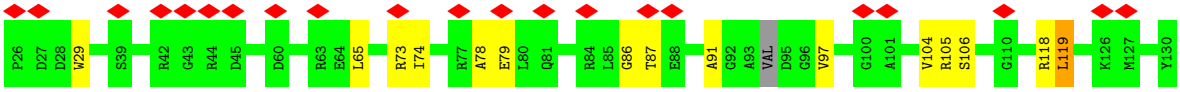
Chain Ku:



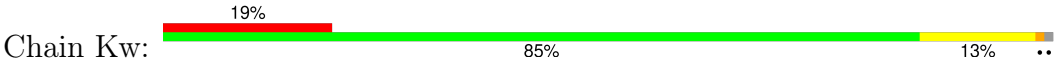


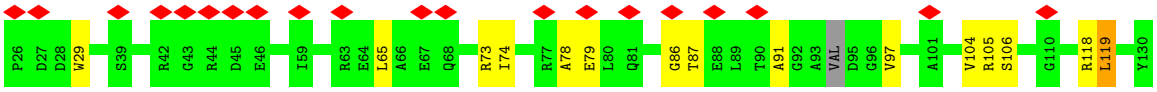
• Molecule 11: Lipoprotein



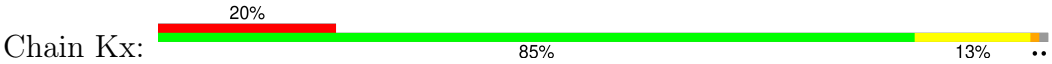


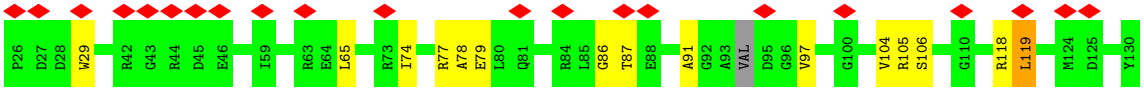
• Molecule 11: Lipoprotein



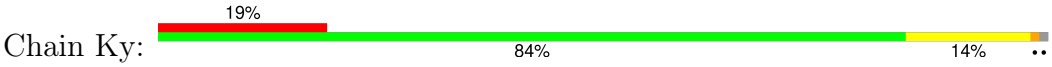


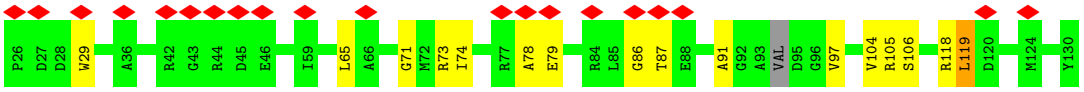
• Molecule 11: Lipoprotein



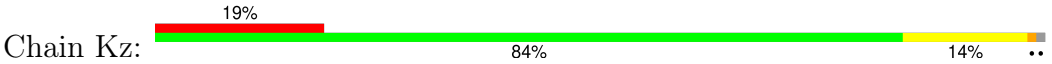


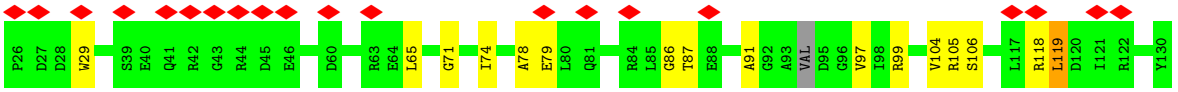
• Molecule 11: Lipoprotein



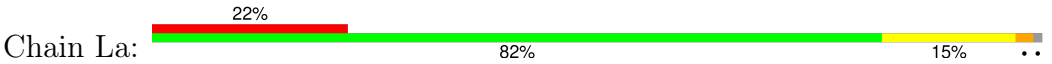


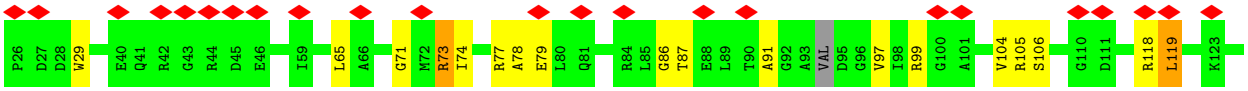
• Molecule 11: Lipoprotein





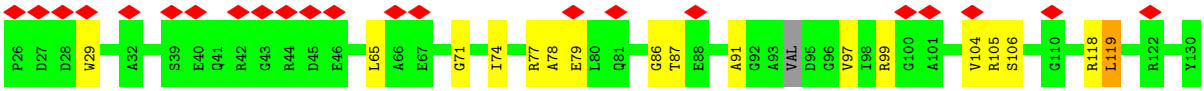
• Molecule 11: Lipoprotein





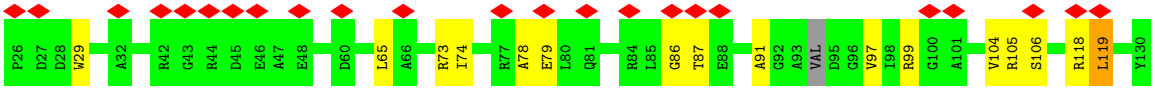
• Molecule 11: Lipoprotein

Chain Lb:



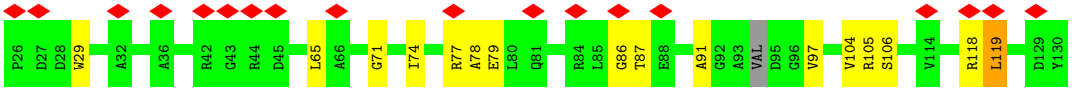
• Molecule 11: Lipoprotein

Chain Lc:



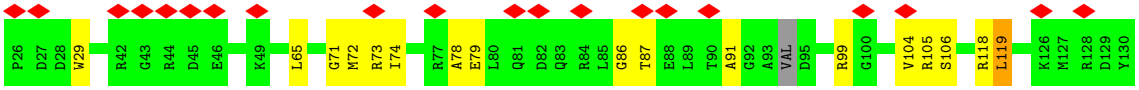
• Molecule 11: Lipoprotein

Chain Ld:



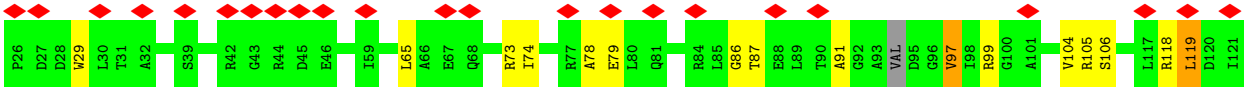
• Molecule 11: Lipoprotein

Chain Le:



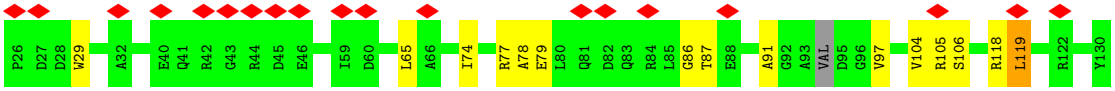
• Molecule 11: Lipoprotein

Chain Lf:



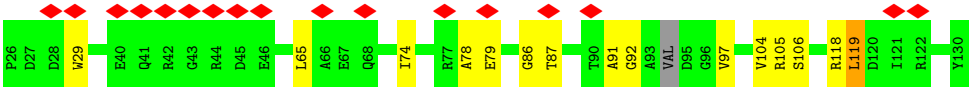
• Molecule 11: Lipoprotein

Chain Lg:



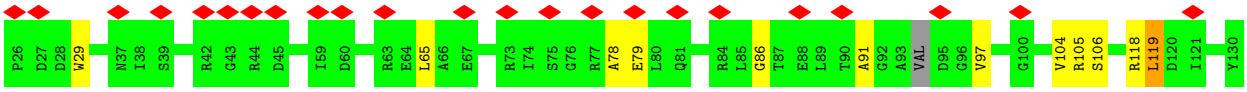
• Molecule 11: Lipoprotein

Chain Lh:



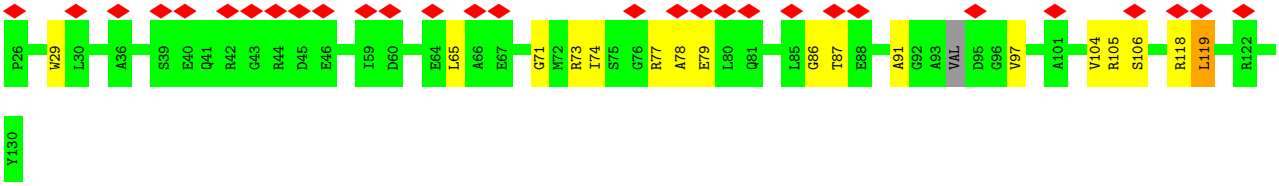
• Molecule 11: Lipoprotein

Chain Li:



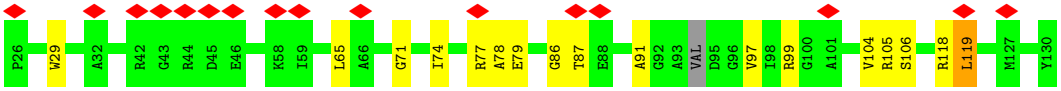
• Molecule 11: Lipoprotein

Chain Lj:



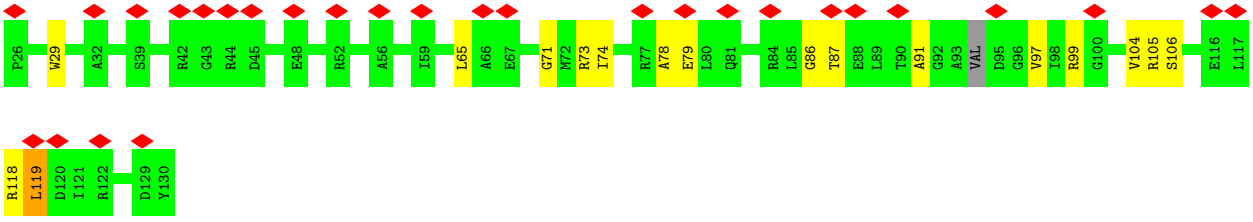
• Molecule 11: Lipoprotein

Chain Lk:



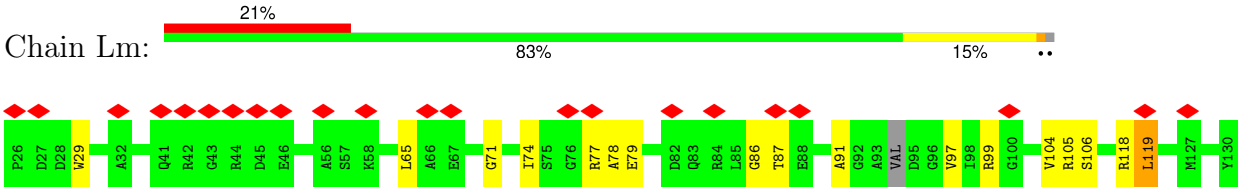
• Molecule 11: Lipoprotein

Chain Ll:



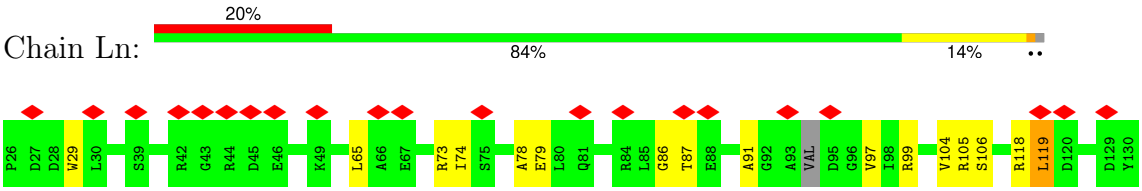
• Molecule 11: Lipoprotein

Chain Lm:



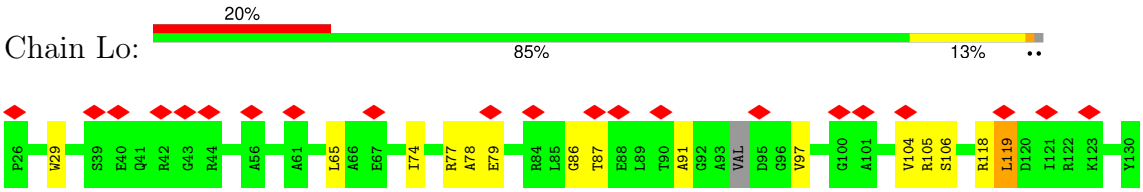
• Molecule 11: Lipoprotein

Chain Ln:



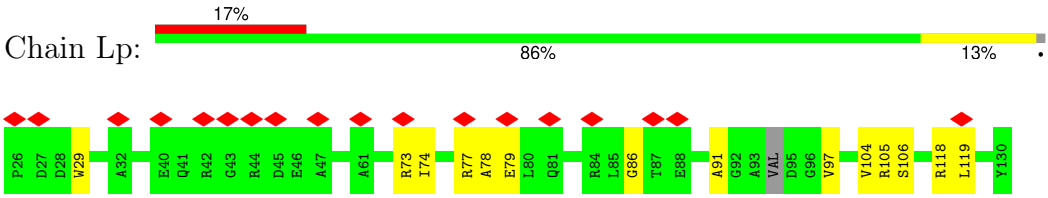
• Molecule 11: Lipoprotein

Chain Lo:



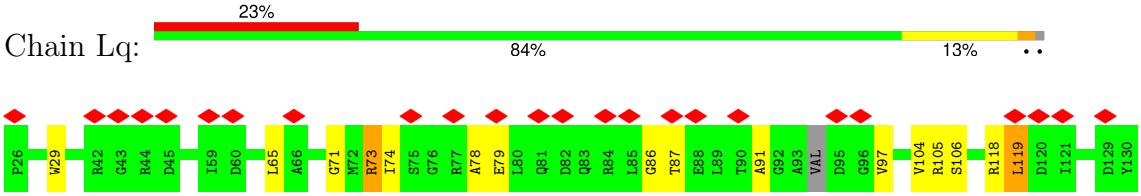
• Molecule 11: Lipoprotein

Chain Lp:



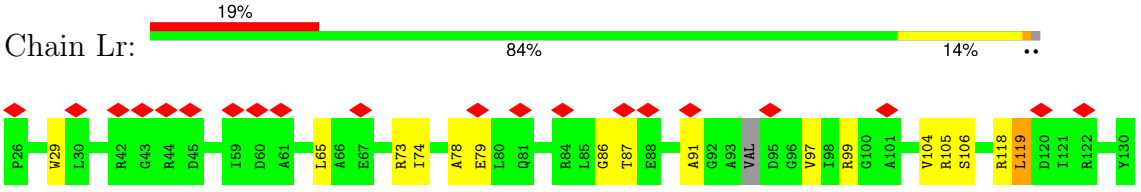
• Molecule 11: Lipoprotein

Chain Lq:



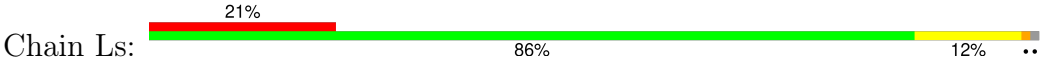
• Molecule 11: Lipoprotein

Chain Lr:



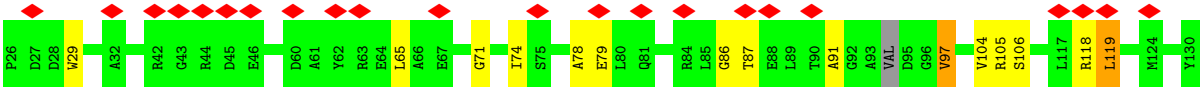
• Molecule 11: Lipoprotein

Chain Ls:



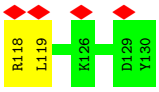
• Molecule 11: Lipoprotein

Chain Lt:



• Molecule 11: Lipoprotein

Chain Lu:

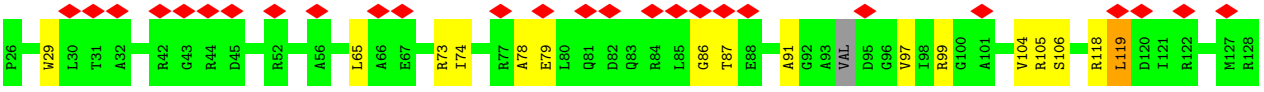


• Molecule 11: Lipoprotein

Chain Lv:

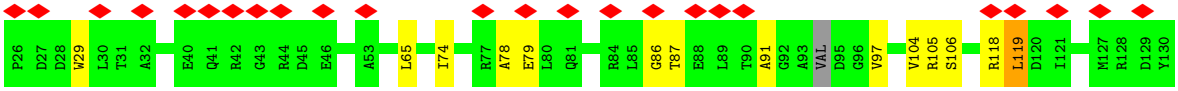
• Molecule 11: Lipoprotein

Chain Lw:

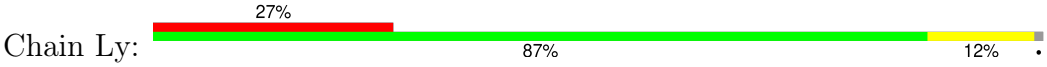


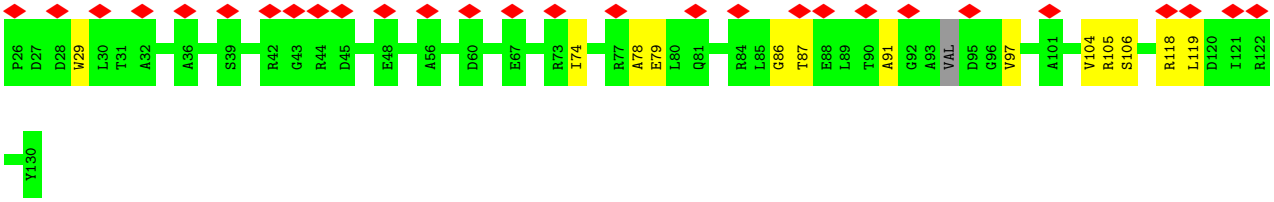
• Molecule 11: Lipoprotein

Chain Lx:

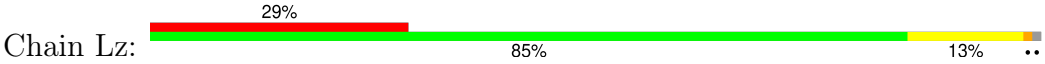


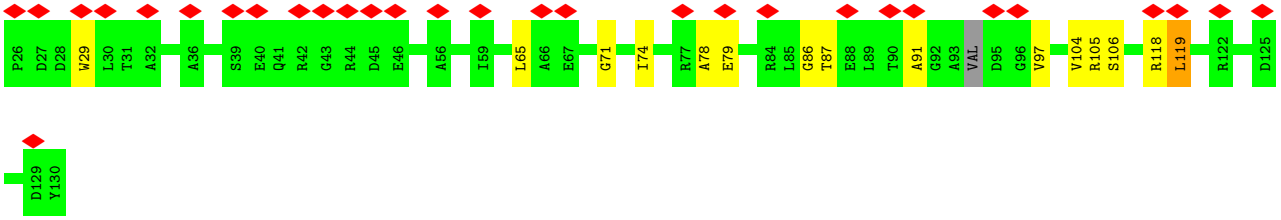
• Molecule 11: Lipoprotein



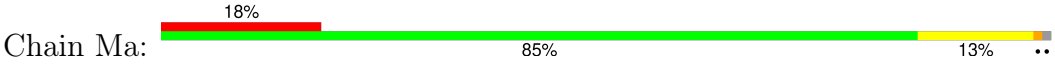


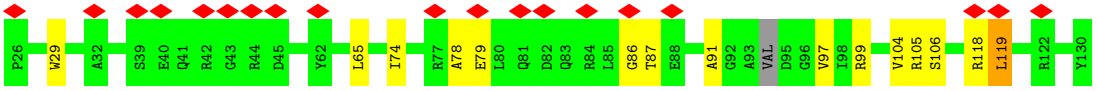
• Molecule 11: Lipoprotein



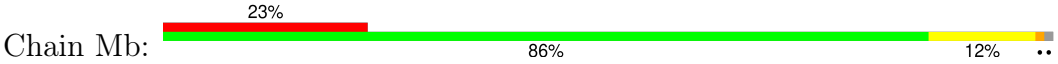


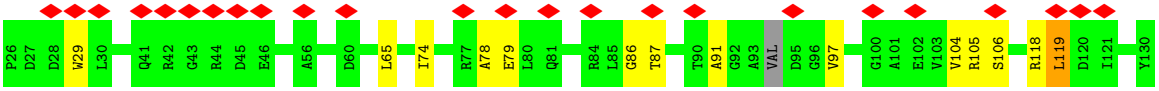
• Molecule 11: Lipoprotein



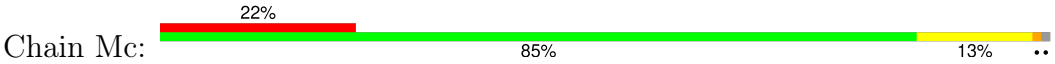


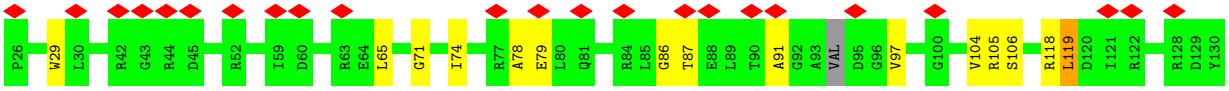
• Molecule 11: Lipoprotein





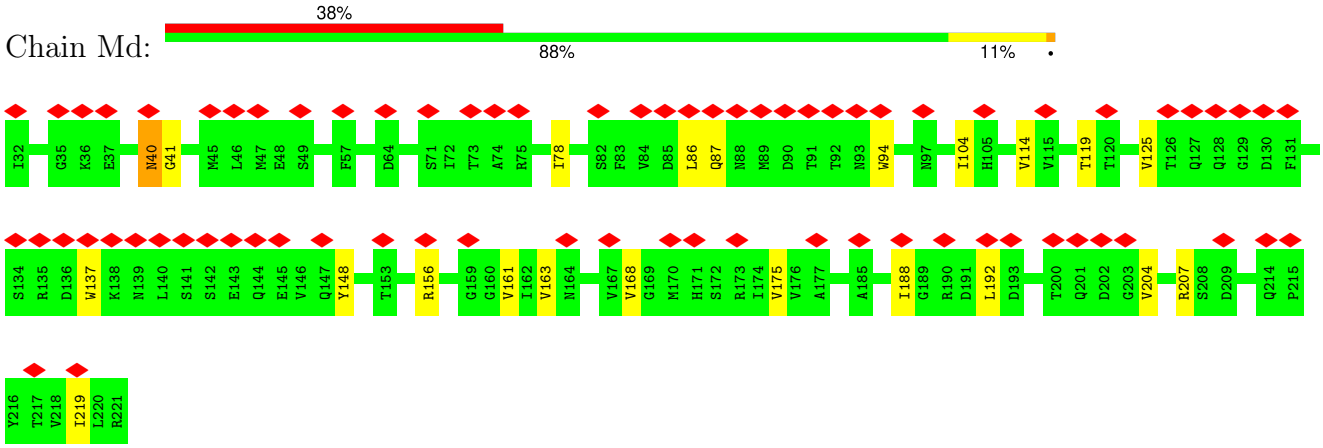
• Molecule 11: Lipoprotein





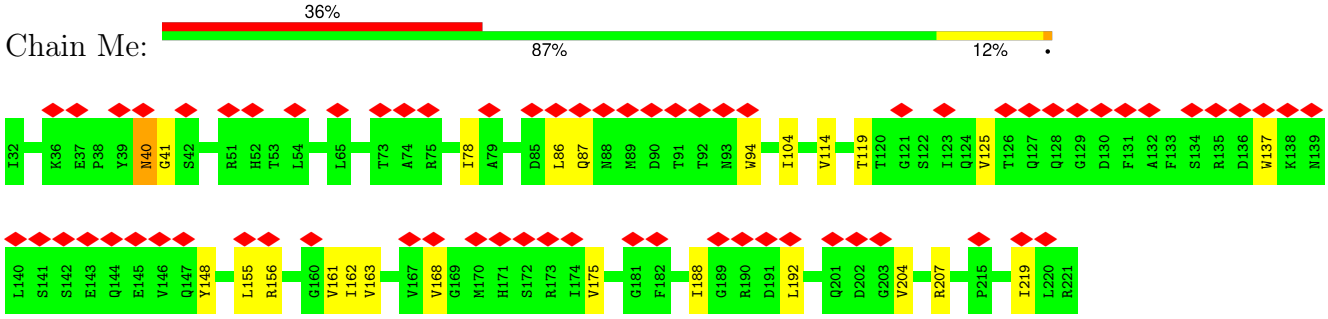
• Molecule 12: FlgO domain-containing protein

Chain Md:



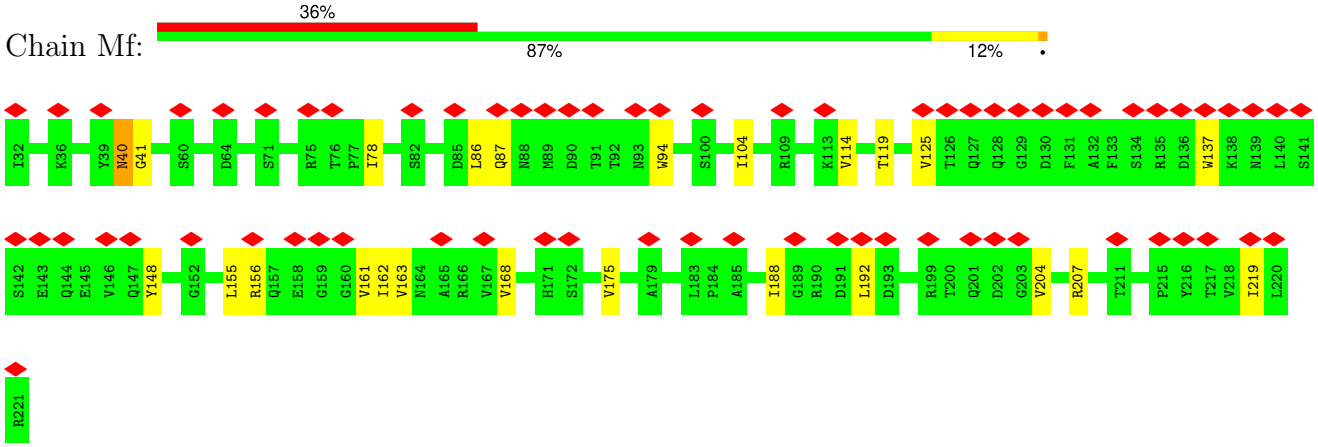
• Molecule 12: FlgO domain-containing protein

Chain Me:



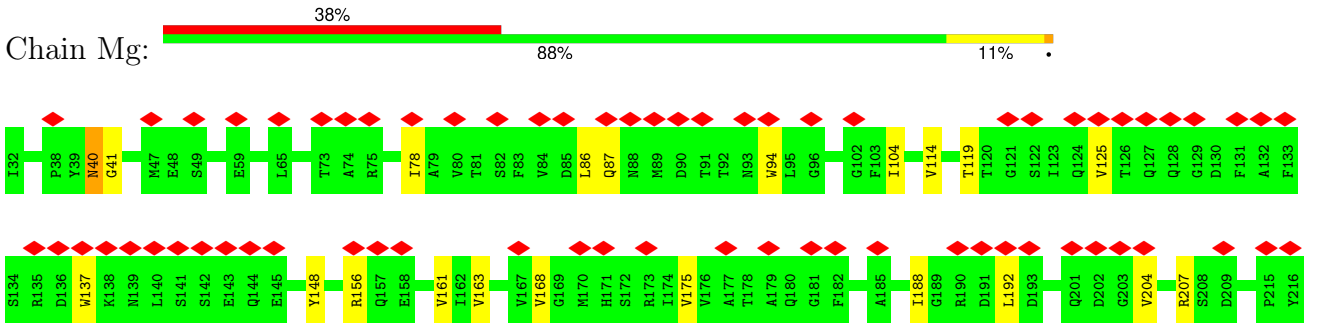
• Molecule 12: FlgO domain-containing protein

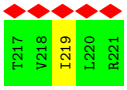
Chain Mf:



• Molecule 12: FlgO domain-containing protein

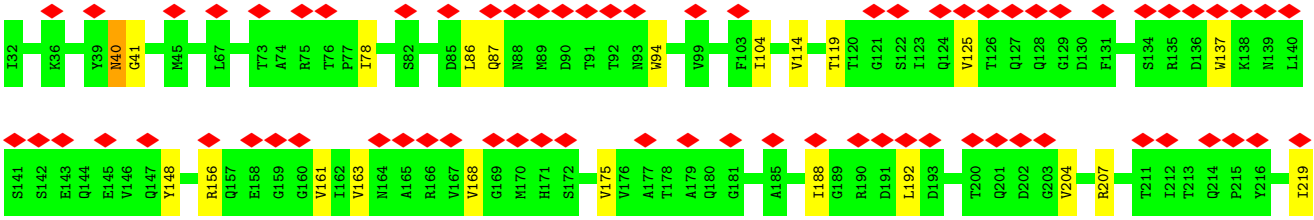
Chain Mg:





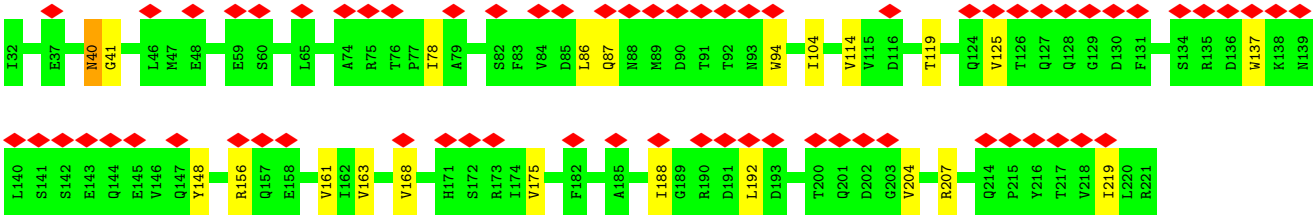
• Molecule 12: FlgO domain-containing protein

Chain Mh:



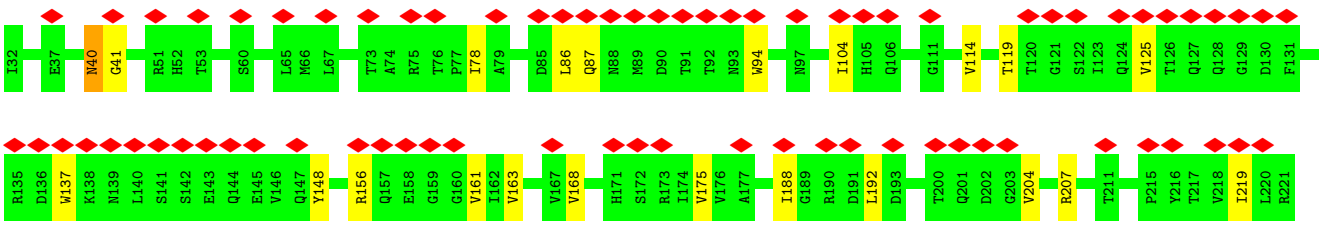
• Molecule 12: FlgO domain-containing protein

Chain Mi:



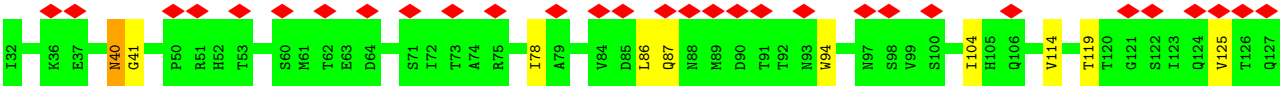
• Molecule 12: FlgO domain-containing protein

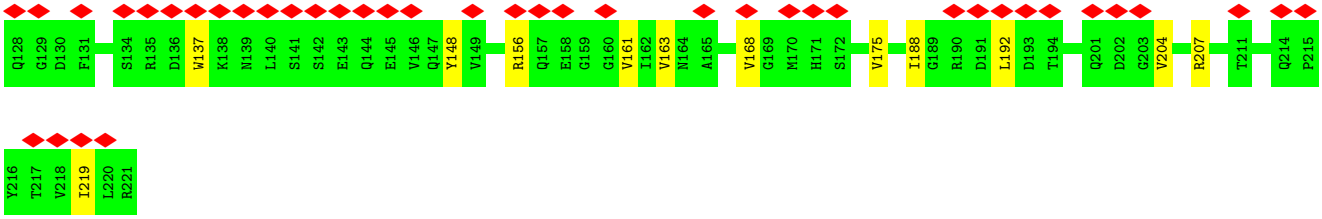
Chain Mj:



• Molecule 12: FlgO domain-containing protein

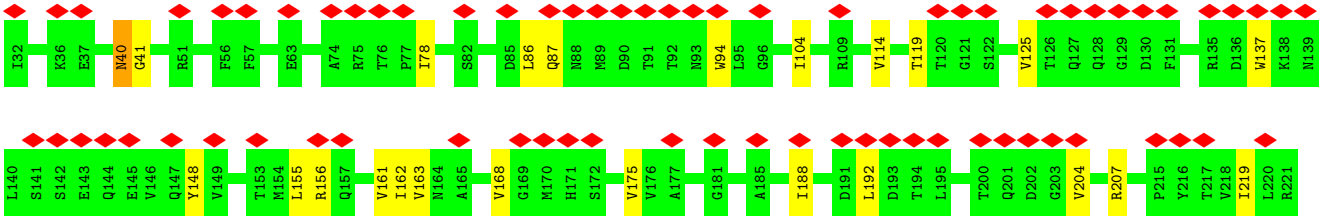
Chain Mk:





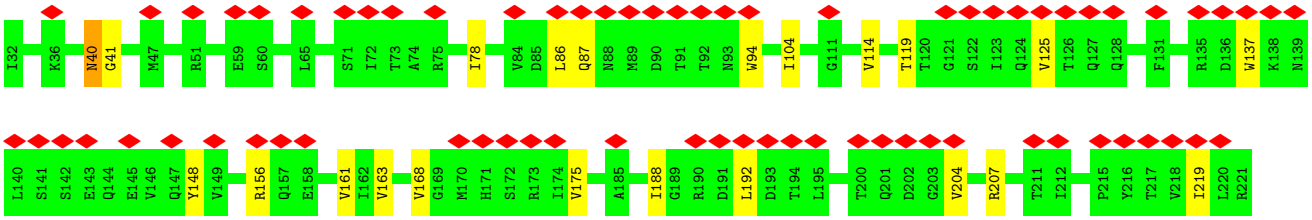
• Molecule 12: FlgO domain-containing protein

Chain Ml:



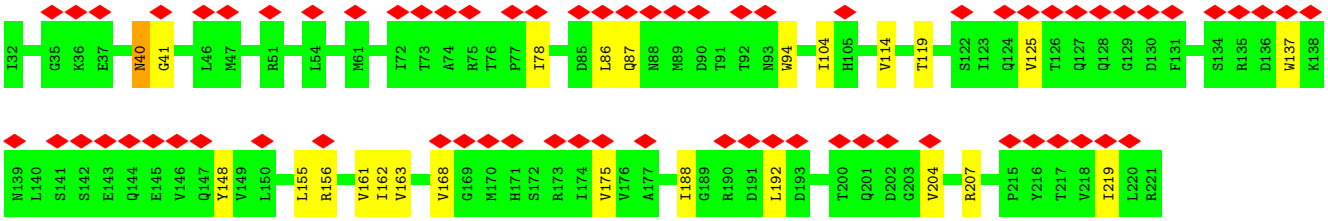
• Molecule 12: FlgO domain-containing protein

Chain Mm:



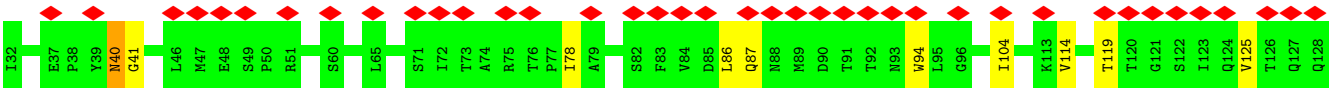
• Molecule 12: FlgO domain-containing protein

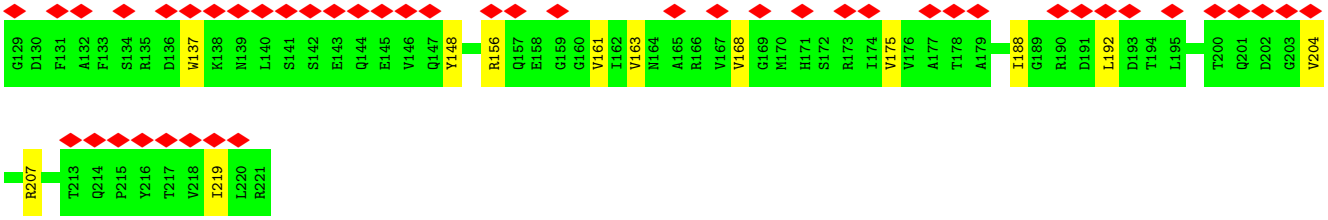
Chain Mn:



• Molecule 12: FlgO domain-containing protein

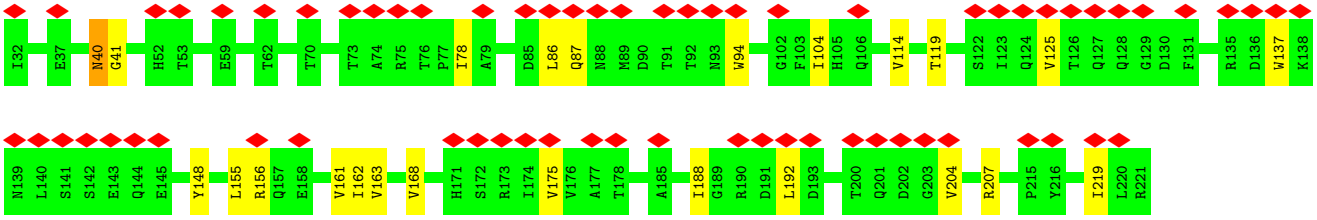
Chain Mo:





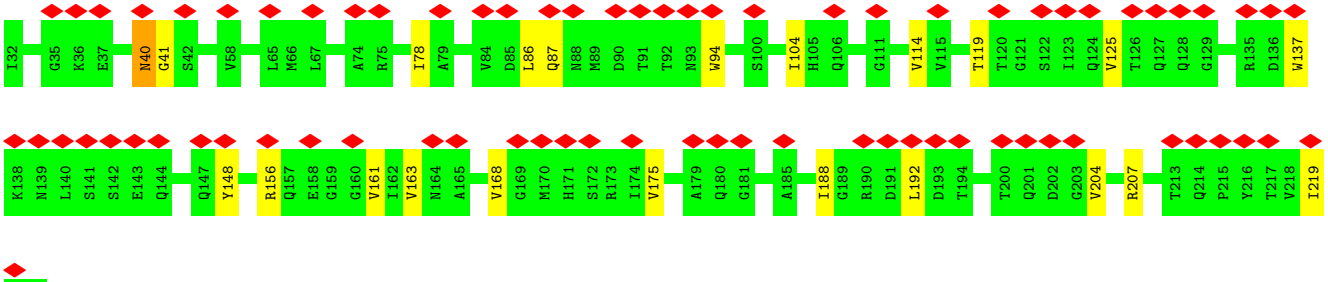
• Molecule 12: FlgO domain-containing protein

Chain Mp:



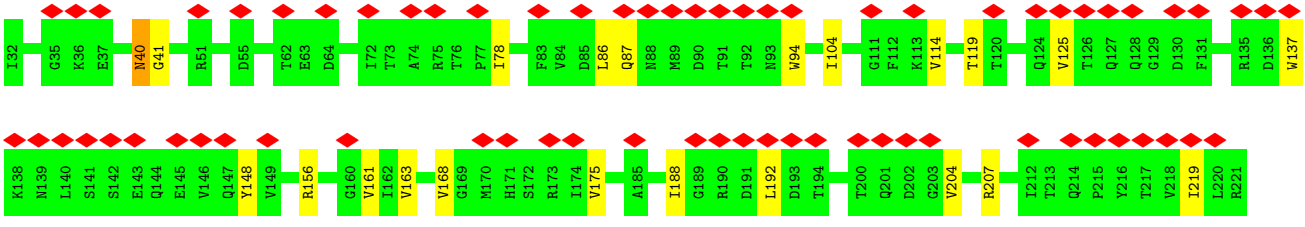
• Molecule 12: FlgO domain-containing protein

Chain Mq:



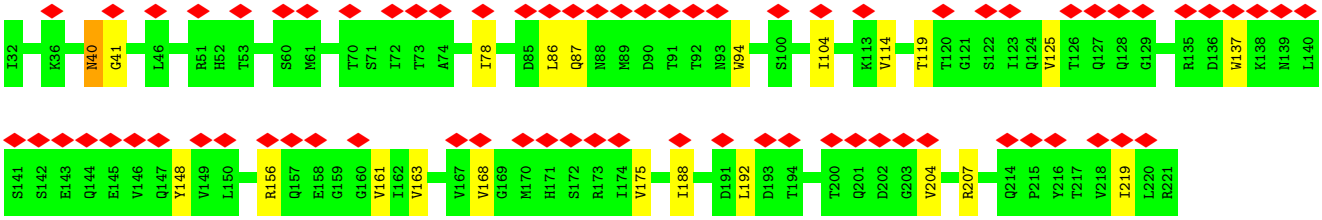
• Molecule 12: FlgO domain-containing protein

Chain Mr:

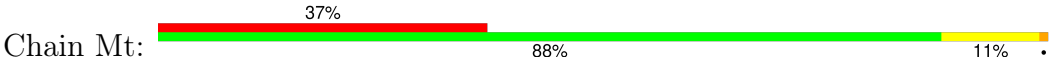


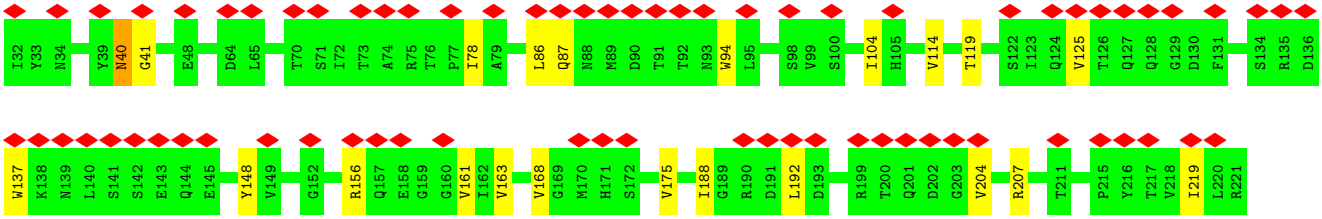
• Molecule 12: FlgO domain-containing protein

Chain Ms:

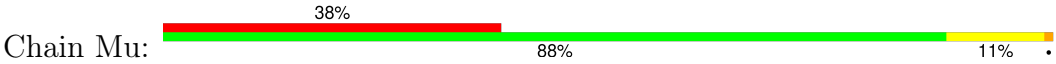


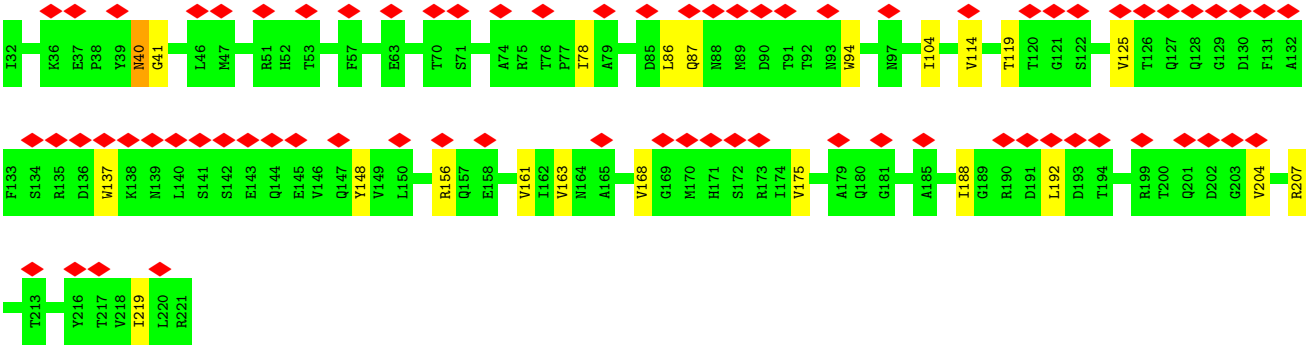
• Molecule 12: FlgO domain-containing protein



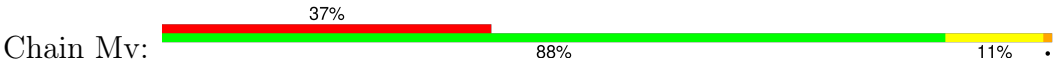


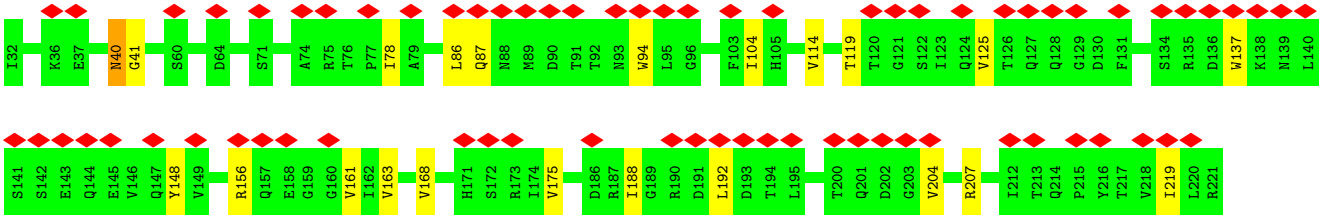
• Molecule 12: FlgO domain-containing protein



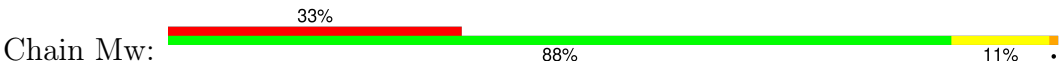


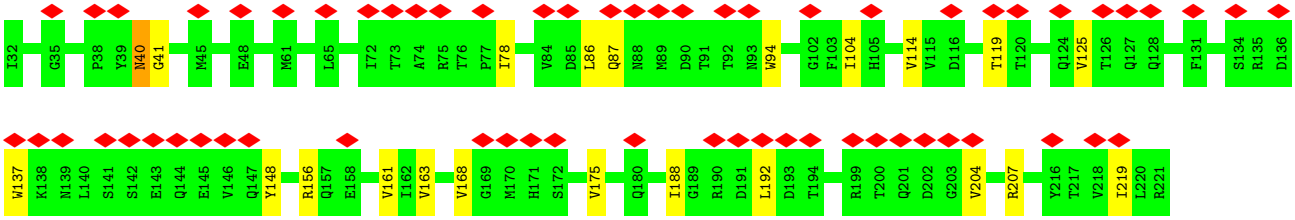
• Molecule 12: FlgO domain-containing protein





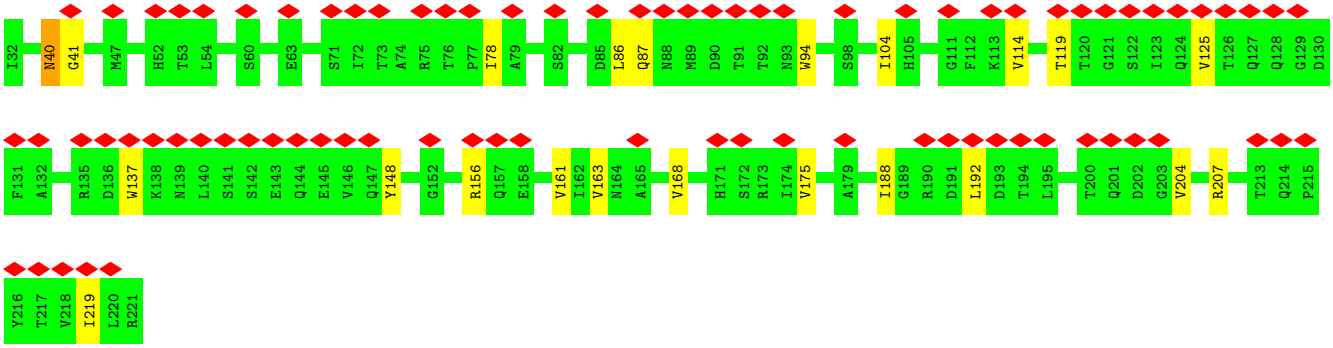
• Molecule 12: FlgO domain-containing protein





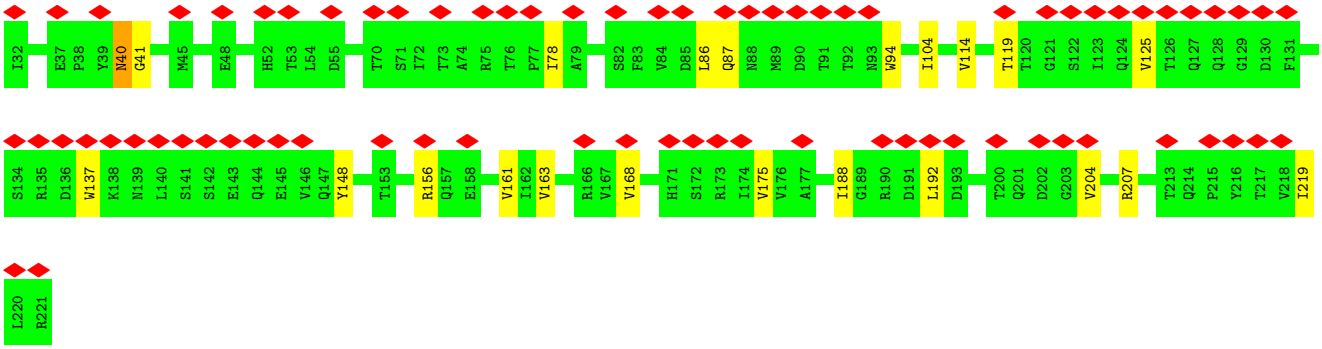
• Molecule 12: FlgO domain-containing protein

Chain Mx:



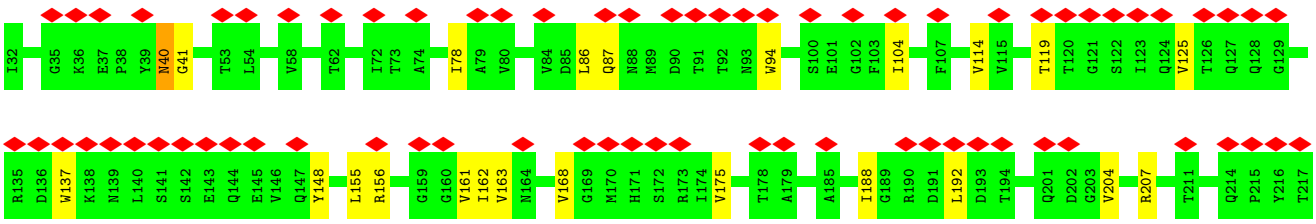
• Molecule 12: FlgO domain-containing protein

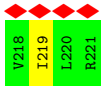
Chain My:



• Molecule 12: FlgO domain-containing protein

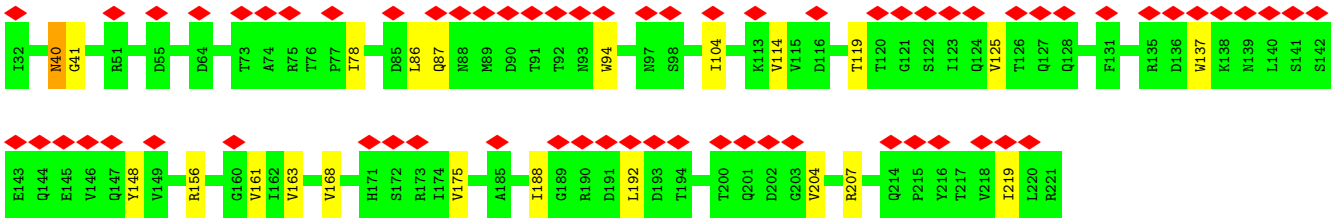
Chain Mz:





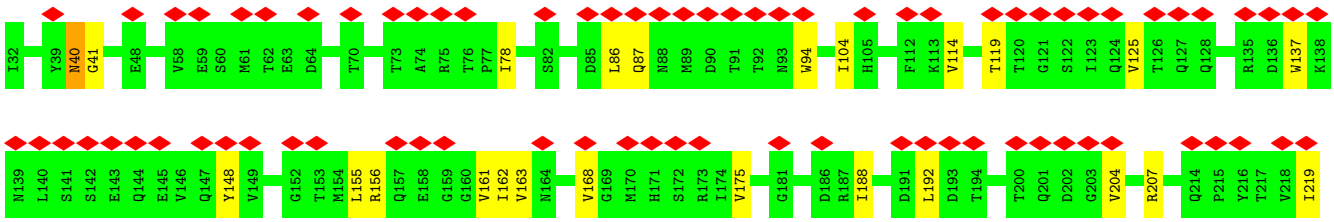
• Molecule 12: FlgO domain-containing protein

Chain Na:



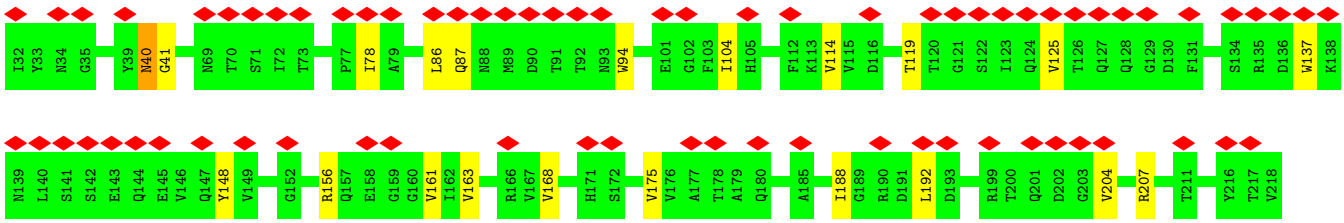
• Molecule 12: FlgO domain-containing protein

Chain Nb:



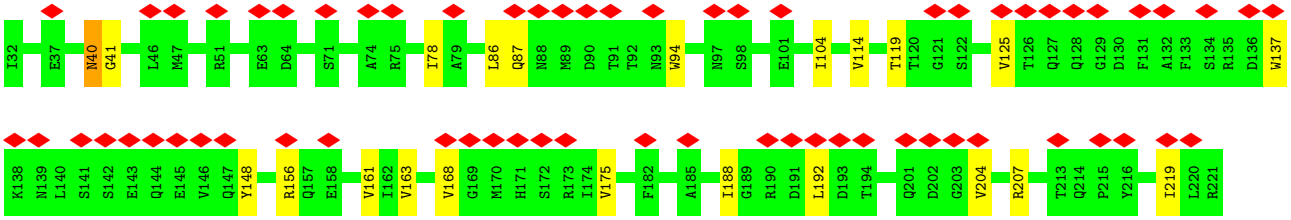
• Molecule 12: FlgO domain-containing protein

Chain Nc:



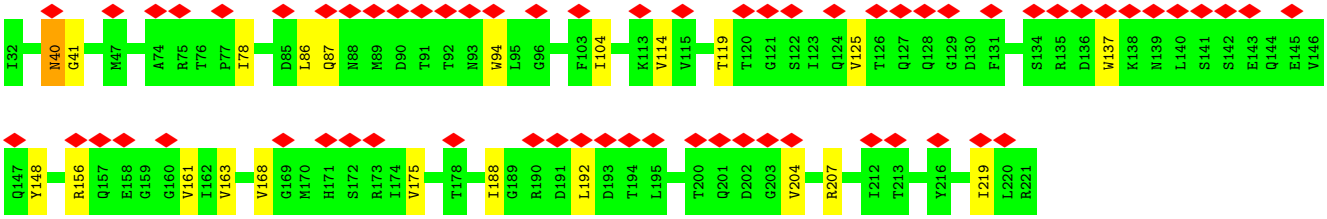
• Molecule 12: FlgO domain-containing protein

Chain Nd:



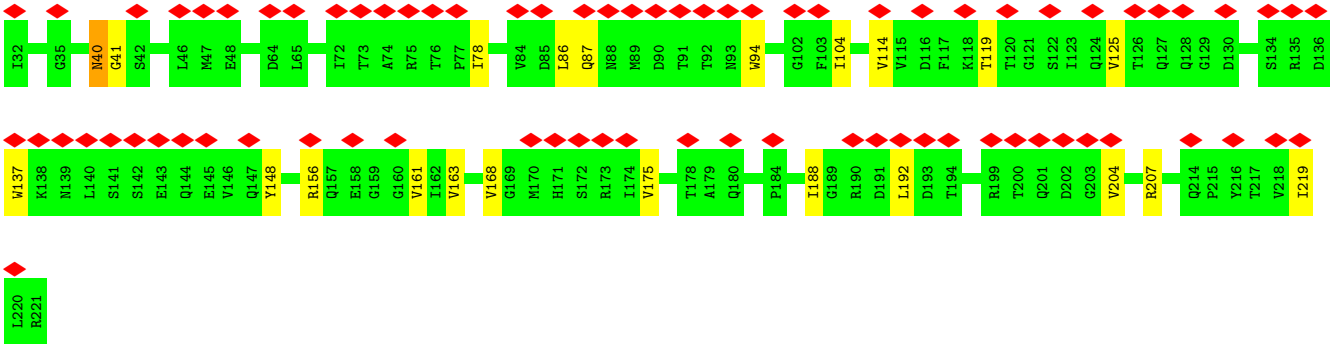
• Molecule 12: FlgO domain-containing protein

Chain Ne:



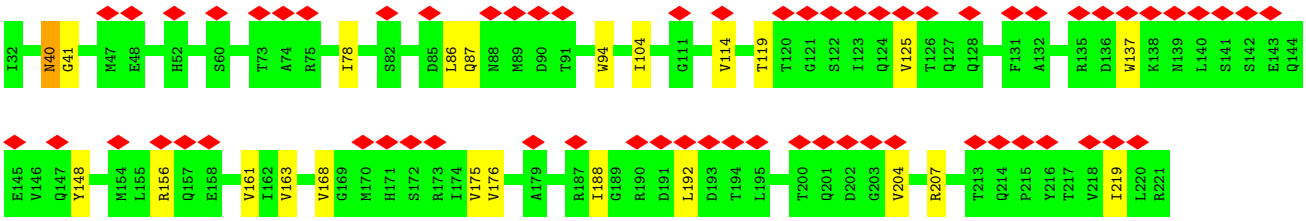
• Molecule 12: FlgO domain-containing protein

Chain Nf:



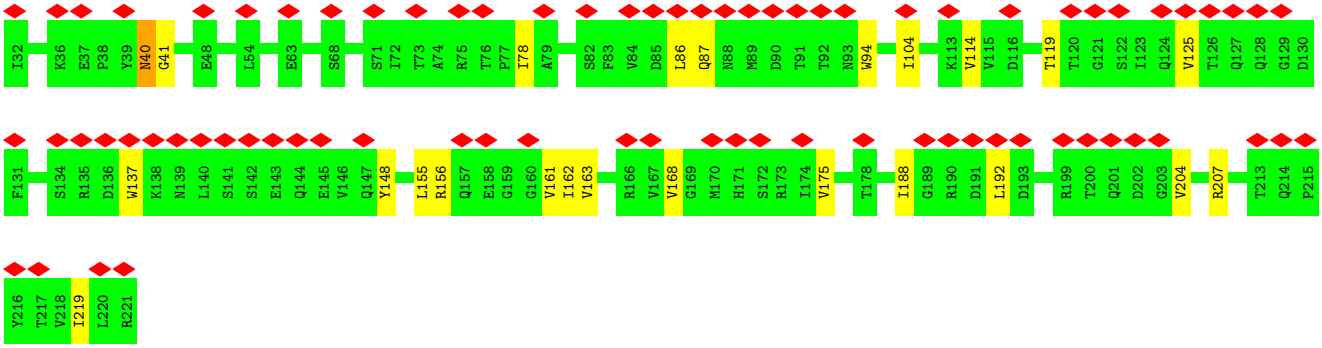
• Molecule 12: FlgO domain-containing protein

Chain Ng:



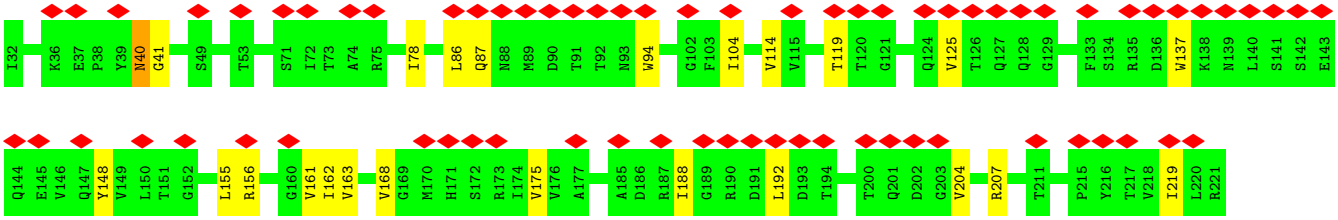
• Molecule 12: FlgO domain-containing protein

Chain Nh:



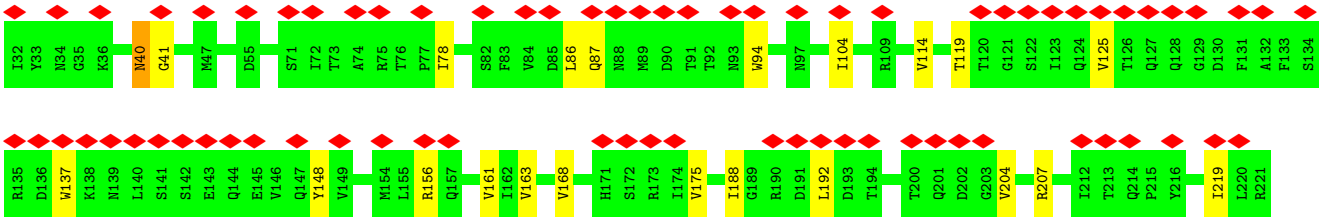
• Molecule 12: FlgO domain-containing protein

Chain Ni:



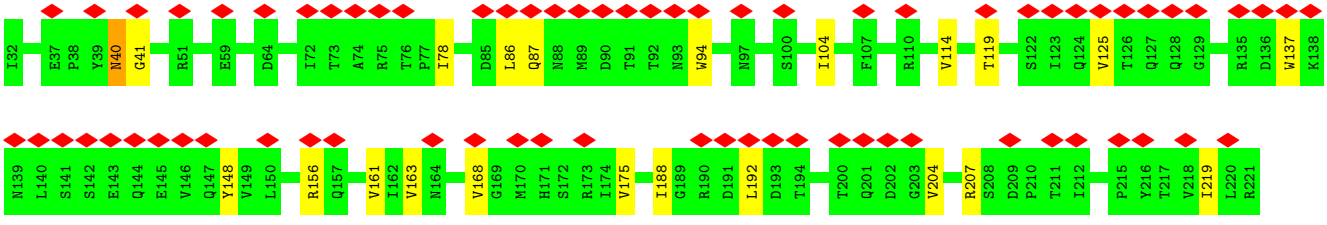
• Molecule 12: FlgO domain-containing protein

Chain Nj:



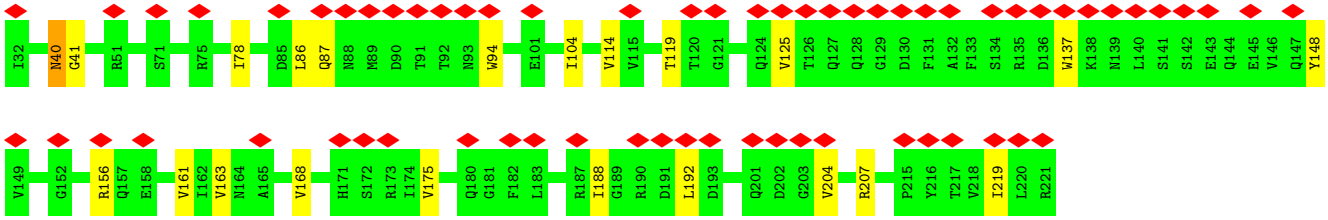
• Molecule 12: FlgO domain-containing protein

Chain Nk:

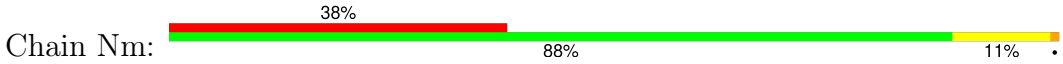


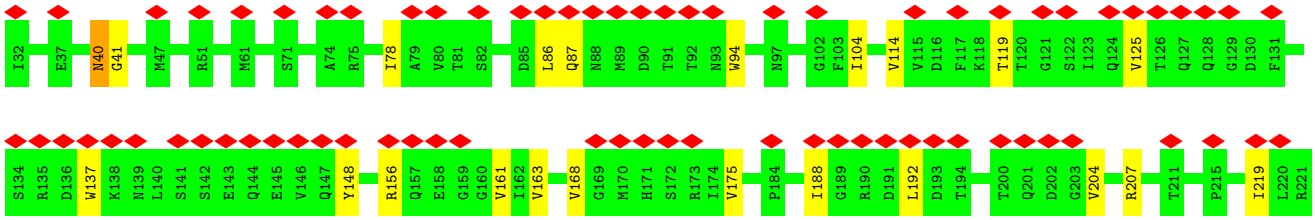
• Molecule 12: FlgO domain-containing protein

Chain Nl:

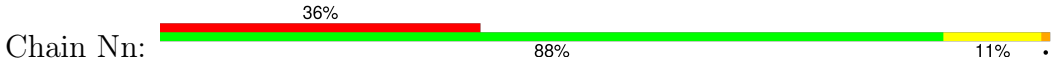


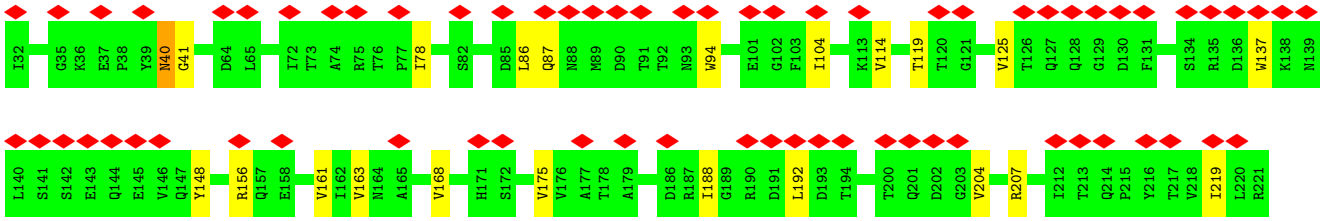
• Molecule 12: FlgO domain-containing protein



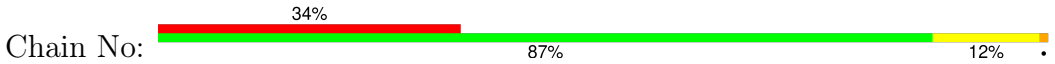


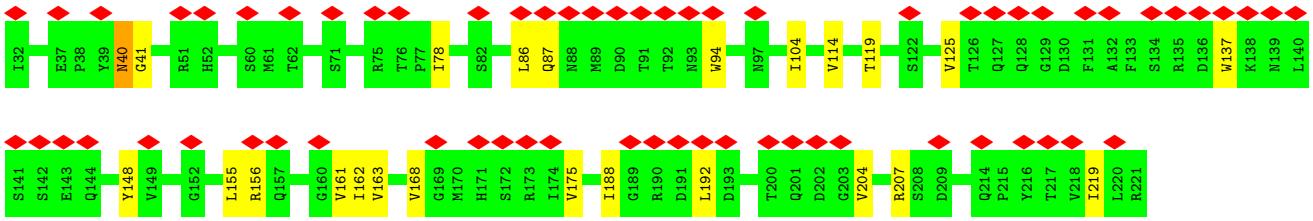
• Molecule 12: FlgO domain-containing protein



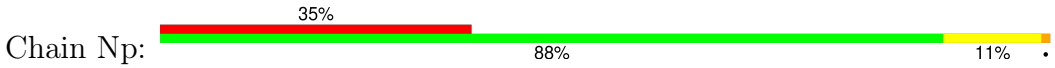


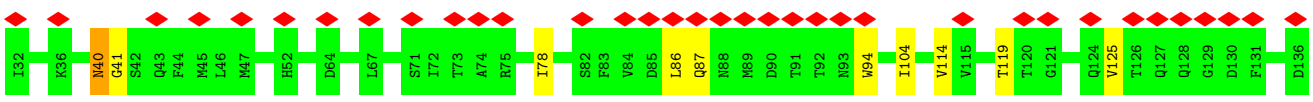
• Molecule 12: FlgO domain-containing protein

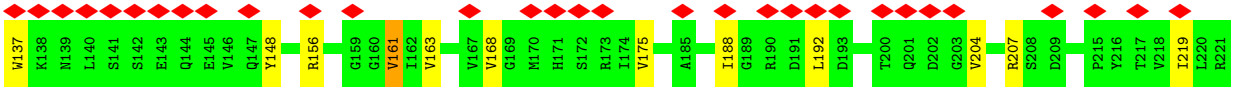




• Molecule 12: FlgO domain-containing protein

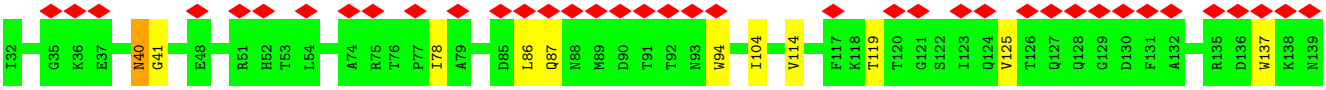


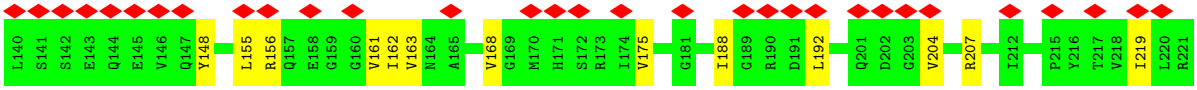




• Molecule 12: FlgO domain-containing protein

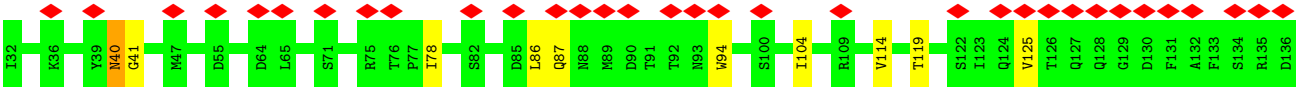
Chain Nq:

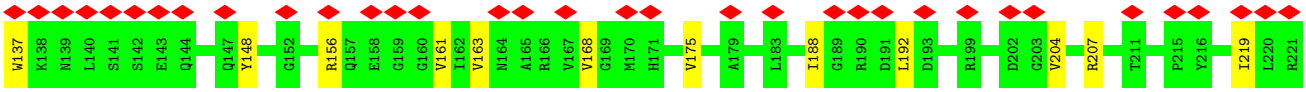




• Molecule 12: FlgO domain-containing protein

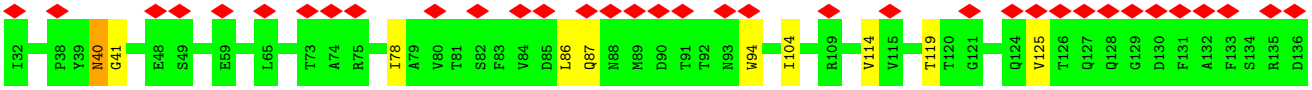
Chain Nr:

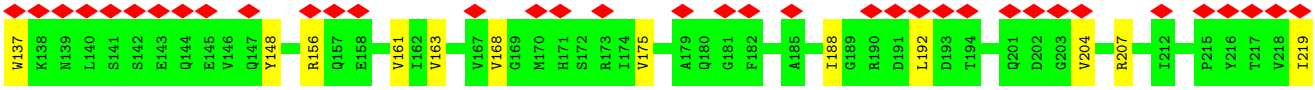




• Molecule 12: FlgO domain-containing protein

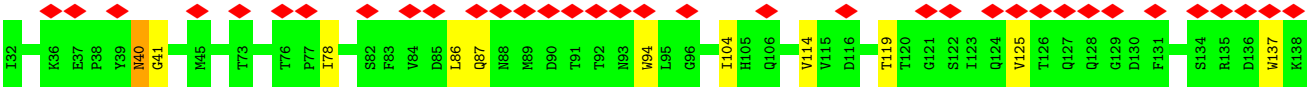
Chain Ns:





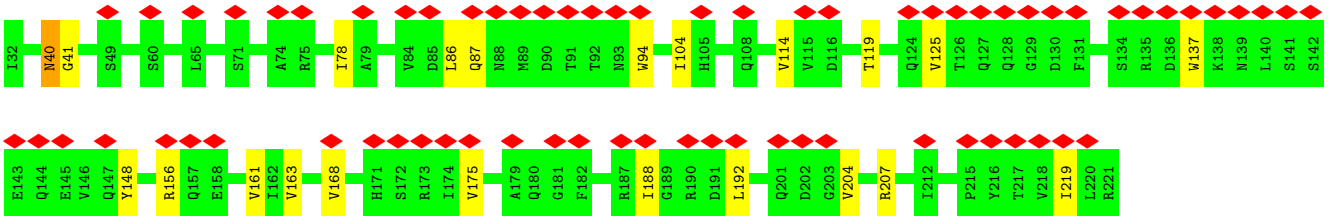
• Molecule 12: FlgO domain-containing protein

Chain Nt:



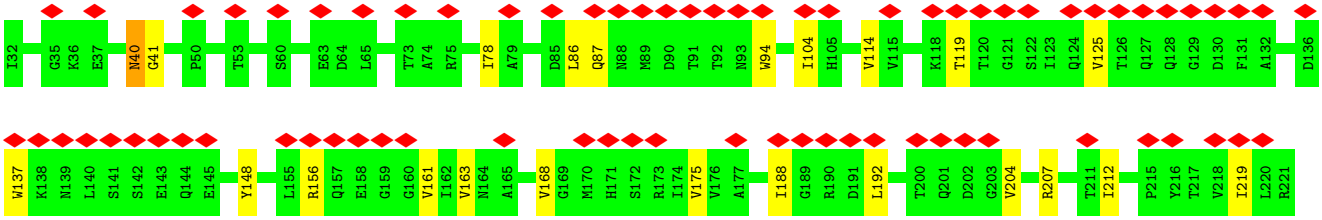
• Molecule 12: FlgO domain-containing protein

Chain Nu:



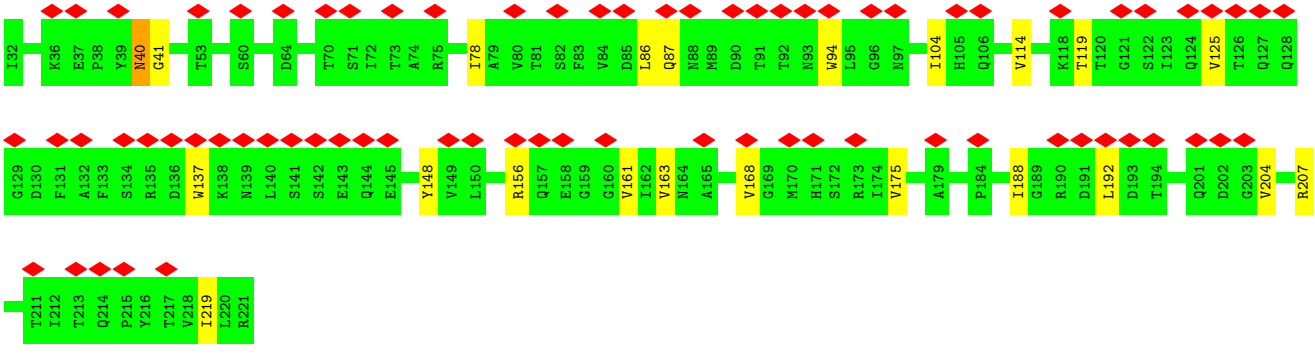
• Molecule 12: FlgO domain-containing protein

Chain Nv:



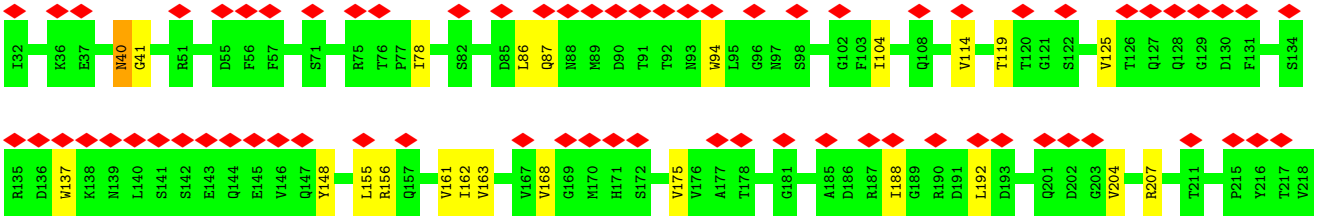
• Molecule 12: FlgO domain-containing protein

Chain Nw:



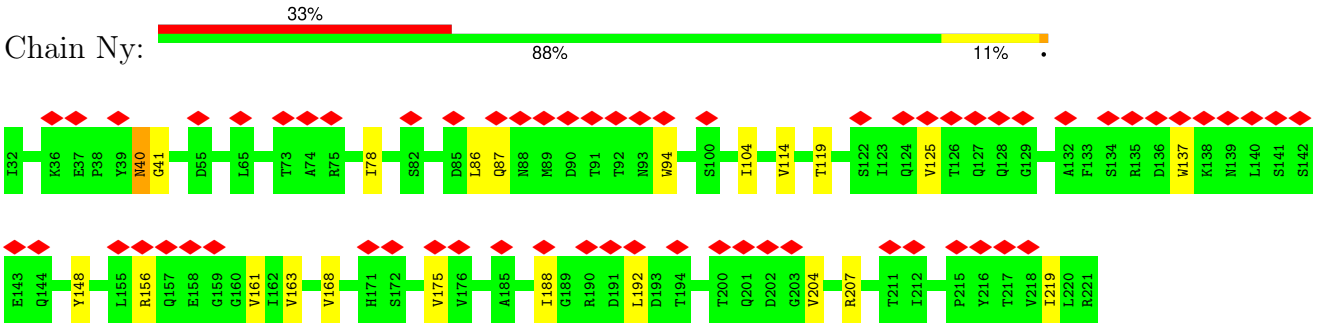
• Molecule 12: FlgO domain-containing protein

Chain Nx:



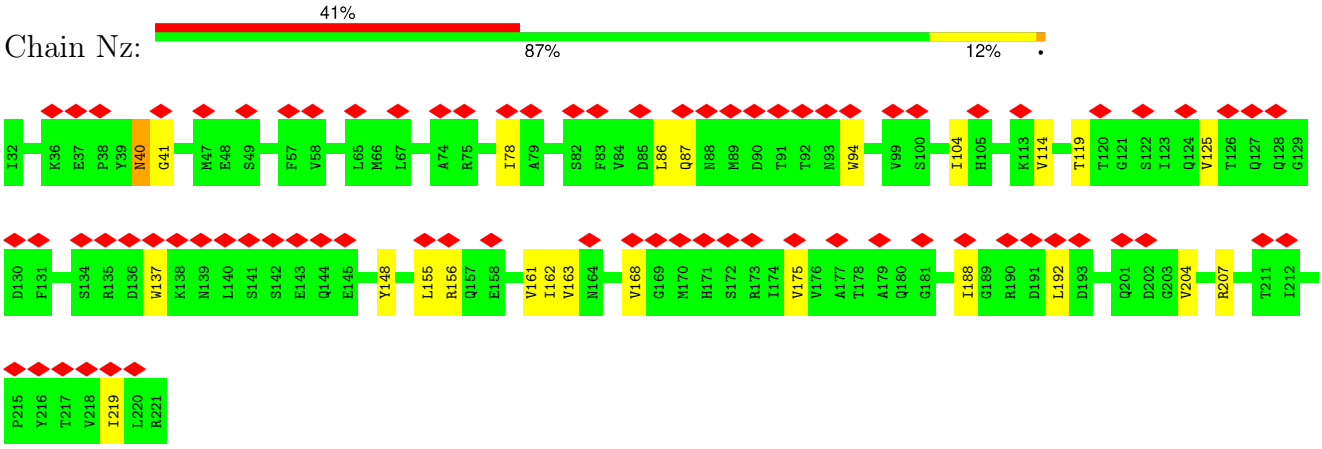
• Molecule 12: FlgO domain-containing protein

Chain Ny:



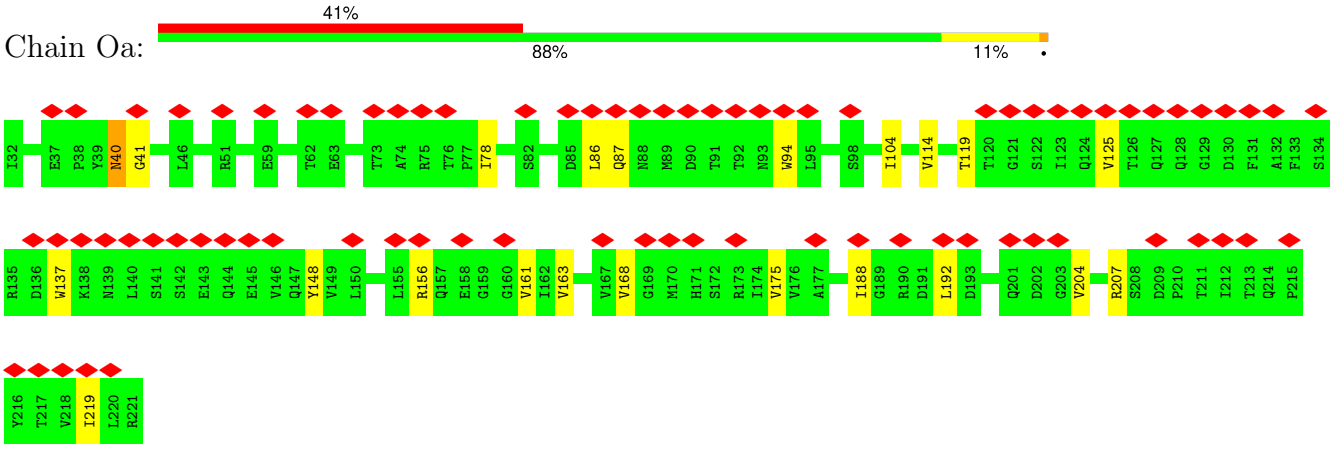
• Molecule 12: FlgO domain-containing protein

Chain Nz:



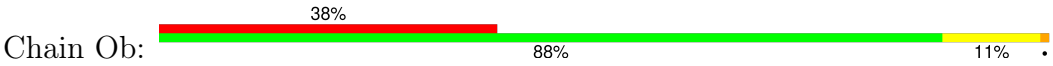
• Molecule 12: FlgO domain-containing protein

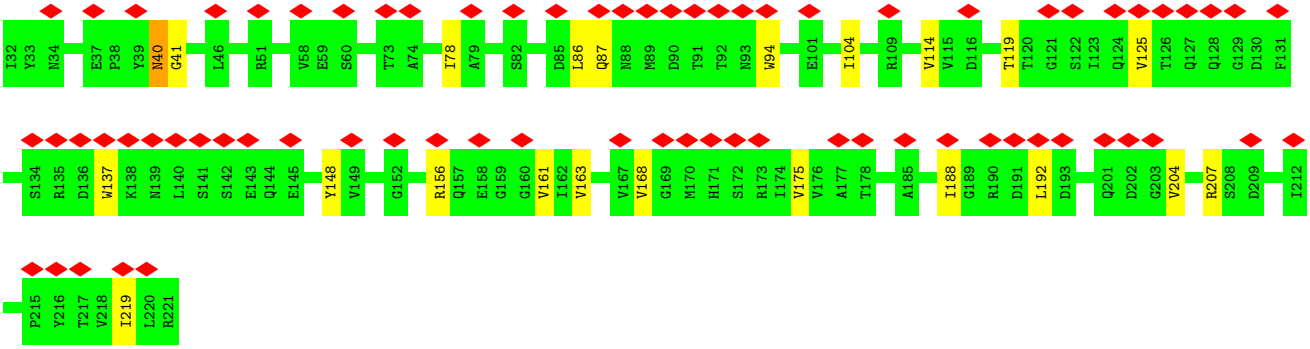
Chain Oa:



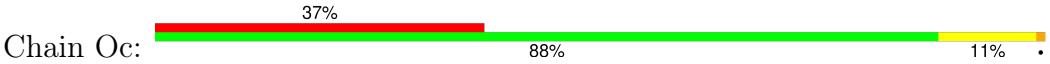
• Molecule 12: FlgO domain-containing protein

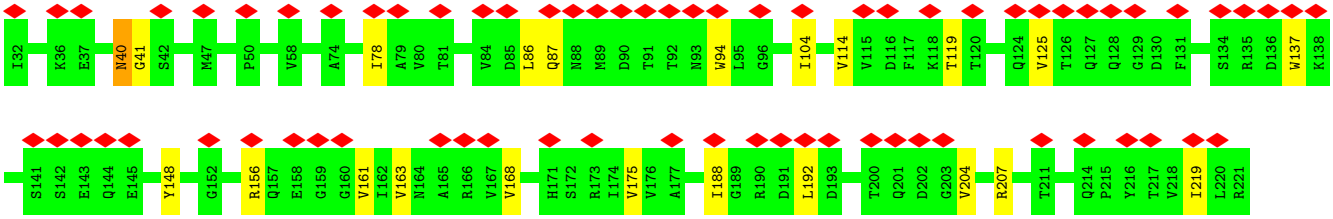
Chain Ob:



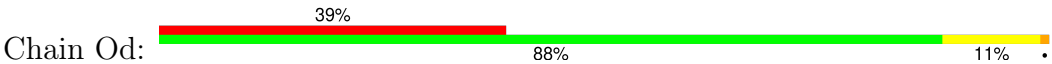


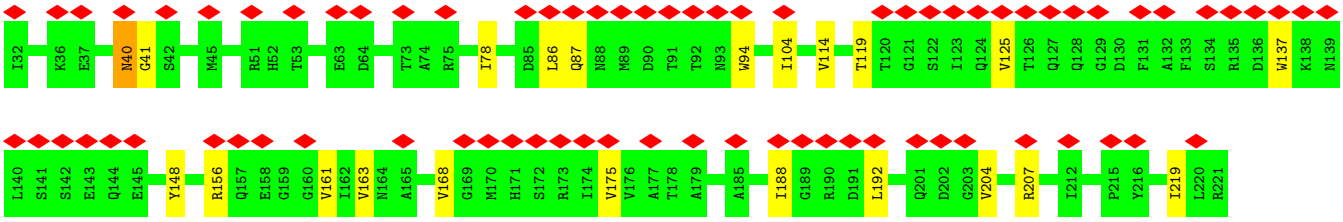
• Molecule 12: FlgO domain-containing protein



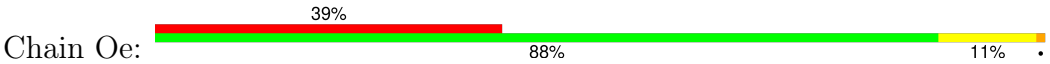


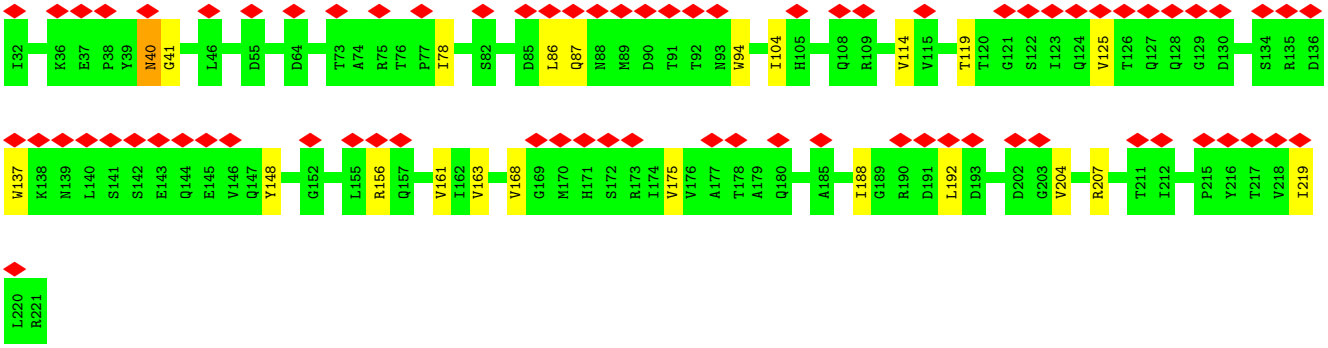
• Molecule 12: FlgO domain-containing protein





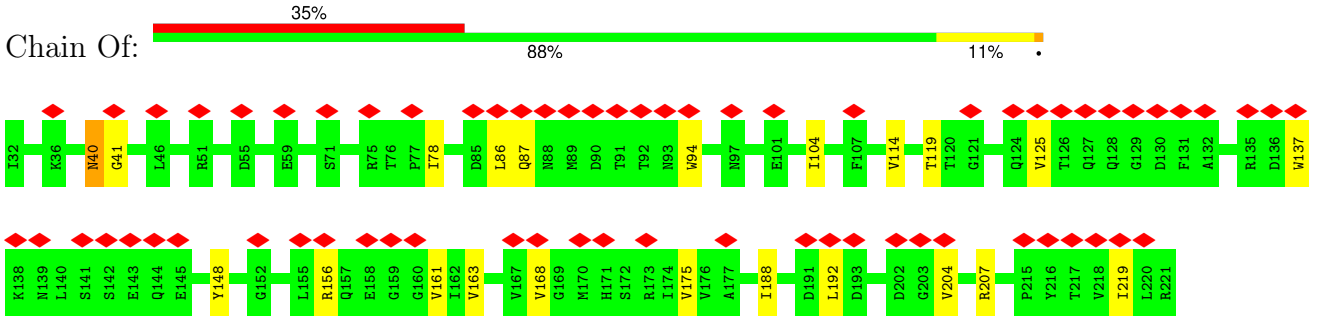
• Molecule 12: FlgO domain-containing protein





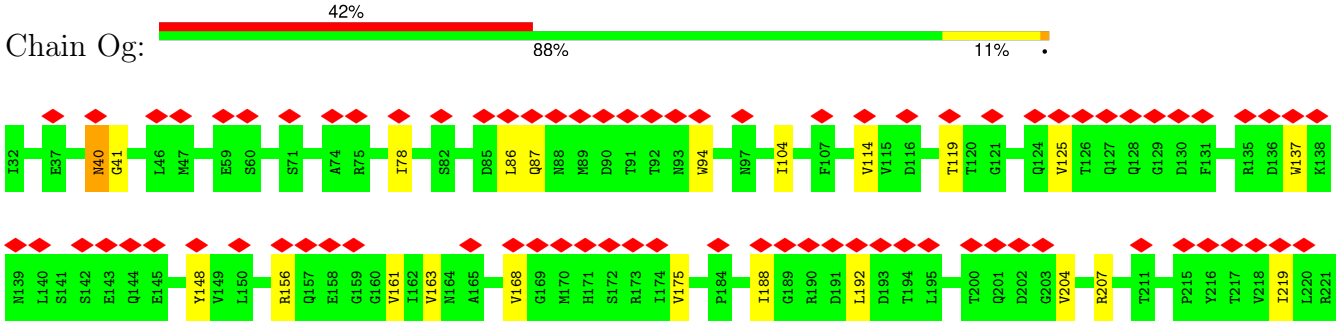
• Molecule 12: FlgO domain-containing protein

Chain Of:



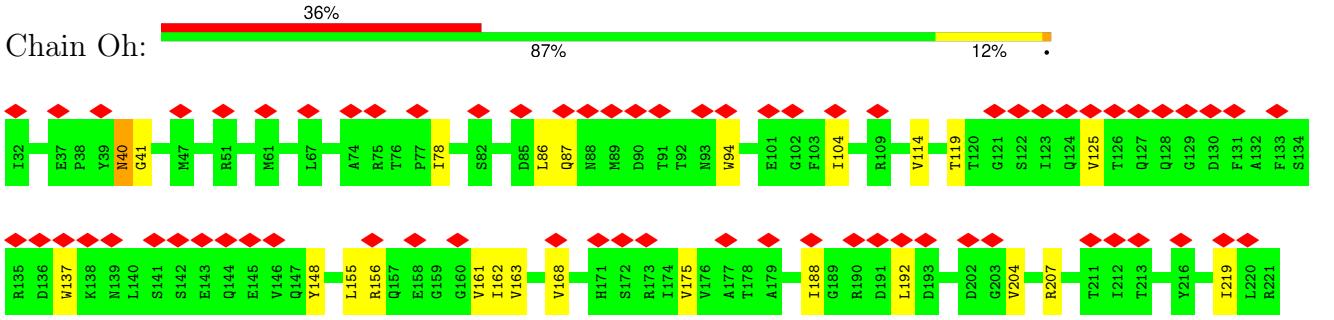
• Molecule 12: FlgO domain-containing protein

Chain Og:



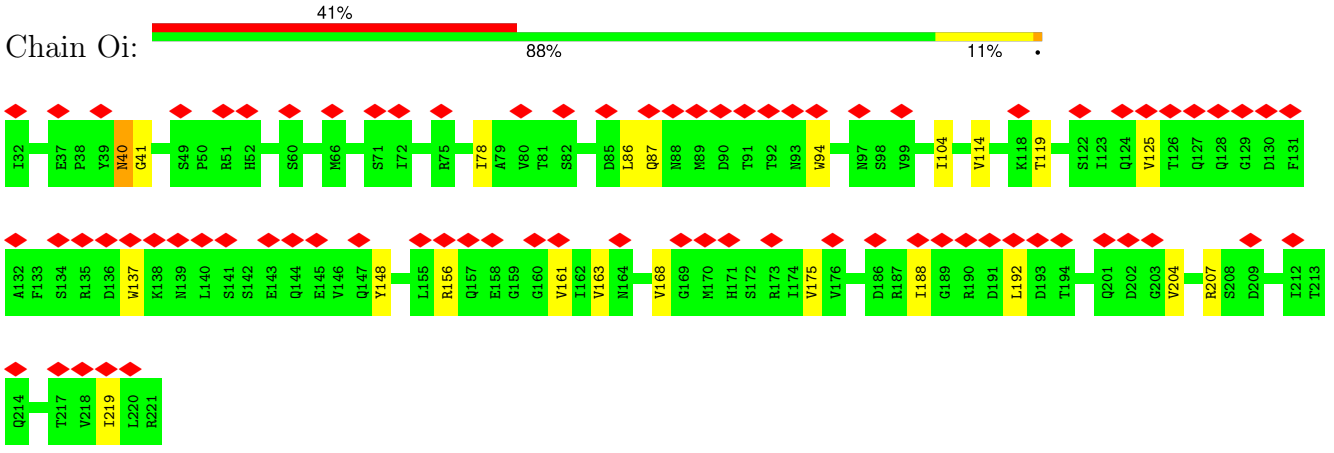
• Molecule 12: FlgO domain-containing protein

Chain Oh:



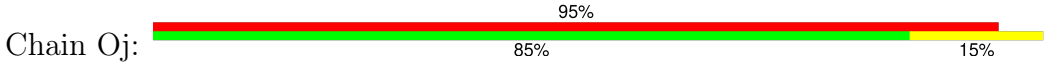
• Molecule 12: FlgO domain-containing protein

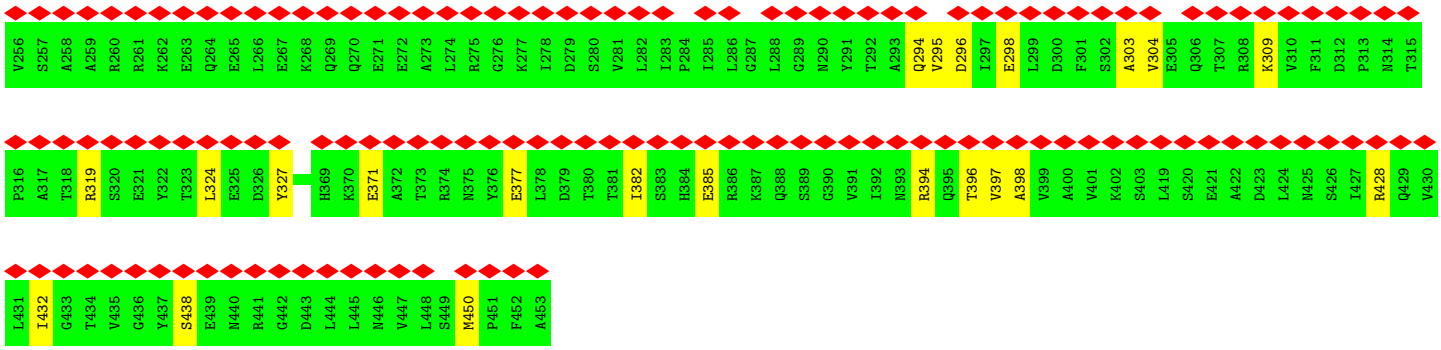
Chain Oi:



• Molecule 13: FliF

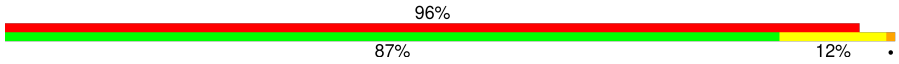
Chain Oj:

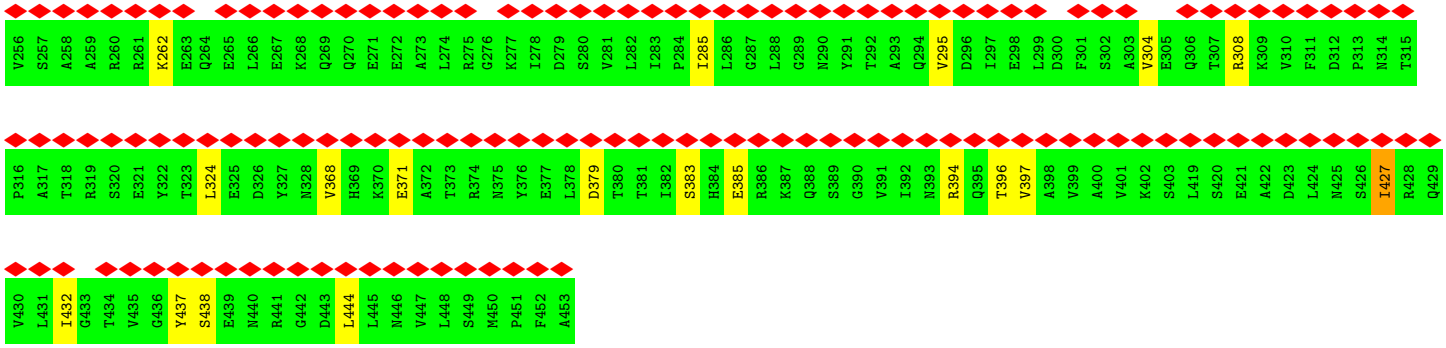




• Molecule 13: FliF

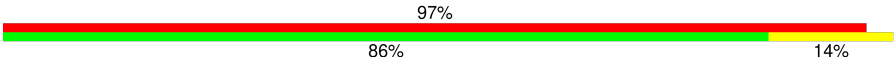
Chain Ok:

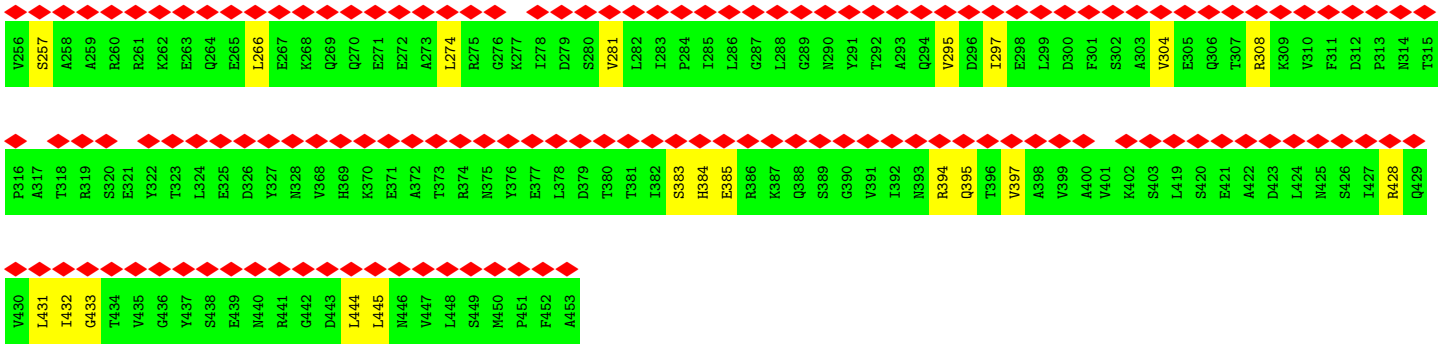




• Molecule 13: FliF

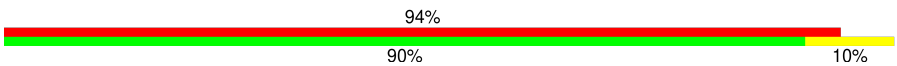
Chain Ol:

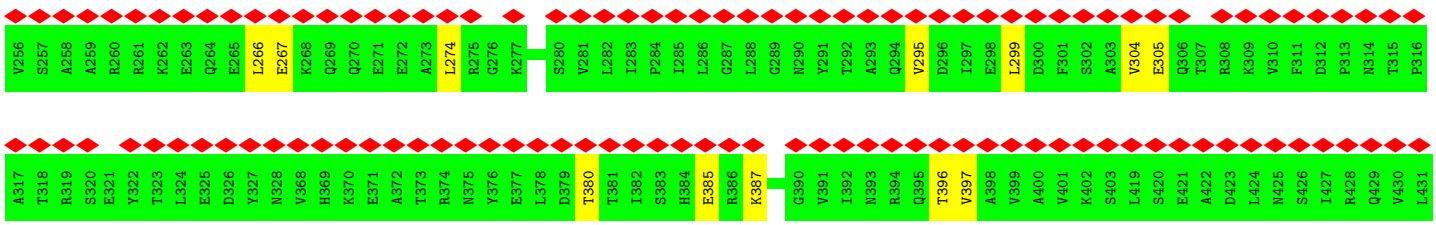


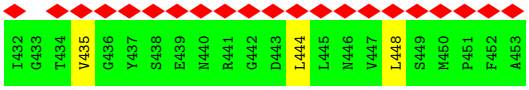


• Molecule 13: FliF

Chain Om:

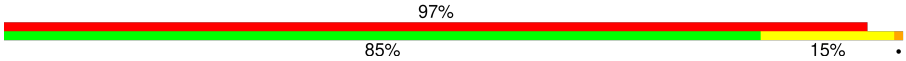


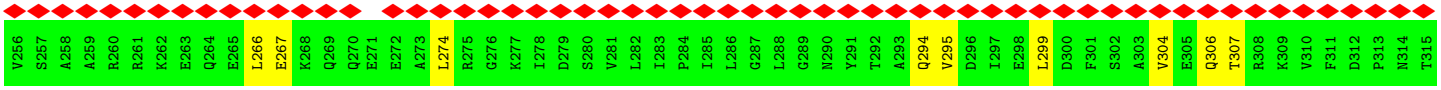


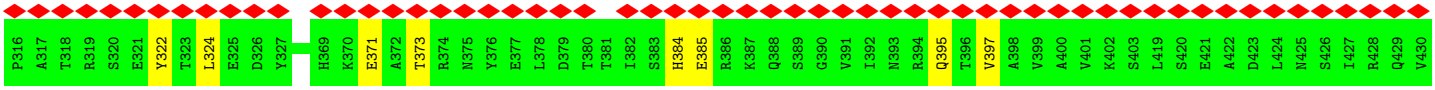


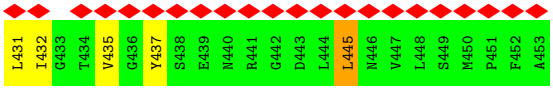
• Molecule 13: FliF

Chain On:



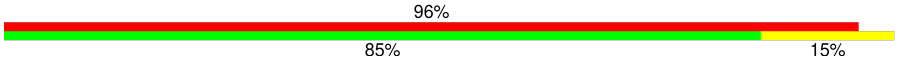


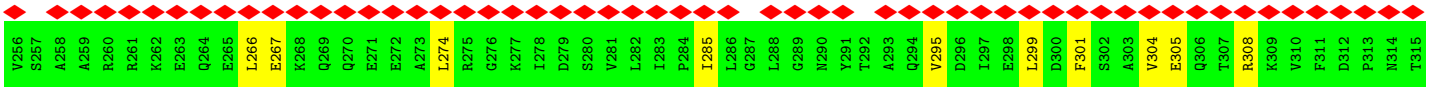


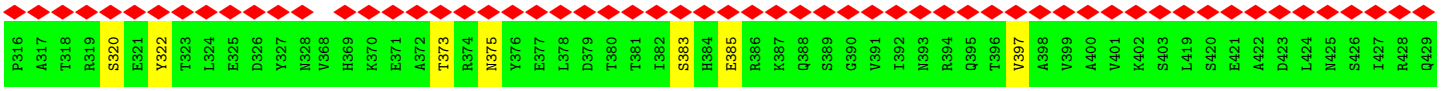


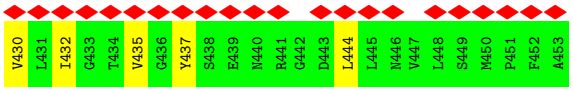
• Molecule 13: FliF

Chain Oo:



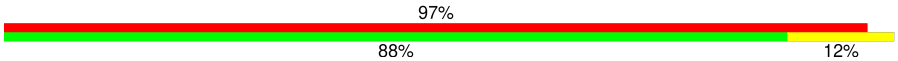


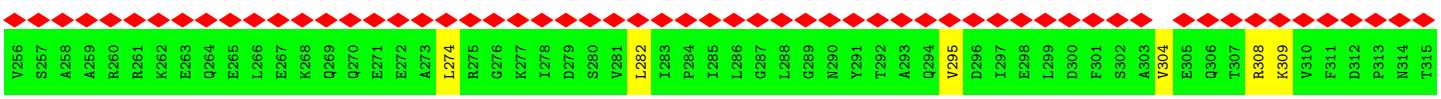


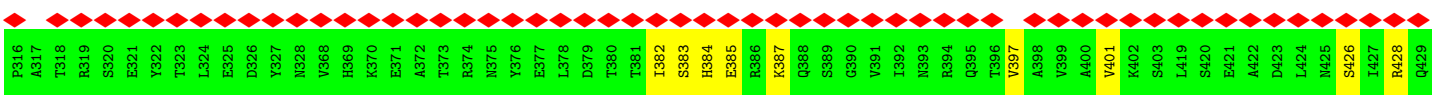


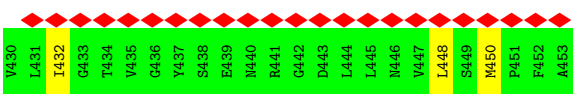
• Molecule 13: FliF

Chain Op:



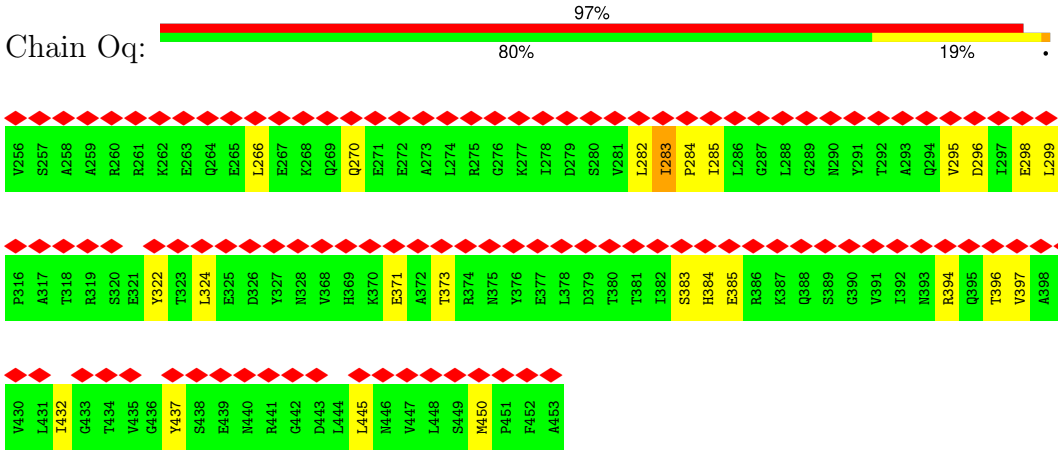






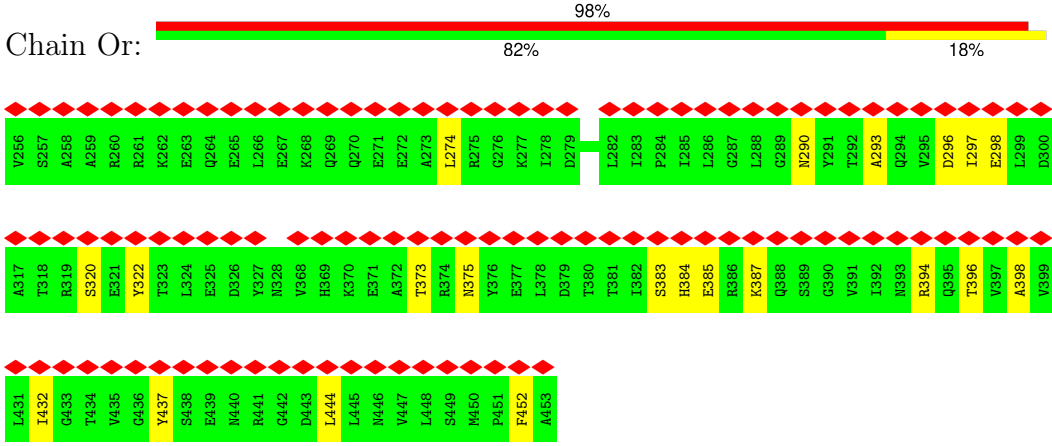
• Molecule 13: FliF

Chain Oq:



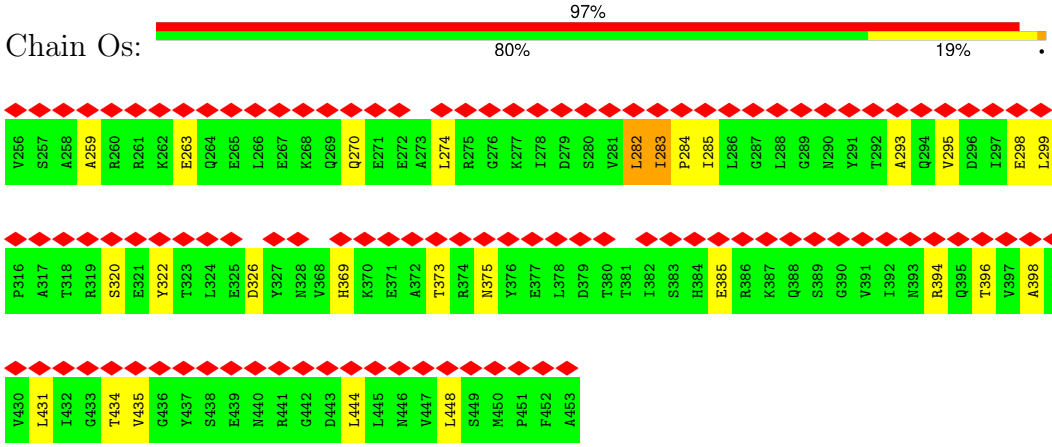
• Molecule 13: FliF

Chain Or:



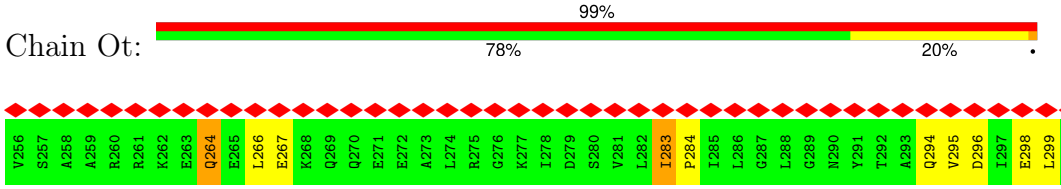
• Molecule 13: FliF

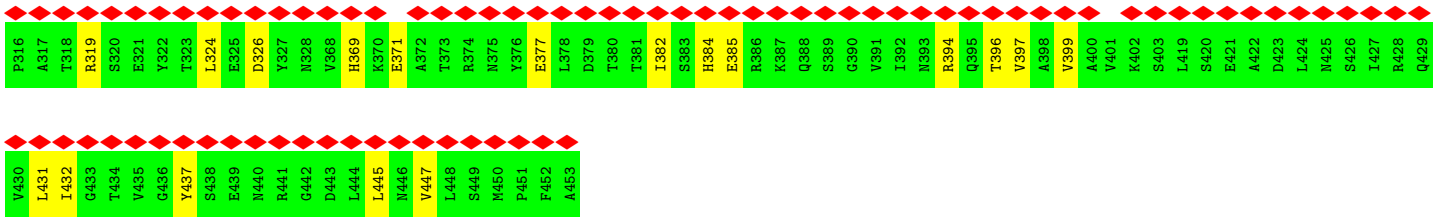
Chain Os:



• Molecule 13: FliF

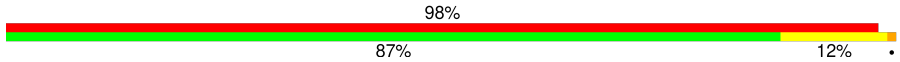
Chain Ot:

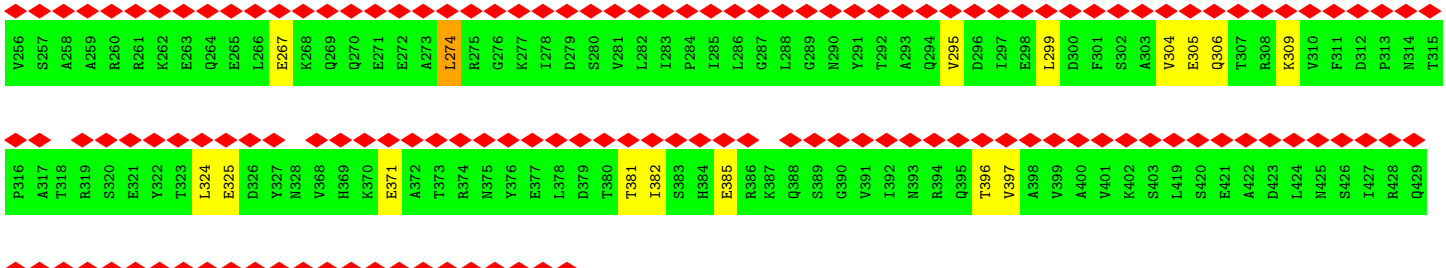




• Molecule 13: FliF

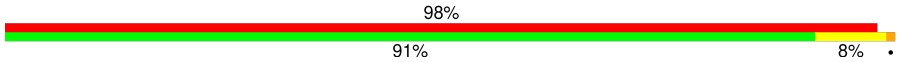
Chain Ou:

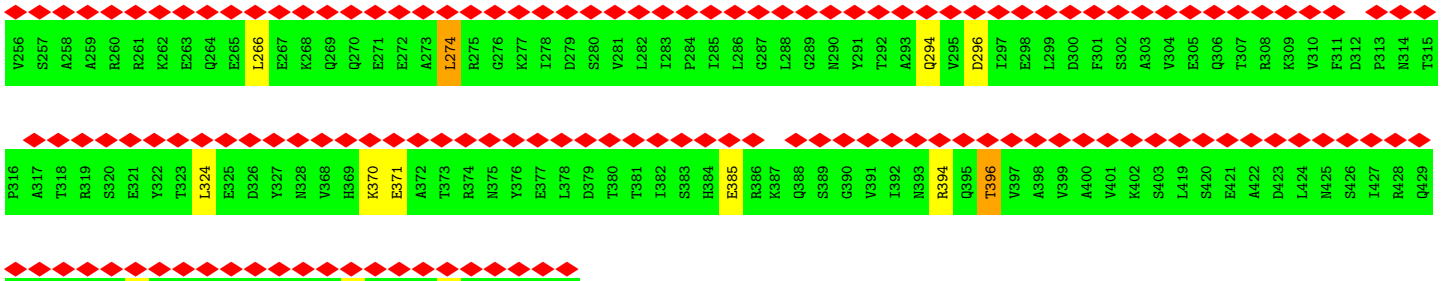




• Molecule 13: FliF

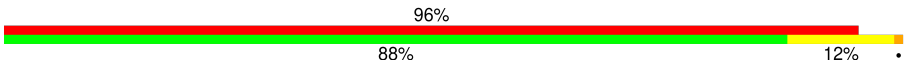
Chain Ov:

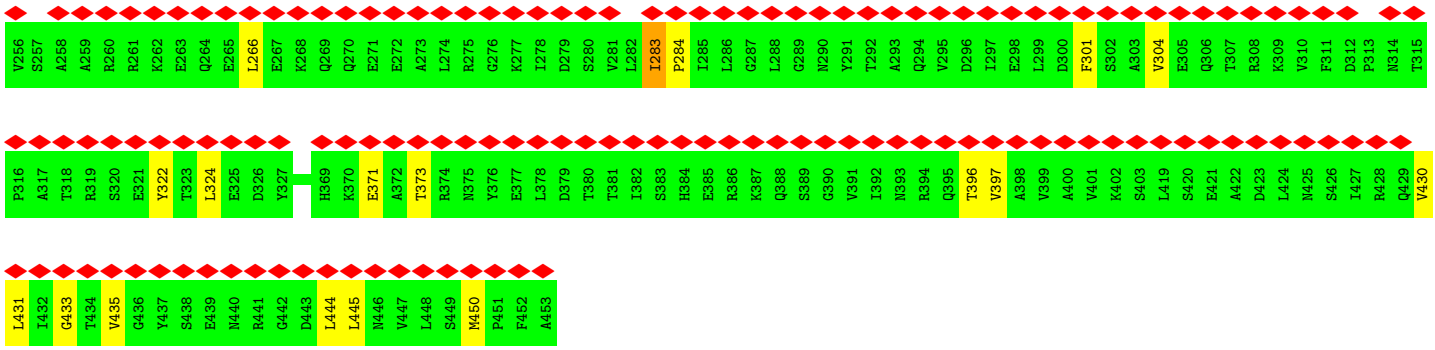




• Molecule 13: FliF

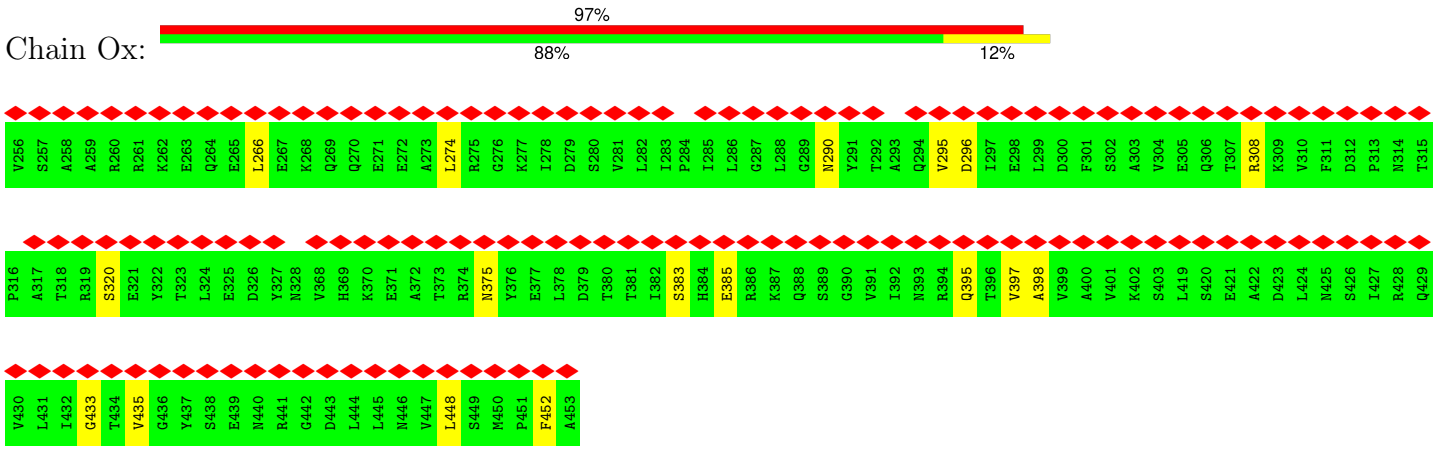
Chain Ow:





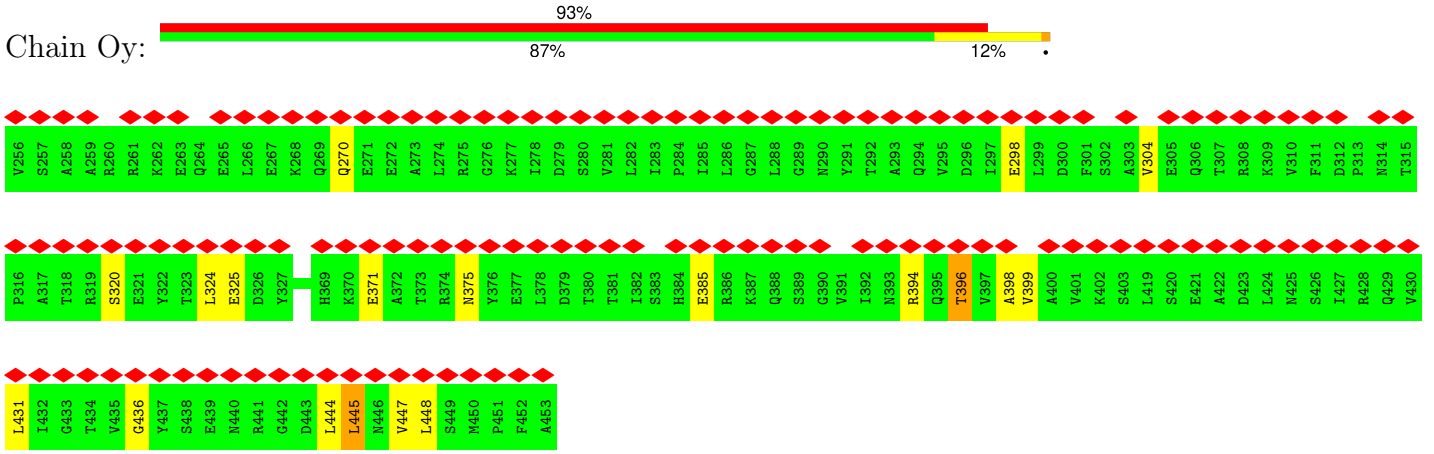
• Molecule 13: FliF

Chain Ox:



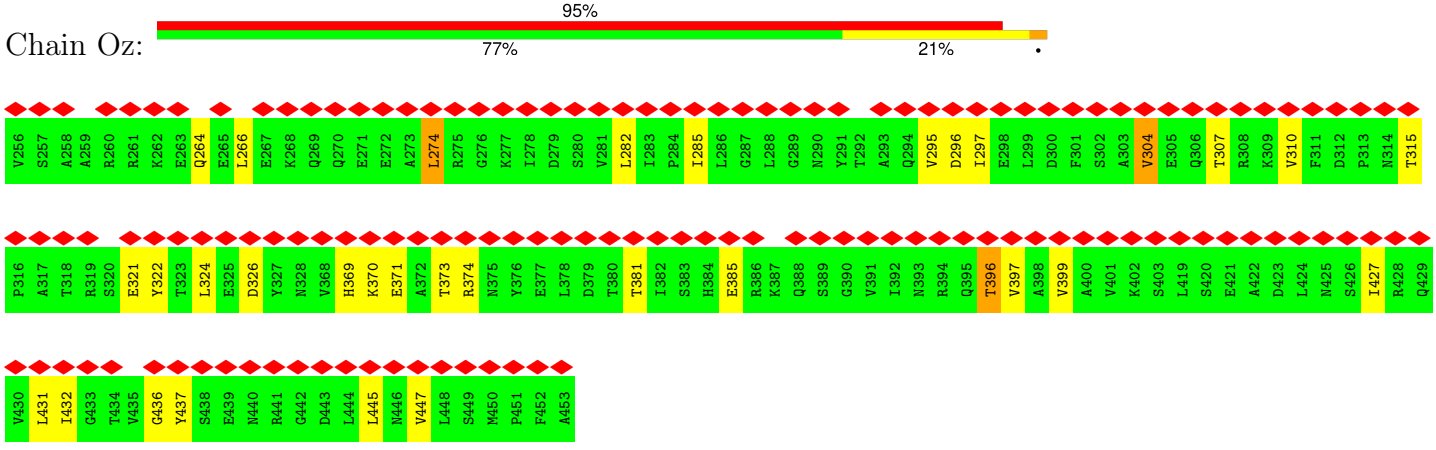
• Molecule 13: FliF

Chain Oy:



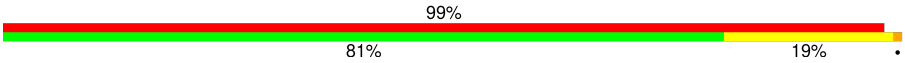
• Molecule 13: FliF

Chain Oz:



• Molecule 13: FliF

Chain Pa:



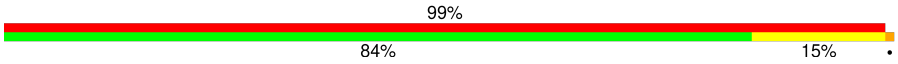
V256 S257 A258 A259 R260 R261 K262 E263 Q264 E265 L266 E267 K268 Q269 Q270 E271 E272 A273 L274 R275 G276 K277 I278 D279 S280 V281 L282 I283 P284 I285 L286 G287 L288 G289 N290 Y291 T292 A293 Q294 V295 D296 I297 E298 L299 D300 F301 S302 A303 V304 E305 Q306 T307 R308 K309 V310 F311 D312 P313 N314 T315

P316 A317 T318 R319 S320 E321 Y322 T323 L324 E325 D326 Y327 N328 V368 H369 K370 E371 A372 T373 R374 N375 Y376 E377 L378 D379 T380 T381 I382 S383 H384 E385 R386 K387 Q388 S389 G390 V391 T392 N393 R394 Q395 T396 V397 A398 V399 A400 V401 K402 S403 L419 S420 E421 A422 D423 L424 N425 S426 I427 R428 Q429

V430 L431 I432 G433 T434 V435 G436 Y437 S438 E439 N440 R441 G442 D443 L444 L445 N446 V447 L448 S449 M450 P451 F452 A453

- Molecule 13: FliF

Chain Pb:



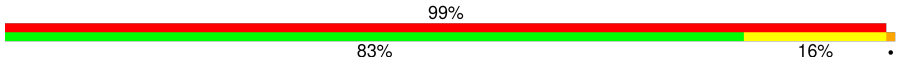
V256 S257 A258 A259 R260 R261 K262 E263 Q264 E265 L266 E267 K268 Q269 Q270 E271 E272 A273 L274 R275 G276 K277 I278 D279 S280 V281 L282 I283 P284 I285 L286 G287 L288 G289 N290 Y291 T292 A293 Q294 V295 D296 I297 E298 L299 D300 F301 S302 A303 V304 E305 Q306 T307 R308 K309 V310 F311 D312 P313 N314 T315

P316 A317 T318 R319 S320 E321 Y322 T323 L324 E325 D326 Y327 N328 V368 H369 K370 E371 A372 T373 R374 N375 Y376 E377 L378 D379 T380 T381 I382 S383 H384 E385 R386 K387 Q388 V391 I392 N393 R394 Q395 T396 V397 A398 V399 A400 V401 K402 S403 L419 S420 E421 A422 D423 L424 N425 S426 I427 R428 Q429 V430

L431 I432 G433 T434 V435 G436 Y437 S438 E439 N440 R441 G442 D443 L444 L445 N446 V447 L448 S449 M450 P451 F452 A453

- Molecule 13: FliF

Chain Pc:



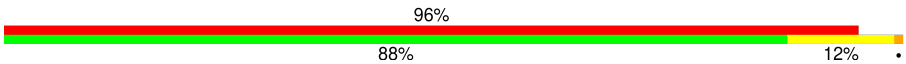
V256 S257 A258 A259 R260 R261 K262 E263 Q264 E265 L266 E267 K268 Q269 Q270 E271 E272 A273 L274 R275 G276 K277 I278 D279 S280 V281 L282 I283 P284 I285 L286 G287 L288 G289 N290 Y291 T292 A293 Q294 V295 D296 I297 E298 L299 D300 F301 S302 A303 V304 E305 Q306 T307 R308 K309 V310 F311 D312 P313 N314 T315

P316 A317 T318 R319 S320 E321 Y322 T323 L324 E325 D326 Y327 N328 V368 H369 K370 E371 A372 T373 R374 N375 Y376 E377 L378 D379 T380 T381 I382 S383 H384 E385 R386 K387 Q388 S389 G390 V391 I392 N393 R394 Q395 T396 V397 A398 V399 A400 V401 K402 S403 L419 S420 E421 A422 D423 L424 N425 S426 I427 R428 Q429

V430 L431 I432 G433 T434 V435 G436 Y437 S438 E439 N440 R441 G442 D443 L444 L445 N446 V447 L448 S449 M450 P451 F452 A453

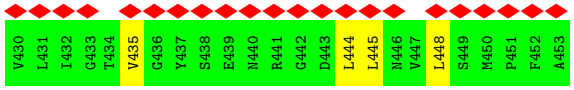
- Molecule 13: FliF

Chain Pd:



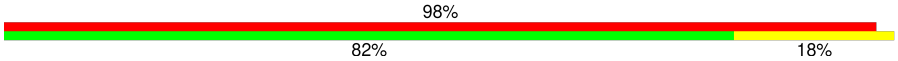
V256 S257 A258 A259 R260 R261 K262 E263 Q264 E265 L266 E267 K268 Q269 Q270 E271 E272 A273 L274 R275 G276 K277 I278 D279 S280 V281 L282 I283 P284 I285 L286 G287 L288 G289 N290 Y291 T292 A293 Q294 V295 D296 I297 E298 L299 D300 F301 S302 A303 V304 E305 Q306 T307 R308 K309 V310 F311 D312 P313 N314 T315

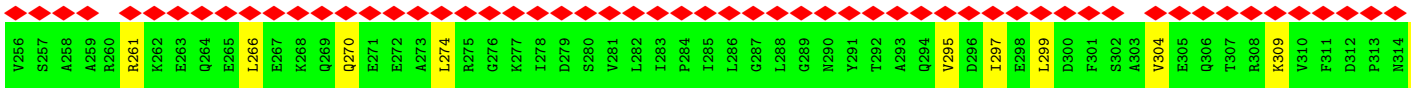
P316 A317 T318 R319 S320 E321 Y322 T323 L324 E325 D326 Y327 N328 V368 H369 K370 E371 A372 T373 R374 N375 Y376 E377 L378 D379 T380 T381 I382 S383 H384 E385 R386 K387 Q388 S389 G390 V391 I392 N393 R394 Q395 T396 V397 A398 V399 A400 V401 K402 S403 L419 S420 E421 A422 D423 L424 N425 S426 I427 R428 Q429

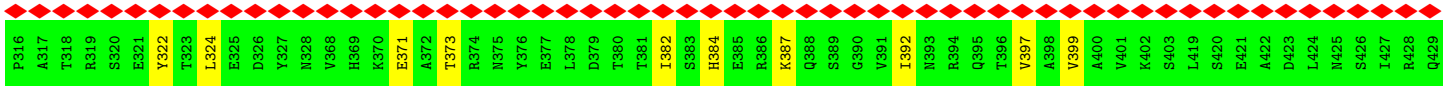


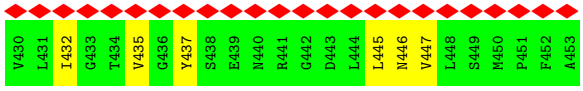
• Molecule 13: FliF

Chain Pe:



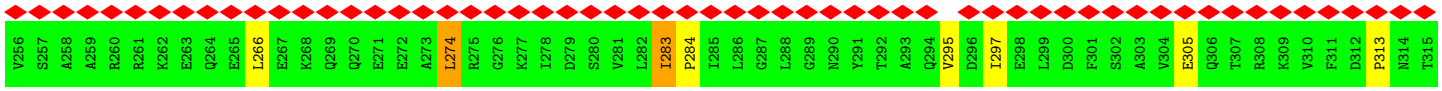


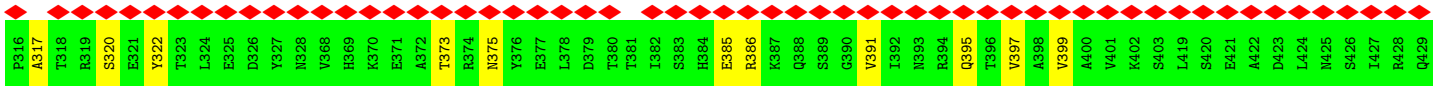


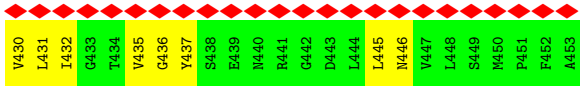


• Molecule 13: FliF

Chain Pf:

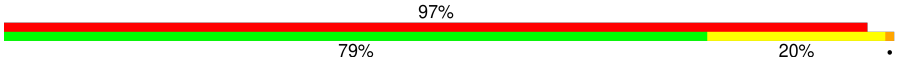


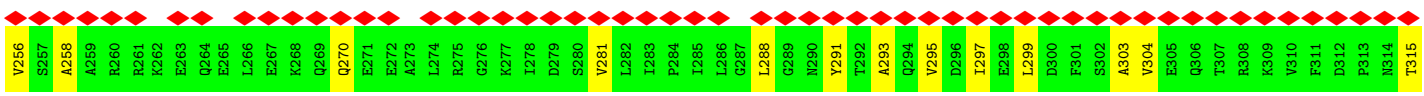


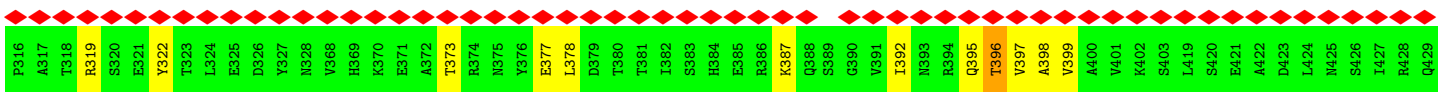


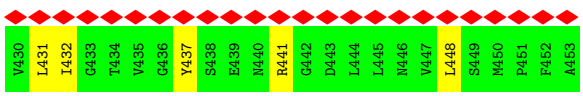
• Molecule 13: FliF

Chain Pg:



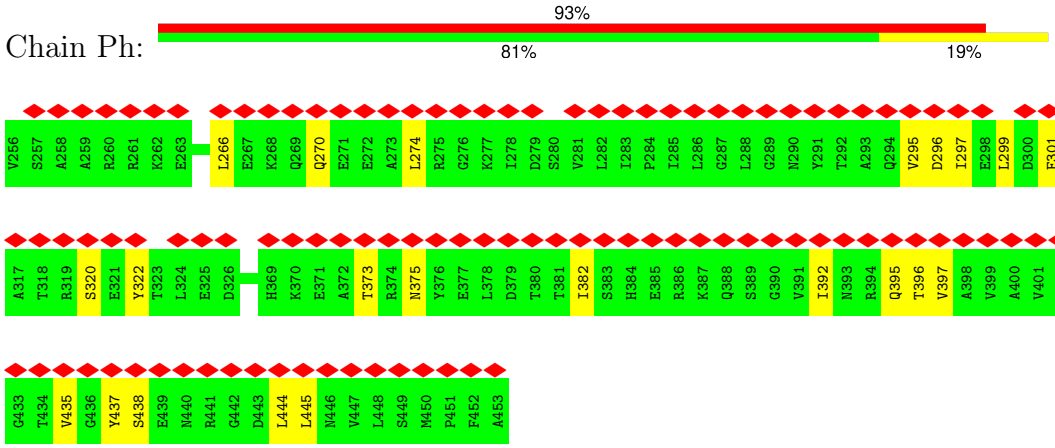






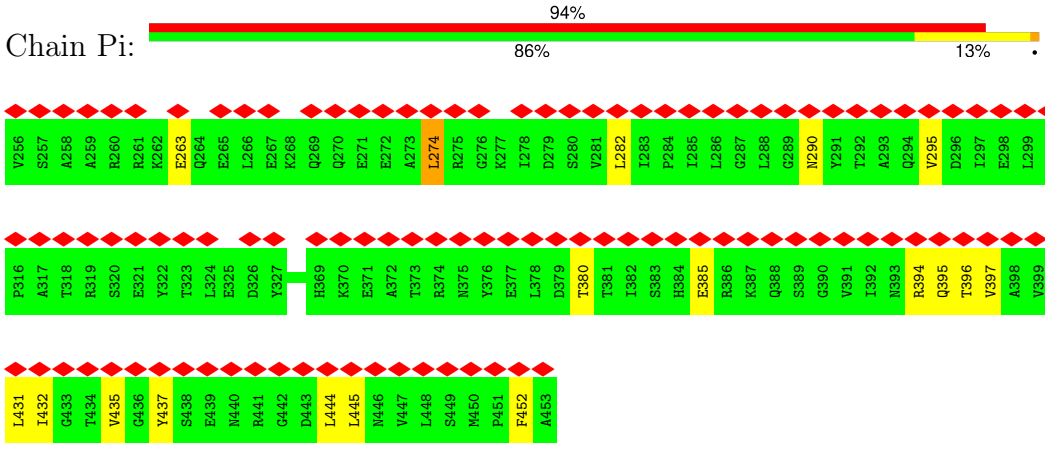
• Molecule 13: FliF

Chain Ph:



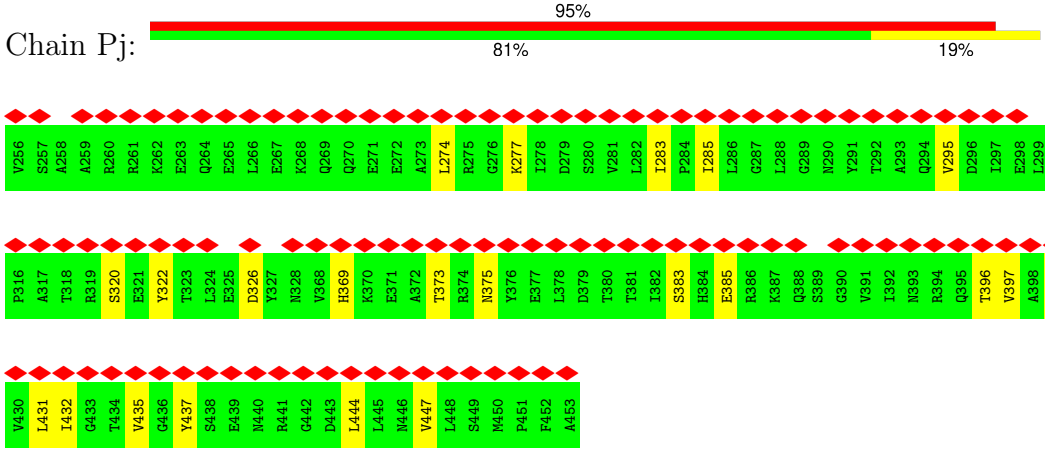
- Molecule 13: FliF

Chain Pi:



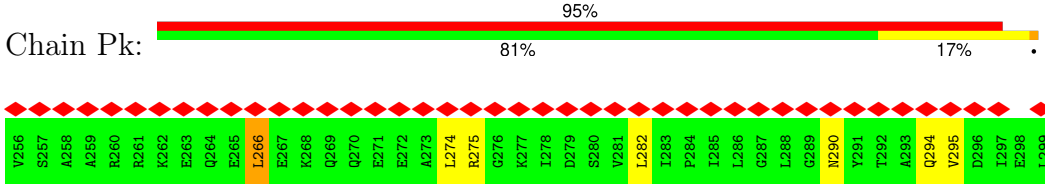
- Molecule 13: FliF

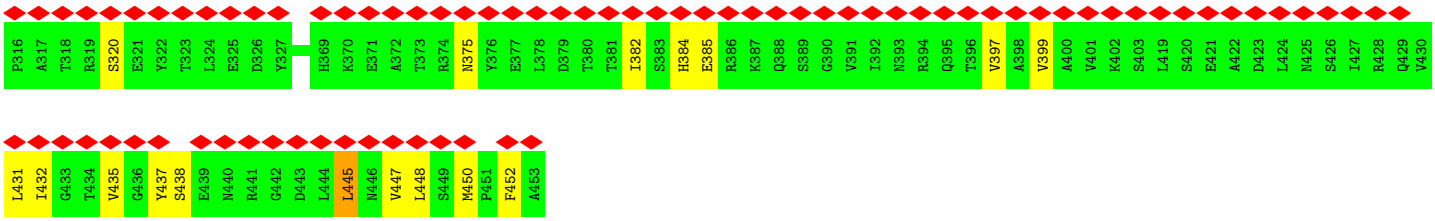
Chain Pj:



- Molecule 13: FliF

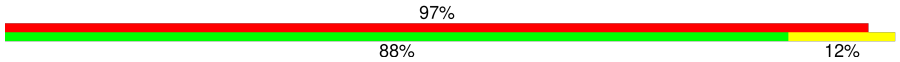
Chain Pk:

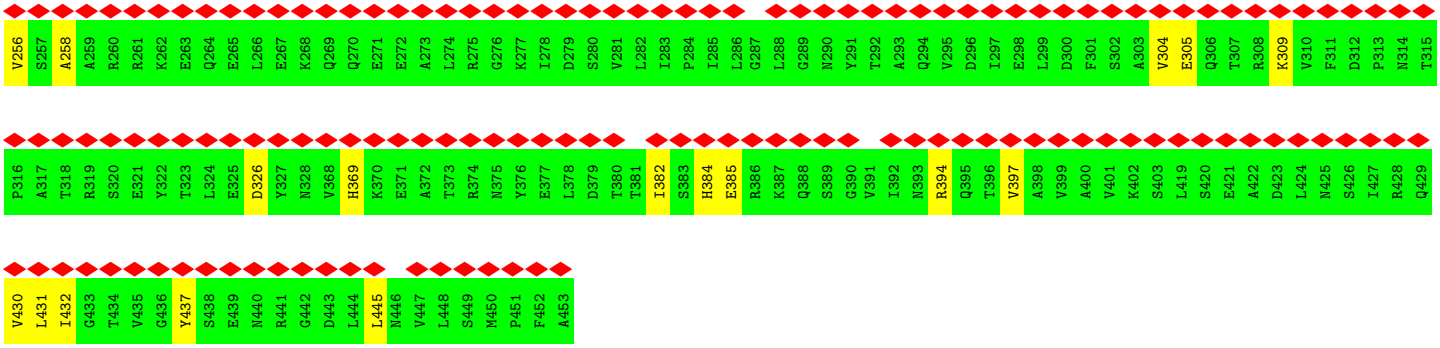




• Molecule 13: FliF

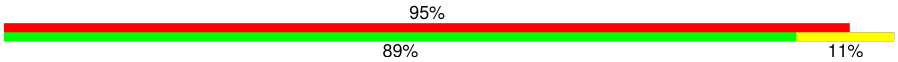
Chain Pl:

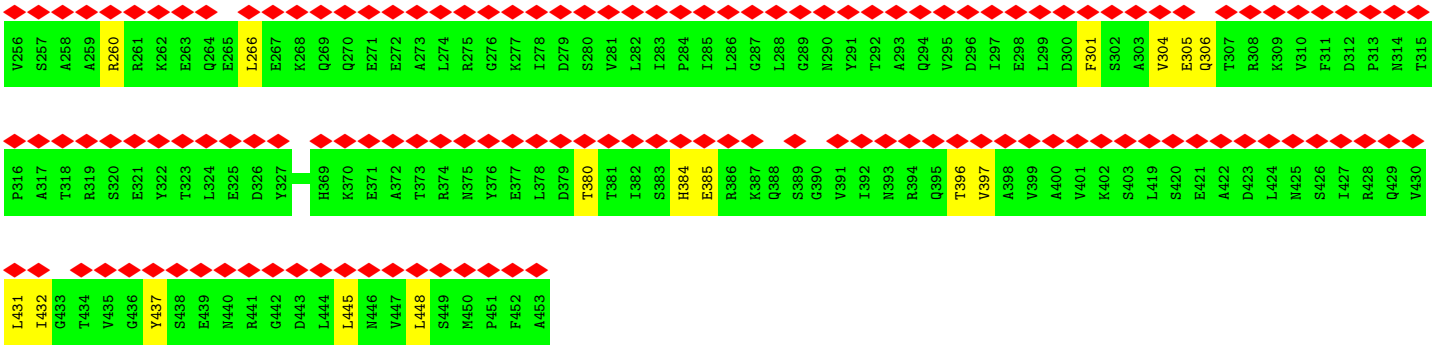




• Molecule 13: FliF

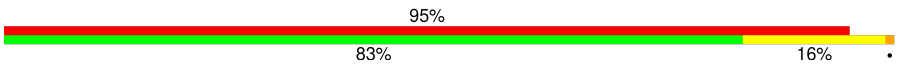
Chain Pm:

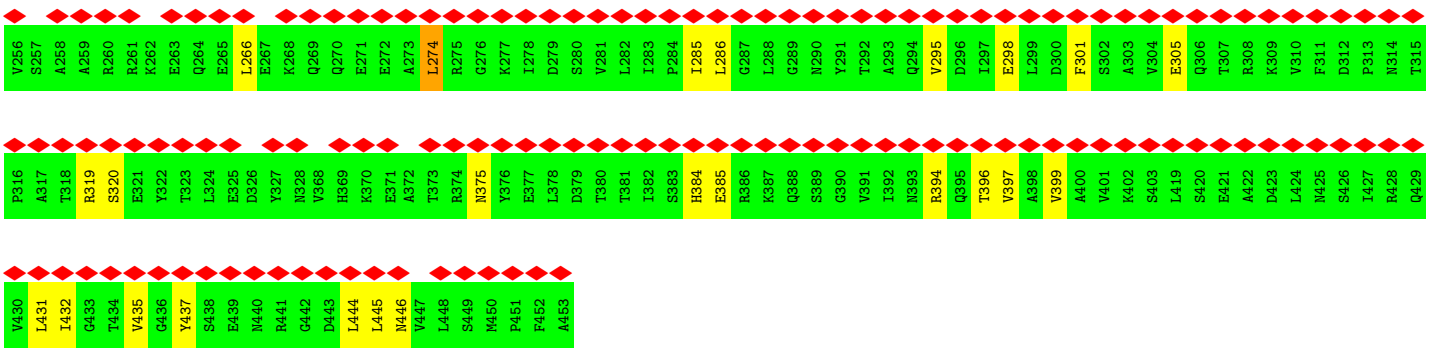




• Molecule 13: FliF

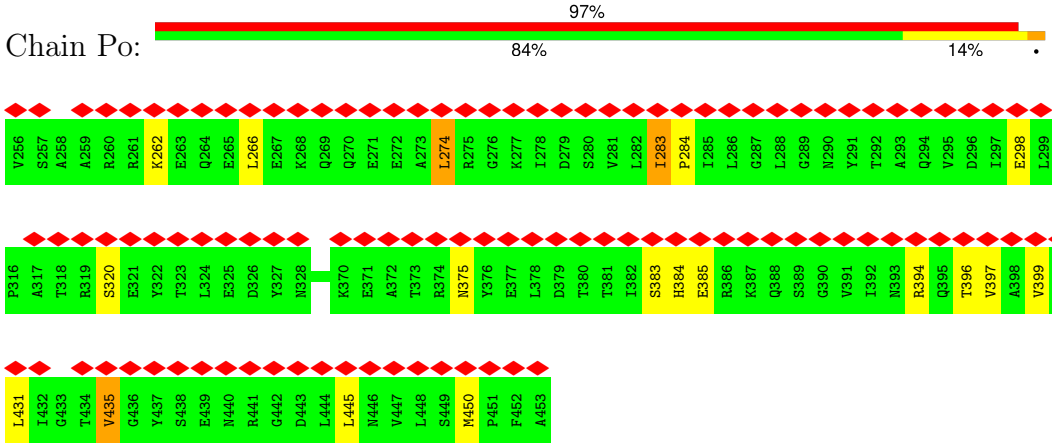
Chain Pn:





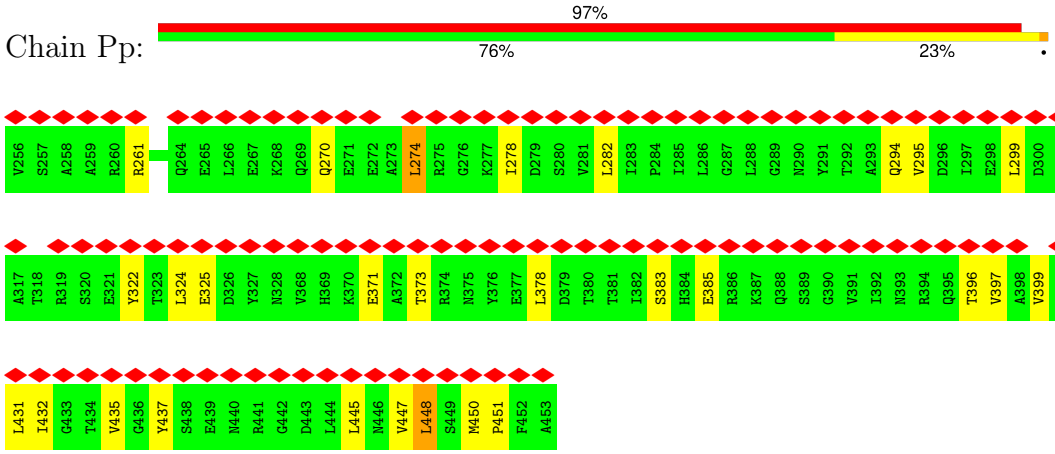
• Molecule 13: FliF

Chain Po:



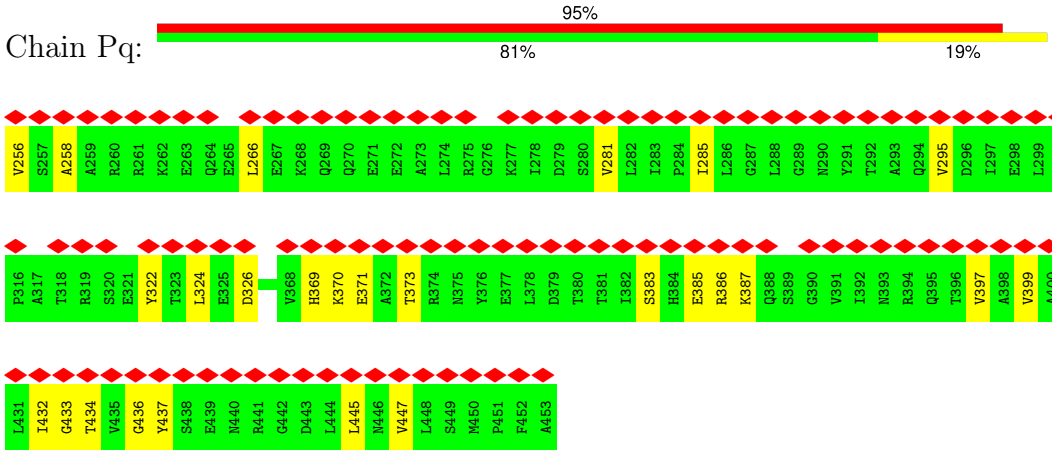
• Molecule 13: FliF

Chain Pp:



• Molecule 13: FliF

Chain Pq:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C13	Depositor
Number of particles used	53628	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	70	Depositor
Minimum defocus (nm)	1600	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	1.105	Depositor
Minimum map value	-0.764	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.046	Depositor
Recommended contour level	0.05	Depositor
Map size (Å)	640.63995, 640.63995, 640.63995	wwPDB
Map dimensions	448, 448, 448	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.43, 1.43, 1.43	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	0.10	0/1995	0.26	0/2704
1	Ab	0.11	0/1995	0.27	0/2704
1	Ac	0.10	0/1995	0.25	0/2704
1	Ad	0.10	0/1995	0.24	0/2704
1	Ae	0.11	0/1995	0.28	0/2704
1	Af	0.10	0/1995	0.25	0/2704
1	Ag	0.11	0/1995	0.29	0/2704
1	Ah	0.11	0/1995	0.27	0/2704
1	Ai	0.11	0/1995	0.26	0/2704
1	Aj	0.11	0/1995	0.26	0/2704
1	Ak	0.11	0/1995	0.26	0/2704
1	Al	0.10	0/1995	0.26	0/2704
1	Am	0.12	0/1992	0.30	0/2701
1	An	0.12	0/1995	0.26	0/2704
1	Ao	0.10	0/1995	0.26	0/2704
1	Ap	0.13	0/1917	0.26	0/2596
1	Aq	0.11	0/1995	0.28	0/2704
1	Ar	0.10	0/1886	0.26	0/2554
1	As	0.12	0/1995	0.29	0/2704
1	At	0.12	0/1913	0.27	0/2591
1	Au	0.11	0/1995	0.29	0/2704
1	Av	0.11	0/1882	0.27	0/2548
1	Aw	0.11	0/1995	0.27	0/2704
1	Ax	0.11	0/1899	0.28	0/2571
1	Ay	0.11	0/1888	0.27	0/2557
1	Az	0.10	0/1896	0.26	0/2567
1	Bb	0.11	0/1925	0.27	0/2607
2	Ba	0.09	0/1830	0.22	0/2466
2	Bc	0.09	0/1891	0.22	0/2550
2	Bd	0.09	0/1852	0.22	0/2495
2	Bv	0.09	0/1753	0.25	0/2363
2	Bw	0.08	0/1888	0.22	0/2545
3	Be	0.09	0/2080	0.24	0/2817
3	Bf	0.09	0/2080	0.24	0/2817

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	Bg	0.08	0/2100	0.23	0/2842
3	Bh	0.09	0/2080	0.23	0/2817
3	Bi	0.08	0/2100	0.21	0/2842
3	Bj	0.09	0/2100	0.23	0/2842
3	Bk	0.08	0/2100	0.22	0/2842
3	Bl	0.08	0/2100	0.22	0/2842
3	Bm	0.09	0/2100	0.23	0/2842
3	Bn	0.09	0/2100	0.25	0/2842
3	Bo	0.08	0/2100	0.22	0/2842
3	Bp	0.08	0/2100	0.23	0/2842
3	Bq	0.09	0/2100	0.25	0/2842
3	Br	0.10	0/2100	0.25	0/2842
3	Bs	0.09	0/2100	0.24	0/2842
3	Bt	0.09	0/2100	0.23	0/2842
3	Bu	0.09	0/2100	0.22	0/2842
4	Bx	0.09	0/1699	0.24	0/2303
4	By	0.09	0/1699	0.24	0/2303
4	Bz	0.09	0/1699	0.24	0/2303
4	Ca	0.09	0/1699	0.24	0/2303
4	Cb	0.08	0/1699	0.24	0/2303
4	Cc	0.08	0/1699	0.24	0/2303
4	Cd	0.09	0/1699	0.24	0/2303
4	Ce	0.08	0/1699	0.25	0/2303
4	Cf	0.08	0/1699	0.24	0/2303
4	Cg	0.08	0/1699	0.24	0/2303
4	Ch	0.09	0/1699	0.24	0/2303
4	Ci	0.08	0/1699	0.24	0/2303
4	Cj	0.09	0/1699	0.24	0/2303
4	Ck	0.09	0/1699	0.24	0/2303
4	Cl	0.08	0/1699	0.24	0/2303
4	Cm	0.09	0/1699	0.24	0/2303
4	Cn	0.09	0/1699	0.24	0/2303
4	Co	0.09	0/1699	0.24	0/2303
4	Cp	0.08	0/1699	0.24	0/2303
4	Cq	0.08	0/1699	0.24	0/2303
4	Cr	0.09	0/1699	0.24	0/2303
4	Cs	0.09	0/1699	0.24	0/2303
4	Ct	0.09	0/1699	0.25	0/2303
4	Cu	0.09	0/1699	0.25	0/2303
4	Cv	0.08	0/1699	0.25	0/2303
4	Cw	0.09	0/1699	0.24	0/2303
5	Cx	0.09	0/2345	0.27	0/3177
5	Cy	0.09	0/2345	0.27	0/3177

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	Cz	0.09	0/2345	0.26	0/3177
5	Da	0.09	0/2345	0.27	0/3177
5	Db	0.09	0/2345	0.27	0/3177
5	Dc	0.10	0/2345	0.27	0/3177
5	Dd	0.09	0/2345	0.26	0/3177
5	De	0.09	0/2345	0.27	0/3177
5	Df	0.10	0/2345	0.27	0/3177
5	Dg	0.10	0/2345	0.27	0/3177
5	Dh	0.10	0/2345	0.27	0/3177
5	Di	0.09	0/2345	0.26	0/3177
5	Dj	0.10	0/2345	0.27	0/3177
5	Dk	0.09	0/2345	0.27	0/3177
5	Dl	0.10	0/2345	0.27	0/3177
5	Dm	0.10	0/2345	0.27	0/3177
5	Dn	0.10	0/2345	0.27	0/3177
5	Do	0.10	0/2345	0.27	0/3177
5	Dp	0.10	0/2345	0.26	0/3177
5	Dq	0.09	0/2345	0.27	0/3177
5	Dr	0.09	0/2345	0.27	0/3177
5	Ds	0.10	0/2345	0.27	0/3177
5	Dt	0.09	0/2345	0.27	0/3177
5	Du	0.09	0/2345	0.27	0/3177
5	Dv	0.10	0/2345	0.27	0/3177
5	Dw	0.10	0/2345	0.26	0/3177
6	Dx	0.10	0/2816	0.27	0/3809
6	Dy	0.13	0/2816	0.27	0/3809
6	Dz	0.10	0/2816	0.26	0/3809
6	Ea	0.11	0/2816	0.27	0/3809
6	Eb	0.98	6/2816 (0.2%)	0.28	0/3809
6	Ec	0.10	0/2816	0.27	0/3809
6	Ed	0.11	0/2816	0.27	0/3809
6	Ee	0.10	0/2816	0.28	0/3809
6	Ef	0.10	0/2816	0.27	0/3809
6	Eg	0.11	0/2816	0.26	0/3809
6	Eh	0.10	0/2816	0.27	0/3809
6	Ei	0.10	0/2816	0.28	0/3809
6	Ej	0.10	0/2816	0.26	0/3809
6	Ek	0.10	0/2816	0.27	0/3809
6	El	0.10	0/2816	0.27	0/3809
6	Em	0.10	0/2816	0.27	0/3809
6	En	0.10	0/2816	0.27	0/3809
6	Eo	1.67	6/2816 (0.2%)	0.29	1/3809 (0.0%)
6	Ep	0.10	0/2816	0.28	0/3809

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
6	Eq	0.11	0/2816	0.29	0/3809
6	Er	0.10	0/2816	0.27	0/3809
6	Es	0.10	0/2816	0.28	0/3809
6	Et	0.10	0/2816	0.27	0/3809
6	Eu	0.10	0/2816	0.26	0/3809
6	Ev	0.10	0/2816	0.27	0/3809
6	Ew	0.10	0/2816	0.27	0/3809
7	Ex	0.12	0/2129	0.29	0/2882
7	Ey	0.12	0/2124	0.32	0/2877
7	Ez	0.11	0/2129	0.28	0/2882
7	Fa	0.12	0/2124	0.32	0/2877
7	Fb	0.11	0/2129	0.28	0/2882
7	Fc	0.12	0/2124	0.32	0/2877
7	Fd	0.12	0/2129	0.28	0/2882
7	Fe	0.12	0/2124	0.33	0/2877
7	Ff	0.11	0/2129	0.28	0/2882
7	Fg	0.12	0/2124	0.31	0/2877
7	Fh	0.12	0/2129	0.29	0/2882
7	Fi	0.12	0/2124	0.32	0/2877
7	Fj	0.11	0/2129	0.28	0/2882
7	Fk	0.12	0/2124	0.32	0/2877
7	Fl	0.11	0/2129	0.28	0/2882
7	Fm	0.12	0/2124	0.32	0/2877
7	Fn	0.11	0/2129	0.28	0/2882
7	Fo	0.12	0/2124	0.32	0/2877
7	Fp	0.11	0/2129	0.28	0/2882
7	Fq	0.12	0/2124	0.32	0/2877
7	Fr	0.12	0/2129	0.30	0/2882
7	Fs	0.12	0/2124	0.32	0/2877
7	Ft	0.11	0/2129	0.28	0/2882
7	Fu	0.12	0/2124	0.32	0/2877
7	Fv	0.11	0/2129	0.30	0/2882
7	Fw	0.12	0/2124	0.32	0/2877
8	Fx	0.11	0/1494	0.31	0/2027
8	Fy	0.11	0/1523	0.30	0/2062
8	Fz	0.11	0/1494	0.31	0/2027
8	Ga	0.12	0/1523	0.31	0/2062
8	Gb	0.11	0/1494	0.31	0/2027
8	Gc	0.11	0/1523	0.30	0/2062
8	Gd	0.12	0/1494	0.31	0/2027
8	Ge	0.11	0/1523	0.31	0/2062
8	Gf	0.12	0/1494	0.31	0/2027
8	Gg	0.11	0/1523	0.30	0/2062

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	Gh	0.11	0/1494	0.31	0/2027
8	Gi	0.11	0/1523	0.30	0/2062
8	Gj	0.11	0/1494	0.31	0/2027
8	Gk	0.12	0/1523	0.31	0/2062
8	Gl	0.11	0/1494	0.31	0/2027
8	Gm	0.12	0/1523	0.31	0/2062
8	Gn	0.12	0/1494	0.31	0/2027
8	Go	0.11	0/1523	0.31	0/2062
8	Gp	0.11	0/1494	0.31	0/2027
8	Gq	0.11	0/1523	0.31	0/2062
8	Gr	0.12	0/1494	0.31	0/2027
8	Gs	0.12	0/1523	0.31	0/2062
8	Gt	0.11	0/1494	0.30	0/2027
8	Gu	0.11	0/1523	0.30	0/2062
8	Gv	0.12	0/1494	0.31	0/2027
8	Gw	0.11	0/1523	0.30	0/2062
9	Gx	0.13	0/106	0.35	0/139
9	Gy	0.13	0/106	0.32	0/139
9	Gz	0.15	0/106	0.39	0/139
9	Ha	0.16	0/106	0.41	0/139
9	Hb	0.14	0/106	0.36	0/139
9	Hc	0.14	0/106	0.37	0/139
9	Hd	0.12	0/106	0.36	0/139
9	He	0.18	0/106	0.40	0/139
9	Hf	0.16	0/106	0.40	0/139
9	Hg	0.15	0/106	0.36	0/139
9	Hh	0.17	0/106	0.39	0/139
9	Hi	0.15	0/106	0.40	0/139
9	Hj	0.16	0/106	0.43	0/139
9	Hk	0.12	0/106	0.35	0/139
9	Hl	0.15	0/106	0.39	0/139
9	Hm	0.15	0/106	0.36	0/139
9	Hn	0.16	0/106	0.38	0/139
9	Ho	0.14	0/106	0.34	0/139
9	Hp	0.14	0/106	0.36	0/139
9	Hq	0.17	0/106	0.40	0/139
9	Hr	0.14	0/106	0.42	0/139
9	Hs	0.16	0/106	0.40	0/139
9	Ht	0.13	0/106	0.36	0/139
9	Hu	0.15	0/106	0.39	0/139
9	Hv	0.18	0/106	0.41	0/139
9	Hw	0.13	0/106	0.41	0/139
9	Hx	0.14	0/106	0.39	0/139

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
9	Hy	0.14	0/106	0.40	0/139
9	Hz	0.15	0/106	0.40	0/139
9	Ia	0.12	0/106	0.36	0/139
9	Ib	0.14	0/106	0.37	0/139
9	Ic	0.14	0/106	0.37	0/139
9	Id	0.16	0/106	0.39	0/139
9	Ie	0.14	0/106	0.38	0/139
9	If	0.12	0/106	0.39	0/139
9	Ig	0.11	0/106	0.37	0/139
9	Ih	0.15	0/106	0.41	0/139
9	Ii	0.13	0/106	0.38	0/139
9	Ij	0.14	0/106	0.38	0/139
9	Ik	0.15	0/106	0.39	0/139
9	Il	0.12	0/106	0.38	0/139
9	Im	0.12	0/106	0.40	0/139
9	In	0.12	0/106	0.39	0/139
9	Io	0.15	0/106	0.39	0/139
9	Ip	0.13	0/106	0.36	0/139
9	Iq	0.14	0/106	0.41	0/139
9	Ir	0.11	0/106	0.37	0/139
9	Is	0.12	0/106	0.44	0/139
9	It	0.19	0/106	0.54	0/139
9	Iu	0.15	0/106	0.38	0/139
9	Iv	0.12	0/106	0.38	0/139
9	Iw	0.15	0/106	0.38	0/139
10	Ix	0.11	0/1245	0.27	0/1674
10	Iy	0.11	0/1245	0.27	0/1674
10	Iz	0.11	0/1245	0.27	0/1674
10	Ja	0.11	0/1245	0.27	0/1674
10	Jb	0.11	0/1245	0.27	0/1674
10	Jc	0.11	0/1245	0.27	0/1674
10	Jd	0.12	0/1245	0.27	0/1674
10	Je	0.11	0/1245	0.27	0/1674
10	Jf	0.11	0/1245	0.27	0/1674
10	Jg	0.11	0/1245	0.27	0/1674
10	Jh	0.11	0/1245	0.27	0/1674
10	Ji	0.11	0/1245	0.27	0/1674
10	Jj	0.11	0/1245	0.27	0/1674
10	Jk	0.11	0/1245	0.27	0/1674
10	Jl	0.11	0/1245	0.27	0/1674
10	Jm	0.11	0/1245	0.27	0/1674
10	Jn	0.11	0/1245	0.27	0/1674
10	Jo	0.11	0/1245	0.27	0/1674

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
10	Jp	0.11	0/1245	0.27	0/1674
10	Jq	0.11	0/1245	0.28	0/1674
10	Jr	0.11	0/1245	0.27	0/1674
10	Js	0.11	0/1245	0.27	0/1674
10	Jt	0.11	0/1245	0.27	0/1674
10	Ju	0.11	0/1245	0.27	0/1674
10	Jv	0.11	0/1245	0.27	0/1674
10	Jw	0.11	0/1245	0.27	0/1674
11	Jx	2.72	1/836 (0.1%)	0.42	2/1119 (0.2%)
11	Jy	0.11	0/836	0.28	0/1119
11	Jz	0.11	0/836	0.29	0/1119
11	Ka	0.11	0/836	0.27	0/1119
11	Kb	0.11	0/836	0.27	0/1119
11	Kc	0.11	0/836	0.29	0/1119
11	Kd	0.10	0/836	0.27	0/1119
11	Ke	0.11	0/836	0.27	0/1119
11	Kf	0.10	0/836	0.29	0/1119
11	Kg	0.11	0/836	0.28	0/1119
11	Kh	0.10	0/836	0.28	0/1119
11	Ki	0.10	0/836	0.27	0/1119
11	Kj	0.10	0/836	0.27	0/1119
11	Kk	0.11	0/836	0.27	0/1119
11	Kl	0.11	0/836	0.28	0/1119
11	Km	0.11	0/836	0.28	0/1119
11	Kn	0.11	0/836	0.30	0/1119
11	Ko	0.10	0/836	0.27	0/1119
11	Kp	0.10	0/836	0.28	0/1119
11	Kq	0.10	0/836	0.30	0/1119
11	Kr	0.11	0/836	0.28	0/1119
11	Ks	0.11	0/836	0.28	0/1119
11	Kt	0.10	0/836	0.27	0/1119
11	Ku	0.11	0/836	0.27	0/1119
11	Kv	0.11	0/836	0.27	0/1119
11	Kw	0.11	0/836	0.28	0/1119
11	Kx	0.10	0/836	0.29	0/1119
11	Ky	0.11	0/836	0.27	0/1119
11	Kz	0.10	0/836	0.27	0/1119
11	La	0.93	2/836 (0.2%)	0.86	3/1119 (0.3%)
11	Lb	0.11	0/836	0.28	0/1119
11	Lc	0.11	0/836	0.30	0/1119
11	Ld	0.11	0/836	0.31	0/1119
11	Le	0.11	0/836	0.27	0/1119
11	Lf	0.11	0/836	0.30	0/1119

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
11	Lg	0.10	0/836	0.27	0/1119
11	Lh	0.10	0/836	0.27	0/1119
11	Li	0.11	0/836	0.28	0/1119
11	Lj	0.10	0/836	0.29	0/1119
11	Lk	0.11	0/836	0.30	0/1119
11	Ll	0.11	0/836	0.27	0/1119
11	Lm	0.10	0/836	0.28	0/1119
11	Ln	0.10	0/836	0.30	0/1119
11	Lo	0.11	0/836	0.28	0/1119
11	Lp	0.11	0/836	0.27	0/1119
11	Lq	0.11	0/836	0.30	0/1119
11	Lr	0.11	0/836	0.28	0/1119
11	Ls	0.11	0/836	0.28	0/1119
11	Lt	0.11	0/836	0.27	0/1119
11	Lu	0.10	0/836	0.27	0/1119
11	Lv	0.11	0/836	0.28	0/1119
11	Lw	0.10	0/836	0.27	0/1119
11	Lx	0.11	0/836	0.27	0/1119
11	Ly	0.11	0/836	0.28	0/1119
11	Lz	0.11	0/836	0.28	0/1119
11	Ma	0.10	0/836	0.27	0/1119
11	Mb	0.11	0/836	0.27	0/1119
11	Mc	0.10	0/836	0.29	0/1119
12	Md	0.10	0/1508	0.28	0/2045
12	Me	0.10	0/1508	0.28	0/2045
12	Mf	0.10	0/1508	0.28	0/2045
12	Mg	0.10	0/1508	0.28	0/2045
12	Mh	0.10	0/1508	0.28	0/2045
12	Mi	0.10	0/1508	0.28	0/2045
12	Mj	0.10	0/1508	0.28	0/2045
12	Mk	0.10	0/1508	0.29	0/2045
12	Ml	0.10	0/1508	0.28	0/2045
12	Mm	0.10	0/1508	0.28	0/2045
12	Mn	0.10	0/1508	0.28	0/2045
12	Mo	0.10	0/1508	0.28	0/2045
12	Mp	0.10	0/1508	0.28	0/2045
12	Mq	0.10	0/1508	0.28	0/2045
12	Mr	0.10	0/1508	0.28	0/2045
12	Ms	0.10	0/1508	0.28	0/2045
12	Mt	0.10	0/1508	0.28	0/2045
12	Mu	0.10	0/1508	0.28	0/2045
12	Mv	0.10	0/1508	0.28	0/2045
12	Mw	0.10	0/1508	0.28	0/2045

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
12	Mx	0.10	0/1508	0.28	0/2045
12	My	0.10	0/1508	0.28	0/2045
12	Mz	0.10	0/1508	0.28	0/2045
12	Na	0.10	0/1508	0.28	0/2045
12	Nb	0.10	0/1508	0.28	0/2045
12	Nc	0.10	0/1508	0.28	0/2045
12	Nd	0.10	0/1508	0.28	0/2045
12	Ne	0.10	0/1508	0.28	0/2045
12	Nf	0.10	0/1508	0.28	0/2045
12	Ng	0.10	0/1508	0.28	0/2045
12	Nh	0.10	0/1508	0.28	0/2045
12	Ni	0.10	0/1508	0.28	0/2045
12	Nj	0.10	0/1508	0.28	0/2045
12	Nk	0.10	0/1508	0.28	0/2045
12	Nl	0.10	0/1508	0.28	0/2045
12	Nm	0.10	0/1508	0.28	0/2045
12	Nn	0.10	0/1508	0.28	0/2045
12	No	0.10	0/1508	0.28	0/2045
12	Np	0.10	0/1508	0.28	0/2045
12	Nq	0.10	0/1508	0.28	0/2045
12	Nr	0.10	0/1508	0.28	0/2045
12	Ns	0.10	0/1508	0.28	0/2045
12	Nt	0.10	0/1508	0.28	0/2045
12	Nu	0.10	0/1508	0.28	0/2045
12	Nv	0.10	0/1508	0.28	0/2045
12	Nw	0.10	0/1508	0.28	0/2045
12	Nx	0.10	0/1508	0.28	0/2045
12	Ny	0.10	0/1508	0.28	0/2045
12	Nz	0.10	0/1508	0.28	0/2045
12	Oa	0.10	0/1508	0.28	0/2045
12	Ob	0.10	0/1508	0.28	0/2045
12	Oc	0.10	0/1508	0.28	0/2045
12	Od	0.10	0/1508	0.28	0/2045
12	Oe	0.10	0/1508	0.28	0/2045
12	Of	0.10	0/1508	0.28	0/2045
12	Og	0.10	0/1508	0.28	0/2045
12	Oh	0.10	0/1508	0.28	0/2045
12	Oi	0.10	0/1508	0.28	0/2045
13	Oj	0.11	0/1145	0.30	0/1546
13	Ok	0.12	0/1145	0.30	0/1546
13	Ol	0.12	0/1145	0.29	0/1546
13	Om	0.11	0/1145	0.28	0/1546
13	On	0.10	0/1145	0.27	0/1546

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
13	Oo	0.12	0/1145	0.32	0/1546
13	Op	0.11	0/1145	0.28	0/1546
13	Oq	0.11	0/1145	0.31	0/1546
13	Or	0.11	0/1145	0.27	0/1546
13	Os	0.12	0/1145	0.28	0/1546
13	Ot	0.12	0/1145	0.29	0/1546
13	Ou	0.11	0/1145	0.30	0/1546
13	Ov	0.11	0/1145	0.28	0/1546
13	Ow	0.12	0/1145	0.28	0/1546
13	Ox	0.11	0/1145	0.27	0/1546
13	Oy	0.13	0/1145	0.30	0/1546
13	Oz	0.11	0/1145	0.27	0/1546
13	Pa	0.11	0/1145	0.29	0/1546
13	Pb	0.11	0/1145	0.28	0/1546
13	Pc	0.11	0/1145	0.28	0/1546
13	Pd	0.13	0/1145	0.29	0/1546
13	Pe	0.11	0/1145	0.27	0/1546
13	Pf	0.11	0/1145	0.29	0/1546
13	Pg	0.11	0/1145	0.29	0/1546
13	Ph	0.13	0/1145	0.28	0/1546
13	Pi	0.11	0/1145	0.26	0/1546
13	Pj	0.13	0/1145	0.29	0/1546
13	Pk	0.11	0/1145	0.28	0/1546
13	Pl	0.12	0/1145	0.28	0/1546
13	Pm	0.12	0/1145	0.30	0/1546
13	Pn	0.12	0/1145	0.28	0/1546
13	Po	0.11	0/1145	0.32	0/1546
13	Pp	0.13	0/1145	0.27	0/1546
13	Pq	0.11	0/1145	0.33	0/1546
All	All	0.20	15/583596 (0.0%)	0.28	6/788988 (0.0%)

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	Jx	73	ARG	CG-CD	78.42	3.87	1.52
6	Eo	109	TYR	CD1-CE1	47.31	2.80	1.38
6	Eo	109	TYR	CD2-CE2	44.19	2.71	1.38
6	Eo	109	TYR	CE2-CZ	32.46	2.16	1.38
6	Eo	109	TYR	CE1-CZ	31.94	2.15	1.38
6	Eo	109	TYR	CG-CD2	28.25	1.98	1.39
6	Eo	109	TYR	CG-CD1	28.20	1.98	1.39
6	Eb	109	TYR	CD2-CE2	25.93	2.16	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	Eb	109	TYR	CD1-CE1	25.41	2.14	1.38
11	La	73	ARG	CD-NE	21.72	1.76	1.46
6	Eb	109	TYR	CE1-CZ	19.45	1.84	1.38
6	Eb	109	TYR	CE2-CZ	19.26	1.84	1.38
6	Eb	109	TYR	CG-CD1	17.28	1.75	1.39
6	Eb	109	TYR	CG-CD2	17.14	1.75	1.39
11	La	73	ARG	NE-CZ	15.46	1.50	1.33

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	La	73	ARG	CD-NE-CZ	25.17	159.63	124.40
11	Jx	73	ARG	CB-CG-CD	8.80	131.53	111.30
11	La	73	ARG	CG-CD-NE	7.36	128.20	112.00
11	La	73	ARG	NE-CZ-NH1	5.94	127.44	121.50
11	Jx	73	ARG	CG-CD-NE	5.28	123.61	112.00
6	Eo	109	TYR	CD1-CG-CD2	5.27	126.01	118.10

There are no chirality outliers.

There are no planarity outliers.

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	1969	0	1936	24	0
1	Ab	1969	0	1936	27	0
1	Ac	1969	0	1936	24	0
1	Ad	1969	0	1936	27	0
1	Ae	1969	0	1936	23	0
1	Af	1969	0	1936	22	0
1	Ag	1969	0	1936	20	0
1	Ah	1969	0	1936	31	0
1	Ai	1969	0	1936	25	0
1	Aj	1969	0	1936	29	0
1	Ak	1969	0	1936	28	0
1	Al	1969	0	1936	27	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Am	1966	0	1929	20	0
1	An	1969	0	1936	18	0
1	Ao	1969	0	1936	25	0
1	Ap	1893	0	1860	15	0
1	Aq	1969	0	1936	27	0
1	Ar	1863	0	1834	27	0
1	As	1969	0	1936	28	0
1	At	1889	0	1857	27	0
1	Au	1969	0	1936	16	0
1	Av	1859	0	1831	16	0
1	Aw	1969	0	1936	30	0
1	Ax	1876	0	1845	22	0
1	Ay	1864	0	1837	14	0
1	Az	1873	0	1842	19	0
1	Bb	1900	0	1868	18	0
2	Ba	1811	0	1818	15	0
2	Bc	1870	0	1872	12	0
2	Bd	1833	0	1840	14	0
2	Bv	1737	0	1738	14	0
2	Bw	1868	0	1866	17	0
3	Be	2045	0	1967	15	0
3	Bf	2045	0	1967	18	0
3	Bg	2065	0	1991	13	0
3	Bh	2045	0	1967	7	0
3	Bi	2065	0	1991	7	0
3	Bj	2065	0	1991	16	0
3	Bk	2065	0	1991	11	0
3	Bl	2065	0	1991	17	0
3	Bm	2065	0	1991	22	0
3	Bn	2065	0	1991	14	0
3	Bo	2065	0	1991	16	0
3	Bp	2065	0	1991	10	0
3	Bq	2065	0	1991	21	0
3	Br	2065	0	1991	26	0
3	Bs	2065	0	1991	16	0
3	Bt	2065	0	1991	19	0
3	Bu	2065	0	1991	14	0
4	Bx	1674	0	1609	38	0
4	By	1674	0	1609	35	0
4	Bz	1674	0	1609	36	0
4	Ca	1674	0	1609	36	0
4	Cb	1674	0	1609	34	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	Cc	1674	0	1609	34	0
4	Cd	1674	0	1609	33	0
4	Ce	1674	0	1609	35	0
4	Cf	1674	0	1609	36	0
4	Cg	1674	0	1609	31	0
4	Ch	1674	0	1609	34	0
4	Ci	1674	0	1609	35	0
4	Cj	1674	0	1609	30	0
4	Ck	1674	0	1609	31	0
4	Cl	1674	0	1609	31	0
4	Cm	1674	0	1609	34	0
4	Cn	1674	0	1609	34	0
4	Co	1674	0	1609	32	0
4	Cp	1674	0	1609	34	0
4	Cq	1674	0	1609	32	0
4	Cr	1674	0	1609	34	0
4	Cs	1674	0	1609	33	0
4	Ct	1674	0	1609	36	0
4	Cu	1674	0	1609	41	0
4	Cv	1674	0	1609	37	0
4	Cw	1674	0	1609	39	0
5	Cx	2314	0	2373	35	0
5	Cy	2314	0	2373	32	0
5	Cz	2314	0	2373	33	0
5	Da	2314	0	2373	33	0
5	Db	2314	0	2373	32	0
5	Dc	2314	0	2373	34	0
5	Dd	2314	0	2373	33	0
5	De	2314	0	2373	35	0
5	Df	2314	0	2373	34	0
5	Dg	2314	0	2373	34	0
5	Dh	2314	0	2373	34	0
5	Di	2314	0	2373	33	0
5	Dj	2314	0	2373	33	0
5	Dk	2314	0	2373	34	0
5	Dl	2314	0	2373	33	0
5	Dm	2314	0	2373	34	0
5	Dn	2314	0	2373	32	0
5	Do	2314	0	2373	33	0
5	Dp	2314	0	2373	34	0
5	Dq	2314	0	2373	33	0
5	Dr	2314	0	2373	35	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Ds	2314	0	2373	33	0
5	Dt	2314	0	2373	31	0
5	Du	2314	0	2373	31	0
5	Dv	2314	0	2373	33	0
5	Dw	2314	0	2373	32	0
6	Dx	2770	0	2749	19	0
6	Dy	2770	0	2749	19	0
6	Dz	2770	0	2749	22	0
6	Ea	2770	0	2749	19	0
6	Eb	2770	0	2749	47	0
6	Ec	2770	0	2749	24	0
6	Ed	2770	0	2749	18	0
6	Ee	2770	0	2749	22	0
6	Ef	2770	0	2749	19	0
6	Eg	2770	0	2749	19	0
6	Eh	2770	0	2749	21	0
6	Ei	2770	0	2749	18	0
6	Ej	2770	0	2749	17	0
6	Ek	2770	0	2749	25	0
6	El	2770	0	2749	17	0
6	Em	2770	0	2749	23	0
6	En	2770	0	2749	16	0
6	Eo	2770	0	2749	48	0
6	Ep	2770	0	2749	24	0
6	Eq	2770	0	2749	23	0
6	Er	2770	0	2749	21	0
6	Es	2770	0	2749	17	0
6	Et	2770	0	2749	20	0
6	Eu	2770	0	2749	20	0
6	Ev	2770	0	2749	24	0
6	Ew	2770	0	2749	19	0
7	Ex	2085	0	2022	13	0
7	Ey	2080	0	2003	13	0
7	Ez	2085	0	2022	13	0
7	Fa	2080	0	2003	16	0
7	Fb	2085	0	2022	11	0
7	Fc	2080	0	2003	15	0
7	Fd	2085	0	2022	11	0
7	Fe	2080	0	2003	14	0
7	Ff	2085	0	2022	11	0
7	Fg	2080	0	2003	15	0
7	Fh	2085	0	2022	11	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	Fi	2080	0	2003	13	0
7	Fj	2085	0	2022	12	0
7	Fk	2080	0	2003	17	0
7	Fl	2085	0	2022	11	0
7	Fm	2080	0	2003	15	0
7	Fn	2085	0	2022	9	0
7	Fo	2080	0	2003	12	0
7	Fp	2085	0	2022	11	0
7	Fq	2080	0	2003	15	0
7	Fr	2085	0	2022	14	0
7	Fs	2080	0	2003	14	0
7	Ft	2085	0	2022	13	0
7	Fu	2080	0	2003	15	0
7	Fv	2085	0	2022	12	0
7	Fw	2080	0	2003	14	0
8	Fx	1466	0	1434	10	0
8	Fy	1494	0	1478	9	0
8	Fz	1466	0	1434	8	0
8	Ga	1494	0	1478	12	0
8	Gb	1466	0	1434	13	0
8	Gc	1494	0	1478	9	0
8	Gd	1466	0	1434	10	0
8	Ge	1494	0	1478	10	0
8	Gf	1466	0	1434	10	0
8	Gg	1494	0	1478	10	0
8	Gh	1466	0	1434	12	0
8	Gi	1494	0	1478	11	0
8	Gj	1466	0	1434	13	0
8	Gk	1494	0	1478	8	0
8	Gl	1466	0	1434	13	0
8	Gm	1494	0	1478	9	0
8	Gn	1466	0	1434	11	0
8	Go	1494	0	1478	9	0
8	Gp	1466	0	1434	11	0
8	Gq	1494	0	1478	10	0
8	Gr	1466	0	1434	10	0
8	Gs	1494	0	1478	10	0
8	Gt	1466	0	1434	11	0
8	Gu	1494	0	1478	10	0
8	Gv	1466	0	1434	11	0
8	Gw	1494	0	1478	10	0
9	Gx	105	0	107	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	Gy	105	0	107	2	0
9	Gz	105	0	107	0	0
9	Ha	105	0	107	1	0
9	Hb	105	0	107	2	0
9	Hc	105	0	107	1	0
9	Hd	105	0	107	0	0
9	He	105	0	107	1	0
9	Hf	105	0	107	0	0
9	Hg	105	0	107	2	0
9	Hh	105	0	107	1	0
9	Hi	105	0	107	1	0
9	Hj	105	0	107	1	0
9	Hk	105	0	107	2	0
9	Hl	105	0	107	1	0
9	Hm	105	0	107	0	0
9	Hn	105	0	107	1	0
9	Ho	105	0	107	0	0
9	Hp	105	0	107	2	0
9	Hq	105	0	107	1	0
9	Hr	105	0	107	1	0
9	Hs	105	0	107	1	0
9	Ht	105	0	107	1	0
9	Hu	105	0	107	1	0
9	Hv	105	0	107	1	0
9	Hw	105	0	107	1	0
9	Hx	105	0	107	0	0
9	Hy	105	0	107	1	0
9	Hz	105	0	107	2	0
9	Ia	105	0	107	0	0
9	Ib	105	0	107	0	0
9	Ic	105	0	107	2	0
9	Id	105	0	107	1	0
9	Ie	105	0	107	0	0
9	If	105	0	107	0	0
9	Ig	105	0	107	0	0
9	Ih	105	0	107	0	0
9	Ii	105	0	107	1	0
9	Ij	105	0	107	1	0
9	Ik	105	0	107	0	0
9	Il	105	0	107	1	0
9	Im	105	0	107	0	0
9	In	105	0	107	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	Io	105	0	107	0	0
9	Ip	105	0	107	1	0
9	Iq	105	0	107	0	0
9	Ir	105	0	107	0	0
9	Is	105	0	107	0	0
9	It	105	0	107	3	0
9	Iu	105	0	107	1	0
9	Iv	105	0	107	0	0
9	Iw	105	0	107	1	0
10	Ix	1231	0	1240	15	0
10	Iy	1231	0	1240	16	0
10	Iz	1231	0	1240	15	0
10	Ja	1231	0	1240	15	0
10	Jb	1231	0	1240	13	0
10	Jc	1231	0	1240	16	0
10	Jd	1231	0	1240	12	0
10	Je	1231	0	1240	15	0
10	Jf	1231	0	1240	13	0
10	Jg	1231	0	1240	16	0
10	Jh	1231	0	1240	14	0
10	Ji	1231	0	1240	16	0
10	Jj	1231	0	1240	14	0
10	Jk	1231	0	1240	15	0
10	Jl	1231	0	1240	14	0
10	Jm	1231	0	1240	16	0
10	Jn	1231	0	1240	14	0
10	Jo	1231	0	1240	19	0
10	Jp	1231	0	1240	13	0
10	Jq	1231	0	1240	18	0
10	Jr	1231	0	1240	14	0
10	Js	1231	0	1240	17	0
10	Jt	1231	0	1240	14	0
10	Ju	1231	0	1240	17	0
10	Jv	1231	0	1240	14	0
10	Jw	1231	0	1240	17	0
11	Jx	828	0	820	30	0
11	Jy	828	0	820	11	0
11	Jz	828	0	820	10	0
11	Ka	828	0	820	9	0
11	Kb	828	0	820	11	0
11	Kc	828	0	820	9	0
11	Kd	828	0	820	9	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	Ke	828	0	820	8	0
11	Kf	828	0	820	8	0
11	Kg	828	0	820	11	0
11	Kh	828	0	820	10	0
11	Ki	828	0	820	10	0
11	Kj	828	0	820	12	0
11	Kk	828	0	820	9	0
11	Kl	828	0	820	10	0
11	Km	828	0	820	8	0
11	Kn	828	0	820	8	0
11	Ko	828	0	820	9	0
11	Kp	828	0	820	8	0
11	Kq	828	0	820	8	0
11	Kr	828	0	820	10	0
11	Ks	828	0	820	11	0
11	Kt	828	0	820	11	0
11	Ku	828	0	820	9	0
11	Kv	828	0	820	8	0
11	Kw	828	0	820	8	0
11	Kx	828	0	820	8	0
11	Ky	828	0	820	9	0
11	Kz	828	0	820	9	0
11	La	828	0	820	36	0
11	Lb	828	0	820	10	0
11	Lc	828	0	820	9	0
11	Ld	828	0	820	9	0
11	Le	828	0	820	11	0
11	Lf	828	0	820	10	0
11	Lg	828	0	820	9	0
11	Lh	828	0	820	8	0
11	Li	828	0	820	7	0
11	Lj	828	0	820	9	0
11	Lk	828	0	820	10	0
11	Ll	828	0	820	10	0
11	Lm	828	0	820	10	0
11	Ln	828	0	820	9	0
11	Lo	828	0	820	8	0
11	Lp	828	0	820	9	0
11	Lq	828	0	820	9	0
11	Lr	828	0	820	9	0
11	Ls	828	0	820	8	0
11	Lt	828	0	820	9	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	Lu	828	0	820	9	0
11	Lv	828	0	820	10	0
11	Lw	828	0	820	9	0
11	Lx	828	0	820	7	0
11	Ly	828	0	820	6	0
11	Lz	828	0	820	8	0
11	Ma	828	0	820	8	0
11	Mb	828	0	820	7	0
11	Mc	828	0	820	8	0
12	Md	1482	0	1448	13	0
12	Me	1482	0	1448	14	0
12	Mf	1482	0	1448	14	0
12	Mg	1482	0	1448	13	0
12	Mh	1482	0	1448	13	0
12	Mi	1482	0	1448	13	0
12	Mj	1482	0	1448	13	0
12	Mk	1482	0	1448	13	0
12	Ml	1482	0	1448	14	0
12	Mm	1482	0	1448	13	0
12	Mn	1482	0	1448	14	0
12	Mo	1482	0	1448	13	0
12	Mp	1482	0	1448	14	0
12	Mq	1482	0	1448	13	0
12	Mr	1482	0	1448	13	0
12	Ms	1482	0	1448	13	0
12	Mt	1482	0	1448	13	0
12	Mu	1482	0	1448	13	0
12	Mv	1482	0	1448	13	0
12	Mw	1482	0	1448	13	0
12	Mx	1482	0	1448	13	0
12	My	1482	0	1448	13	0
12	Mz	1482	0	1448	14	0
12	Na	1482	0	1448	13	0
12	Nb	1482	0	1448	14	0
12	Nc	1482	0	1448	13	0
12	Nd	1482	0	1448	13	0
12	Ne	1482	0	1448	13	0
12	Nf	1482	0	1448	13	0
12	Ng	1482	0	1448	14	0
12	Nh	1482	0	1448	14	0
12	Ni	1482	0	1448	14	0
12	Nj	1482	0	1448	13	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	Nk	1482	0	1448	13	0
12	Nl	1482	0	1448	13	0
12	Nm	1482	0	1448	13	0
12	Nn	1482	0	1448	13	0
12	No	1482	0	1448	14	0
12	Np	1482	0	1448	13	0
12	Nq	1482	0	1448	14	0
12	Nr	1482	0	1448	13	0
12	Ns	1482	0	1448	13	0
12	Nt	1482	0	1448	13	0
12	Nu	1482	0	1448	13	0
12	Nv	1482	0	1448	14	0
12	Nw	1482	0	1448	13	0
12	Nx	1482	0	1448	14	0
12	Ny	1482	0	1448	13	0
12	Nz	1482	0	1448	14	0
12	Oa	1482	0	1448	13	0
12	Ob	1482	0	1448	13	0
12	Oc	1482	0	1448	13	0
12	Od	1482	0	1448	13	0
12	Oe	1482	0	1448	13	0
12	Of	1482	0	1448	13	0
12	Og	1482	0	1448	13	0
12	Oh	1482	0	1448	14	0
12	Oi	1482	0	1448	13	0
13	Oj	1134	0	1129	17	0
13	Ok	1134	0	1129	13	0
13	Ol	1134	0	1129	12	0
13	Om	1134	0	1129	9	0
13	On	1134	0	1129	11	0
13	Oo	1134	0	1129	13	0
13	Op	1134	0	1129	12	0
13	Oq	1134	0	1129	16	0
13	Or	1134	0	1129	16	0
13	Os	1134	0	1129	17	0
13	Ot	1134	0	1129	17	0
13	Ou	1134	0	1129	11	0
13	Ov	1134	0	1129	6	0
13	Ow	1134	0	1129	12	0
13	Ox	1134	0	1129	11	0
13	Oy	1134	0	1129	12	0
13	Oz	1134	0	1129	20	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	Pa	1134	0	1129	16	0
13	Pb	1134	0	1129	14	0
13	Pc	1134	0	1129	12	0
13	Pd	1134	0	1129	11	0
13	Pe	1134	0	1129	14	0
13	Pf	1134	0	1129	17	0
13	Pg	1134	0	1129	18	0
13	Ph	1134	0	1129	15	0
13	Pi	1134	0	1129	12	0
13	Pj	1134	0	1129	18	0
13	Pk	1134	0	1129	17	0
13	Pl	1134	0	1129	11	0
13	Pm	1134	0	1129	9	0
13	Pn	1134	0	1129	14	0
13	Po	1134	0	1129	14	0
13	Pp	1134	0	1129	22	0
13	Pq	1134	0	1129	20	0
All	All	574924	0	567381	4800	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 4.

All (4800) 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)
6:Eb:109:TYR:CD1	6:Eb:109:TYR:CG	1.75	1.72
6:Eb:109:TYR:CE2	6:Eb:109:TYR:CZ	1.84	1.66
6:Eb:109:TYR:CG	6:Eb:109:TYR:CD2	1.75	1.65
6:Eb:109:TYR:CZ	6:Eb:109:TYR:CE1	1.84	1.62
6:Eo:109:TYR:CG	6:Eo:109:TYR:CD1	1.98	1.51
6:Eo:109:TYR:CG	6:Eo:109:TYR:CD2	1.98	1.49
11:La:73:ARG:NE	11:La:73:ARG:CD	1.76	1.46
6:Eb:109:TYR:CD1	6:Eb:109:TYR:CE1	2.14	1.35
6:Eo:109:TYR:CZ	6:Eo:109:TYR:CE2	2.16	1.33
6:Eo:109:TYR:CZ	6:Eo:109:TYR:CE1	2.14	1.33
6:Eb:109:TYR:CE2	6:Eb:109:TYR:CD2	2.16	1.32
6:Eo:109:TYR:CE2	11:La:73:ARG:NE	2.19	1.10
6:Eo:109:TYR:CD2	11:La:73:ARG:NE	2.23	1.06
6:Eo:109:TYR:CZ	11:La:73:ARG:NE	2.26	1.03
6:Eo:109:TYR:CE1	11:La:73:ARG:NE	2.36	0.94
6:Eo:109:TYR:CG	11:La:73:ARG:NE	2.41	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Eo:109:TYR:CD1	11:La:73:ARG:NE	2.41	0.88
6:Eo:109:TYR:CD2	6:Eo:109:TYR:CE2	2.71	0.79
6:Eo:109:TYR:CD1	11:La:73:ARG:CD	2.66	0.77
6:Eo:109:TYR:CD1	11:La:73:ARG:CZ	2.69	0.76
6:Eo:109:TYR:CE1	11:La:73:ARG:HD3	2.20	0.76
6:Eb:109:TYR:CE1	11:Jx:73:ARG:CG	2.71	0.74
1:Ac:25:ASN:HD21	1:Ac:37:GLY:H	1.36	0.74
6:Eb:109:TYR:CD2	11:Jx:73:ARG:CD	2.71	0.74
6:Eb:109:TYR:CZ	11:Jx:73:ARG:CG	2.71	0.74
6:Eb:109:TYR:CE1	11:Jx:73:ARG:CD	2.71	0.74
6:Eb:109:TYR:CD1	11:Jx:73:ARG:CD	2.71	0.73
6:Eo:109:TYR:CE1	11:La:73:ARG:CD	2.71	0.73
6:Eb:109:TYR:CZ	11:Jx:73:ARG:CD	2.72	0.73
6:Eb:109:TYR:CD1	11:Jx:73:ARG:CG	2.72	0.73
6:Eb:109:TYR:CE2	11:Jx:73:ARG:CG	2.72	0.72
6:Eb:109:TYR:CE2	11:Jx:73:ARG:CD	2.72	0.72
6:Eo:109:TYR:CE1	11:La:73:ARG:CZ	2.73	0.72
6:Eo:81:ALA:HB1	11:La:77:ARG:HH22	1.57	0.70
1:Am:141:ILE:HD11	1:Am:174:ILE:HD11	1.74	0.70
4:Ct:125:LEU:HB3	4:Cw:244:MET:HE3	1.73	0.69
6:Eo:109:TYR:CD1	6:Eo:109:TYR:CE1	2.80	0.69
13:Ow:283:ILE:HG13	13:Ow:284:PRO:HD3	1.74	0.69
1:Al:216:ARG:HB3	1:Al:219:MET:HE3	1.74	0.69
6:Eb:109:TYR:CD2	11:Jx:73:ARG:CG	2.75	0.69
6:Er:109:TYR:HB3	11:Lg:77:ARG:HH22	1.58	0.69
6:Eb:109:TYR:CG	11:Jx:73:ARG:CD	2.76	0.68
1:Ar:259:ASN:HD21	2:Bw:223:ARG:HH21	1.40	0.68
3:Bl:4:VAL:HG13	3:Bl:57:GLY:HA2	1.76	0.68
1:Az:38:ARG:HD3	2:Ba:76:ARG:HH22	1.57	0.68
5:Da:25:ALA:HB2	5:Da:186:LEU:HD23	1.76	0.67
5:Dc:25:ALA:HB2	5:Dc:186:LEU:HD23	1.77	0.67
5:De:25:ALA:HB2	5:De:186:LEU:HD23	1.77	0.67
6:Eb:109:TYR:CG	11:Jx:73:ARG:CG	2.78	0.67
5:Db:25:ALA:HB2	5:Db:186:LEU:HD23	1.77	0.67
5:Dd:25:ALA:HB2	5:Dd:186:LEU:HD23	1.77	0.67
1:Ad:97:ILE:HG12	1:Ad:215:ILE:HG12	1.76	0.67
1:Ab:25:ASN:HB3	1:Ab:225:VAL:HG21	1.77	0.67
5:Cz:25:ALA:HB2	5:Cz:186:LEU:HD23	1.77	0.67
5:Cy:25:ALA:HB2	5:Cy:186:LEU:HD23	1.76	0.67
5:Dg:25:ALA:HB2	5:Dg:186:LEU:HD23	1.76	0.67
5:Dj:25:ALA:HB2	5:Dj:186:LEU:HD23	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Pf:283:ILE:HG13	13:Pf:284:PRO:HD3	1.76	0.67
1:Ag:50:ASN:HB3	1:Ag:66:LEU:H	1.59	0.67
5:Dm:25:ALA:HB2	5:Dm:186:LEU:HD23	1.76	0.67
1:Am:1:MET:HG2	1:An:16:GLN:HE22	1.60	0.66
5:Dk:25:ALA:HB2	5:Dk:186:LEU:HD23	1.77	0.66
5:Do:25:ALA:HB2	5:Do:186:LEU:HD23	1.77	0.66
5:Dq:25:ALA:HB2	5:Dq:186:LEU:HD23	1.76	0.66
6:Eo:109:TYR:CG	11:La:73:ARG:HD2	2.30	0.66
11:Li:78:ALA:HB3	11:Lj:91:ALA:HB3	1.77	0.66
1:Ax:25:ASN:HD21	1:Ax:37:GLY:H	1.44	0.66
2:Bd:29:VAL:HG23	2:Bd:209:VAL:HB	1.78	0.66
3:Be:23:ILE:HD11	3:Bu:419:ALA:HB1	1.76	0.66
5:Df:25:ALA:HB2	5:Df:186:LEU:HD23	1.77	0.66
5:Dn:25:ALA:HB2	5:Dn:186:LEU:HD23	1.77	0.66
5:Di:25:ALA:HB2	5:Di:186:LEU:HD23	1.76	0.66
1:Ah:5:LEU:HD12	1:Ah:248:ILE:HD11	1.77	0.66
5:Dl:25:ALA:HB2	5:Dl:186:LEU:HD23	1.77	0.66
5:Dp:25:ALA:HB2	5:Dp:186:LEU:HD23	1.77	0.66
4:Bz:125:LEU:HB3	4:Cc:244:MET:HE3	1.78	0.66
3:Bq:418:ARG:HG2	3:Bs:431:LEU:HD22	1.78	0.66
5:Dh:25:ALA:HB2	5:Dh:186:LEU:HD23	1.77	0.66
5:Cx:25:ALA:HB2	5:Cx:186:LEU:HD23	1.77	0.65
5:Dr:25:ALA:HB2	5:Dr:186:LEU:HD23	1.77	0.65
5:Du:25:ALA:HB2	5:Du:186:LEU:HD23	1.77	0.65
5:Dv:25:ALA:HB2	5:Dv:186:LEU:HD23	1.77	0.65
3:Bm:411:ARG:HH12	3:Bo:424:ASN:HA	1.61	0.65
4:Ce:125:LEU:HB3	4:Ch:244:MET:HE3	1.76	0.65
5:Ds:25:ALA:HB2	5:Ds:186:LEU:HD23	1.77	0.65
1:Ac:165:GLN:HG2	1:Ac:169:GLN:HE22	1.61	0.65
2:Bw:29:VAL:HG23	2:Bw:209:VAL:HB	1.78	0.65
1:Aw:22:ILE:HG21	1:Aw:234:MET:HB2	1.78	0.65
3:Bj:322:LYS:HB3	3:Bj:334:THR:HB	1.77	0.65
5:Dw:25:ALA:HB2	5:Dw:186:LEU:HD23	1.77	0.65
5:Dt:25:ALA:HB2	5:Dt:186:LEU:HD23	1.77	0.65
1:As:33:GLY:HA2	1:As:116:ARG:HE	1.62	0.65
1:Ad:80:VAL:HG13	1:Ah:91:ASN:HD21	1.62	0.64
6:Em:83:HIS:H	11:Kw:73:ARG:HH12	1.45	0.64
1:Ac:144:PRO:HG2	1:Ac:147:ALA:HB2	1.79	0.64
1:At:150:ILE:HG22	1:At:160:VAL:HG12	1.78	0.64
1:Av:209:LEU:HA	1:Az:163:ARG:HH12	1.62	0.64
3:Bn:38:PHE:HB2	3:Bo:28:THR:HG22	1.78	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Eo:109:TYR:CG	11:La:73:ARG:CZ	2.79	0.64
6:Es:81:ALA:HB1	11:Lj:77:ARG:HH22	1.62	0.64
13:Pj:432:ILE:HG23	13:Pj:437:TYR:HB3	1.79	0.64
1:Ai:35:LYS:HD3	1:Ai:81:HIS:HA	1.80	0.64
1:Ai:50:ASN:HB2	1:Ai:66:LEU:H	1.62	0.64
1:Am:52:PRO:HB2	1:An:196:THR:HG21	1.80	0.63
3:Bf:121:ASN:HD21	3:Bf:362:GLY:HA3	1.63	0.63
11:Lx:78:ALA:HB3	11:Ly:91:ALA:HB3	1.81	0.63
11:Lk:77:ARG:HH12	11:Ll:73:ARG:HH21	1.46	0.63
1:At:44:LEU:HB2	1:At:70:ALA:HB3	1.81	0.63
6:Et:271:LEU:HD21	9:It:145:PHE:HB3	1.81	0.63
11:Ls:78:ALA:HB3	11:Lt:91:ALA:HB3	1.79	0.63
13:Oq:283:ILE:HG13	13:Oq:284:PRO:HD3	1.79	0.63
13:Pl:384:HIS:HB3	13:Pm:305:GLU:HB2	1.81	0.63
11:Ku:78:ALA:HB3	11:Kv:91:ALA:HB3	1.81	0.63
13:Ok:285:ILE:HG21	13:Ok:427:ILE:HD11	1.81	0.63
1:Au:53:GLY:HA2	1:Au:61:ARG:HB3	1.81	0.63
3:Bq:4:VAL:HG13	3:Bq:57:GLY:HA2	1.81	0.63
3:Bs:33:GLU:HB3	3:Bs:397:ILE:HG22	1.80	0.63
1:Al:117:ASN:HB2	1:Al:191:ASN:HD22	1.64	0.63
3:Bm:33:GLU:HB3	3:Bm:397:ILE:HG22	1.81	0.63
12:Mv:156:ARG:HE	12:Mv:192:LEU:HD13	1.64	0.63
12:Ny:156:ARG:HE	12:Ny:192:LEU:HD13	1.64	0.63
1:Aj:36:LYS:HB3	1:Aj:225:VAL:HG22	1.81	0.63
4:Cq:125:LEU:HB3	4:Ct:244:MET:HE3	1.81	0.63
12:Mf:156:ARG:HE	12:Mf:192:LEU:HD13	1.64	0.63
12:Ng:156:ARG:HE	12:Ng:192:LEU:HD13	1.64	0.63
1:Ac:261:GLN:HE22	1:Aj:246:LYS:HD3	1.64	0.62
1:Ae:85:ASN:HA	3:Bs:56:GLN:HB3	1.81	0.62
1:Al:104:GLN:HE21	1:Al:177:VAL:HG13	1.64	0.62
1:Au:36:LYS:HD2	1:Au:225:VAL:HA	1.80	0.62
11:Kf:78:ALA:HB3	11:Kg:91:ALA:HB3	1.81	0.62
12:Mk:156:ARG:HE	12:Mk:192:LEU:HD13	1.64	0.62
12:Ni:156:ARG:HE	12:Ni:192:LEU:HD13	1.64	0.62
12:Nt:156:ARG:HE	12:Nt:192:LEU:HD13	1.64	0.62
3:Bp:358:ASP:HB3	3:Bp:366:ASP:HB3	1.81	0.62
4:Bx:125:LEU:HB3	4:Ca:244:MET:HE3	1.81	0.62
6:Dx:226:VAL:HB	6:Dx:236:MET:HB3	1.81	0.62
12:Mh:156:ARG:HE	12:Mh:192:LEU:HD13	1.64	0.62
12:Nl:156:ARG:HE	12:Nl:192:LEU:HD13	1.65	0.62
12:Nq:156:ARG:HE	12:Nq:192:LEU:HD13	1.65	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Oi:156:ARG:HE	12:Oi:192:LEU:HD13	1.64	0.62
4:Cs:232:ARG:HH22	4:Ct:194:GLU:HG3	1.65	0.62
11:Kw:78:ALA:HB3	11:Kx:91:ALA:HB3	1.80	0.62
11:Ky:78:ALA:HB3	11:Kz:91:ALA:HB3	1.81	0.62
12:Mp:156:ARG:HE	12:Mp:192:LEU:HD13	1.64	0.62
12:Mt:40:ASN:HD22	12:Mt:41:GLY:H	1.47	0.62
12:Nw:156:ARG:HE	12:Nw:192:LEU:HD13	1.64	0.62
1:Ar:85:ASN:HD22	1:Ar:86:VAL:H	1.45	0.62
1:Av:144:PRO:HG2	1:Av:147:ALA:HB2	1.82	0.62
12:Ms:156:ARG:HE	12:Ms:192:LEU:HD13	1.64	0.62
12:Na:40:ASN:HD22	12:Na:41:GLY:H	1.48	0.62
12:Nd:156:ARG:HE	12:Nd:192:LEU:HD13	1.64	0.62
12:Mn:156:ARG:HE	12:Mn:192:LEU:HD13	1.65	0.62
12:Nf:40:ASN:HD22	12:Nf:41:GLY:H	1.48	0.62
12:Nn:156:ARG:HE	12:Nn:192:LEU:HD13	1.64	0.62
12:Nv:156:ARG:HE	12:Nv:192:LEU:HD13	1.64	0.62
12:Od:156:ARG:HE	12:Od:192:LEU:HD13	1.65	0.62
1:Aq:35:LYS:HD3	1:Aq:81:HIS:HA	1.82	0.62
2:Bc:80:ILE:HD11	2:Bc:199:ILE:HD12	1.82	0.62
4:Bx:244:MET:HE3	4:Cu:125:LEU:HB3	1.81	0.62
4:By:244:MET:HE3	4:Cv:125:LEU:HB3	1.82	0.62
4:Ca:125:LEU:HB3	4:Cd:244:MET:HE3	1.82	0.62
4:Cn:125:LEU:HB3	4:Cq:244:MET:HE3	1.82	0.62
4:Ct:232:ARG:HH22	4:Cu:194:GLU:HG3	1.65	0.62
12:Mv:40:ASN:HD22	12:Mv:41:GLY:H	1.48	0.62
12:Oe:156:ARG:HE	12:Oe:192:LEU:HD13	1.64	0.62
13:Os:283:ILE:HG13	13:Os:284:PRO:HD3	1.82	0.62
4:Cm:125:LEU:HB3	4:Cp:244:MET:HE3	1.82	0.62
11:Lf:78:ALA:HB3	11:Lg:91:ALA:HB3	1.81	0.62
12:My:40:ASN:HD22	12:My:41:GLY:H	1.48	0.62
12:Na:156:ARG:HE	12:Na:192:LEU:HD13	1.65	0.62
12:Nd:40:ASN:HD22	12:Nd:41:GLY:H	1.48	0.62
12:Og:156:ARG:HE	12:Og:192:LEU:HD13	1.64	0.62
13:Pi:396:THR:HG22	13:Pi:444:LEU:HB2	1.81	0.62
4:Cj:125:LEU:HB3	4:Cm:244:MET:HE3	1.82	0.62
6:Eo:109:TYR:CD2	11:La:73:ARG:CZ	2.83	0.62
6:Eo:109:TYR:CZ	11:La:73:ARG:CZ	2.82	0.62
12:Md:156:ARG:HE	12:Md:192:LEU:HD13	1.64	0.62
12:Mi:156:ARG:HE	12:Mi:192:LEU:HD13	1.64	0.62
12:Mj:40:ASN:HD22	12:Mj:41:GLY:H	1.47	0.62
12:Mm:156:ARG:HE	12:Mm:192:LEU:HD13	1.65	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Mq:40:ASN:HD22	12:Mq:41:GLY:H	1.48	0.62
12:Mx:156:ARG:HE	12:Mx:192:LEU:HD13	1.65	0.62
12:Nf:156:ARG:HE	12:Nf:192:LEU:HD13	1.64	0.62
12:Nj:156:ARG:HE	12:Nj:192:LEU:HD13	1.64	0.62
12:No:156:ARG:HE	12:No:192:LEU:HD13	1.65	0.62
1:Ac:50:ASN:HB3	1:Ac:66:LEU:H	1.64	0.62
1:Ai:162:VAL:HB	1:Ai:165:GLN:HE22	1.65	0.62
1:Am:103:PHE:HB2	1:Am:115:SER:O	2.00	0.62
4:Cr:125:LEU:HB3	4:Cu:244:MET:HE3	1.82	0.62
8:Gj:168:TYR:HB2	8:Gj:196:MET:HE1	1.82	0.62
11:Lt:78:ALA:HB3	11:Lu:91:ALA:HB3	1.82	0.62
12:Mo:40:ASN:HD22	12:Mo:41:GLY:H	1.48	0.62
12:Mq:156:ARG:HE	12:Mq:192:LEU:HD13	1.64	0.62
12:Nh:40:ASN:HD22	12:Nh:41:GLY:H	1.48	0.62
12:Nr:156:ARG:HE	12:Nr:192:LEU:HD13	1.64	0.62
12:Ob:156:ARG:HE	12:Ob:192:LEU:HD13	1.65	0.62
1:An:49:ILE:HB	1:An:66:LEU:HB3	1.82	0.62
4:Bz:244:MET:HE3	4:Cw:125:LEU:HB3	1.82	0.62
4:Cl:125:LEU:HB3	4:Co:244:MET:HE3	1.82	0.62
4:Cv:232:ARG:HH22	4:Cw:194:GLU:HG3	1.64	0.62
6:Eo:109:TYR:CD1	11:La:73:ARG:NH1	2.67	0.62
12:Nc:40:ASN:HD22	12:Nc:41:GLY:H	1.48	0.62
12:Nk:40:ASN:HD22	12:Nk:41:GLY:H	1.48	0.62
12:Nm:40:ASN:HD22	12:Nm:41:GLY:H	1.48	0.62
12:Of:156:ARG:HE	12:Of:192:LEU:HD13	1.64	0.62
12:Oh:156:ARG:HE	12:Oh:192:LEU:HD13	1.64	0.62
1:Ag:97:ILE:HG12	1:Ag:215:ILE:HG12	1.82	0.61
1:Aw:98:GLU:O	1:Aw:213:GLY:HA3	1.99	0.61
7:Fj:49:VAL:HG12	7:Fj:59:GLU:HG2	1.82	0.61
12:Mz:156:ARG:HE	12:Mz:192:LEU:HD13	1.64	0.61
12:Ni:40:ASN:HD22	12:Ni:41:GLY:H	1.48	0.61
12:Oa:156:ARG:HE	12:Oa:192:LEU:HD13	1.65	0.61
13:Ot:283:ILE:HG13	13:Ot:284:PRO:HD3	1.81	0.61
13:Ou:396:THR:HG22	13:Ou:444:LEU:HB2	1.82	0.61
3:Bf:22:ASN:HD21	3:Bf:34:SER:H	1.46	0.61
4:Bx:232:ARG:HH22	4:By:194:GLU:HG3	1.64	0.61
4:Cb:125:LEU:HB3	4:Ce:244:MET:HE3	1.82	0.61
4:Cc:125:LEU:HB3	4:Cf:244:MET:HE3	1.82	0.61
4:Co:125:LEU:HB3	4:Cr:244:MET:HE3	1.82	0.61
12:Mu:156:ARG:HE	12:Mu:192:LEU:HD13	1.65	0.61
12:Mx:40:ASN:HD22	12:Mx:41:GLY:H	1.48	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Nk:156:ARG:HE	12:Nk:192:LEU:HD13	1.64	0.61
12:Nu:156:ARG:HE	12:Nu:192:LEU:HD13	1.64	0.61
4:Ch:125:LEU:HB3	4:Ck:244:MET:HE3	1.82	0.61
4:Ck:125:LEU:HB3	4:Cn:244:MET:HE3	1.82	0.61
4:Cr:232:ARG:HH22	4:Cs:194:GLU:HG3	1.66	0.61
7:Fl:49:VAL:HG12	7:Fl:59:GLU:HG2	1.82	0.61
11:Lq:78:ALA:HB3	11:Lr:91:ALA:HB3	1.83	0.61
11:Lz:78:ALA:HB3	11:Ma:91:ALA:HB3	1.82	0.61
12:Ms:40:ASN:HD22	12:Ms:41:GLY:H	1.48	0.61
12:Mt:156:ARG:HE	12:Mt:192:LEU:HD13	1.64	0.61
12:My:156:ARG:HE	12:My:192:LEU:HD13	1.65	0.61
12:Nb:156:ARG:HE	12:Nb:192:LEU:HD13	1.65	0.61
12:Ns:156:ARG:HE	12:Ns:192:LEU:HD13	1.65	0.61
1:Ar:246:LYS:HD2	1:As:262:LEU:HB2	1.82	0.61
2:Bv:80:ILE:HD11	2:Bv:199:ILE:HD12	1.83	0.61
4:By:232:ARG:HH22	4:Bz:194:GLU:HG3	1.64	0.61
12:Me:156:ARG:HE	12:Me:192:LEU:HD13	1.65	0.61
12:Mj:156:ARG:HE	12:Mj:192:LEU:HD13	1.65	0.61
12:Mw:156:ARG:HE	12:Mw:192:LEU:HD13	1.64	0.61
1:Ap:80:VAL:HG22	2:Bw:76:ARG:HH21	1.65	0.61
4:By:125:LEU:HB3	4:Cb:244:MET:HE3	1.83	0.61
4:Cq:232:ARG:HH22	4:Cr:194:GLU:HG3	1.65	0.61
4:Cs:125:LEU:HB3	4:Cv:244:MET:HE3	1.83	0.61
7:Fb:49:VAL:HG12	7:Fb:59:GLU:HG2	1.83	0.61
7:Ff:49:VAL:HG12	7:Ff:59:GLU:HG2	1.83	0.61
7:Fh:49:VAL:HG12	7:Fh:59:GLU:HG2	1.83	0.61
8:Gm:148:ILE:HD12	8:Gm:184:ARG:HE	1.66	0.61
11:Lm:78:ALA:HB3	11:Ln:91:ALA:HB3	1.82	0.61
11:Lo:78:ALA:HB3	11:Lp:91:ALA:HB3	1.81	0.61
12:Mr:156:ARG:HE	12:Mr:192:LEU:HD13	1.64	0.61
12:Nx:156:ARG:HE	12:Nx:192:LEU:HD13	1.65	0.61
4:Ci:125:LEU:HB3	4:Cl:244:MET:HE3	1.82	0.61
4:Cm:232:ARG:HH22	4:Cn:194:GLU:HG3	1.64	0.61
4:Cp:232:ARG:HH22	4:Cq:194:GLU:HG3	1.65	0.61
12:Ml:40:ASN:HD22	12:Ml:41:GLY:H	1.48	0.61
1:Ae:77:THR:HG21	3:Bq:54:PRO:HG3	1.83	0.61
1:Ay:78:GLN:HB3	2:Bd:76:ARG:HH22	1.65	0.61
4:Bx:194:GLU:HG3	4:Cw:232:ARG:HH22	1.65	0.61
4:Cg:125:LEU:HB3	4:Cj:244:MET:HE3	1.82	0.61
6:Eo:109:TYR:CG	11:La:73:ARG:CD	2.83	0.61
7:Fp:49:VAL:HG12	7:Fp:59:GLU:HG2	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Nc:156:ARG:HE	12:Nc:192:LEU:HD13	1.65	0.61
12:Nn:40:ASN:HD22	12:Nn:41:GLY:H	1.48	0.61
12:Nr:40:ASN:HD22	12:Nr:41:GLY:H	1.48	0.61
13:Ot:385:GLU:HG2	13:Ou:304:VAL:HG22	1.83	0.61
1:Ar:258:VAL:HG22	2:Bv:229:VAL:HG21	1.82	0.61
3:Bo:68:HIS:HB3	3:Bo:396:ASN:HD22	1.65	0.61
4:Ck:232:ARG:HH22	4:Cl:194:GLU:HG3	1.66	0.61
4:Cp:125:LEU:HB3	4:Cs:244:MET:HE3	1.81	0.61
6:Et:80:PHE:HA	9:Ht:136:VAL:HG21	1.83	0.61
11:Kh:77:ARG:HH12	11:Ki:73:ARG:HH21	1.47	0.61
12:Np:40:ASN:HD22	12:Np:41:GLY:H	1.48	0.61
4:Bz:232:ARG:HH22	4:Ca:194:GLU:HG3	1.65	0.61
4:Cj:232:ARG:HH22	4:Ck:194:GLU:HG3	1.65	0.61
7:Fn:49:VAL:HG12	7:Fn:59:GLU:HG2	1.83	0.61
13:Oq:385:GLU:HG2	13:Or:304:VAL:HG22	1.83	0.61
13:Ph:396:THR:HG22	13:Ph:444:LEU:HB2	1.82	0.61
2:Bv:29:VAL:HG23	2:Bv:209:VAL:HB	1.82	0.61
4:Cl:232:ARG:HH22	4:Cm:194:GLU:HG3	1.66	0.61
4:Cu:232:ARG:HH22	4:Cv:194:GLU:HG3	1.66	0.61
6:Eo:109:TYR:CE1	11:La:73:ARG:NH1	2.68	0.61
7:Fr:49:VAL:HG12	7:Fr:59:GLU:HG2	1.83	0.61
8:Gn:168:TYR:HB2	8:Gn:196:MET:HE1	1.82	0.61
12:Mh:40:ASN:HD22	12:Mh:41:GLY:H	1.48	0.61
12:Mo:156:ARG:HE	12:Mo:192:LEU:HD13	1.65	0.61
12:Mz:40:ASN:HD22	12:Mz:41:GLY:H	1.48	0.61
12:Ne:40:ASN:HD22	12:Ne:41:GLY:H	1.48	0.61
12:Ng:40:ASN:HD22	12:Ng:41:GLY:H	1.47	0.61
12:Nm:156:ARG:HE	12:Nm:192:LEU:HD13	1.65	0.61
12:No:40:ASN:HD22	12:No:41:GLY:H	1.48	0.61
12:Nw:40:ASN:HD22	12:Nw:41:GLY:H	1.48	0.61
12:Oc:156:ARG:HE	12:Oc:192:LEU:HD13	1.65	0.61
1:Ax:226:ASN:HB2	1:Ax:229:GLU:HB2	1.82	0.60
4:Cc:232:ARG:HH22	4:Cd:194:GLU:HG3	1.64	0.60
6:Ea:80:PHE:HA	9:Ha:136:VAL:HG21	1.84	0.60
8:Gk:148:ILE:HD12	8:Gk:184:ARG:HE	1.66	0.60
12:Mn:40:ASN:HD22	12:Mn:41:GLY:H	1.48	0.60
12:Mr:40:ASN:HD22	12:Mr:41:GLY:H	1.48	0.60
12:Nj:40:ASN:HD22	12:Nj:41:GLY:H	1.48	0.60
13:Pa:297:ILE:HG12	13:Pa:395:GLN:HG2	1.82	0.60
3:Bg:33:GLU:H	3:Bg:396:ASN:HD21	1.47	0.60
7:Ex:49:VAL:HG12	7:Ex:59:GLU:HG2	1.83	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Gp:168:TYR:HB2	8:Gp:196:MET:HE1	1.83	0.60
12:Ml:156:ARG:HE	12:Ml:192:LEU:HD13	1.65	0.60
12:Mw:40:ASN:HD22	12:Mw:41:GLY:H	1.48	0.60
12:Ne:156:ARG:HE	12:Ne:192:LEU:HD13	1.64	0.60
12:Nt:40:ASN:HD22	12:Nt:41:GLY:H	1.48	0.60
12:Oi:40:ASN:HD22	12:Oi:41:GLY:H	1.48	0.60
1:Au:148:ILE:HB	1:Au:161:ARG:HB2	1.83	0.60
4:Ca:232:ARG:HH22	4:Cb:194:GLU:HG3	1.66	0.60
4:Ci:232:ARG:HH22	4:Cj:194:GLU:HG3	1.66	0.60
7:Fd:49:VAL:HG12	7:Fd:59:GLU:HG2	1.83	0.60
8:Fx:168:TYR:HB2	8:Fx:196:MET:HE1	1.83	0.60
8:Ga:65:ARG:HD3	8:Ga:69:ILE:HD13	1.84	0.60
12:Mm:40:ASN:HD22	12:Mm:41:GLY:H	1.48	0.60
12:Mu:40:ASN:HD22	12:Mu:41:GLY:H	1.48	0.60
12:Ny:40:ASN:HD22	12:Ny:41:GLY:H	1.48	0.60
12:Nz:156:ARG:HE	12:Nz:192:LEU:HD13	1.64	0.60
13:Pq:324:LEU:HB3	13:Pq:371:GLU:HB2	1.82	0.60
1:Am:166:GLN:HB2	4:Ct:128:LYS:HE2	1.84	0.60
7:Ez:49:VAL:HG12	7:Ez:59:GLU:HG2	1.83	0.60
7:Ft:49:VAL:HG12	7:Ft:59:GLU:HG2	1.83	0.60
12:Me:40:ASN:HD22	12:Me:41:GLY:H	1.48	0.60
12:Mg:40:ASN:HD22	12:Mg:41:GLY:H	1.48	0.60
12:Mg:156:ARG:HE	12:Mg:192:LEU:HD13	1.64	0.60
12:Nb:40:ASN:HD22	12:Nb:41:GLY:H	1.48	0.60
12:Od:40:ASN:HD22	12:Od:41:GLY:H	1.48	0.60
4:Cb:232:ARG:HH22	4:Cc:194:GLU:HG3	1.66	0.60
4:Cf:125:LEU:HB3	4:Ci:244:MET:HE3	1.82	0.60
7:Fu:111:LYS:H	7:Fu:115:GLY:HA2	1.66	0.60
8:Gg:148:ILE:HD12	8:Gg:184:ARG:HE	1.66	0.60
8:Go:148:ILE:HD12	8:Go:184:ARG:HE	1.67	0.60
8:Gs:148:ILE:HD12	8:Gs:184:ARG:HE	1.66	0.60
11:Kc:78:ALA:HB3	11:Kd:91:ALA:HB3	1.83	0.60
12:Nu:40:ASN:HD22	12:Nu:41:GLY:H	1.48	0.60
13:Oz:324:LEU:HB3	13:Oz:371:GLU:HB2	1.84	0.60
4:Cd:232:ARG:HH22	4:Ce:194:GLU:HG3	1.66	0.60
4:Cg:232:ARG:HH22	4:Ch:194:GLU:HG3	1.65	0.60
12:Ob:40:ASN:HD22	12:Ob:41:GLY:H	1.48	0.60
4:Ce:232:ARG:HH22	4:Cf:194:GLU:HG3	1.66	0.60
8:Gl:168:TYR:HB2	8:Gl:196:MET:HE1	1.84	0.60
8:Gw:148:ILE:HD12	8:Gw:184:ARG:HE	1.67	0.60
12:Nh:156:ARG:HE	12:Nh:192:LEU:HD13	1.65	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Nl:40:ASN:HD22	12:Nl:41:GLY:H	1.48	0.60
12:Np:156:ARG:HE	12:Np:192:LEU:HD13	1.65	0.60
12:Og:40:ASN:HD22	12:Og:41:GLY:H	1.47	0.60
13:Pe:309:LYS:HG3	13:Pe:382:ILE:HG12	1.84	0.60
1:Ad:137:LEU:HG	1:Ad:139:PRO:HD2	1.84	0.60
4:Cf:232:ARG:HH22	4:Cg:194:GLU:HG3	1.66	0.60
4:Ch:232:ARG:HH22	4:Ci:194:GLU:HG3	1.66	0.60
4:Cn:232:ARG:HH22	4:Co:194:GLU:HG3	1.65	0.60
6:Ef:126:ILE:HB	6:Ef:169:THR:HG22	1.84	0.60
7:Fv:49:VAL:HG12	7:Fv:59:GLU:HG2	1.83	0.60
8:Ga:148:ILE:HD12	8:Ga:184:ARG:HE	1.67	0.60
8:Gc:65:ARG:HD3	8:Gc:69:ILE:HD13	1.84	0.60
8:Gq:148:ILE:HD12	8:Gq:184:ARG:HE	1.66	0.60
8:Gv:168:TYR:HB2	8:Gv:196:MET:HE1	1.84	0.60
8:Gw:65:ARG:HD3	8:Gw:69:ILE:HD13	1.84	0.60
11:Kn:78:ALA:HB3	11:Ko:91:ALA:HB3	1.84	0.60
11:Lw:78:ALA:HB3	11:Lx:91:ALA:HB3	1.84	0.60
12:Of:40:ASN:HD22	12:Of:41:GLY:H	1.48	0.60
1:Aw:44:LEU:HD11	1:Aw:73:LYS:HB2	1.83	0.60
6:Eb:81:ALA:HB1	11:Jx:77:ARG:HH22	1.67	0.60
8:Ge:148:ILE:HD12	8:Ge:184:ARG:HE	1.67	0.60
8:Gg:65:ARG:HD3	8:Gg:69:ILE:HD13	1.84	0.60
12:Mi:40:ASN:HD22	12:Mi:41:GLY:H	1.48	0.60
13:Pe:295:VAL:HG12	13:Pe:397:VAL:HG22	1.84	0.60
1:At:5:LEU:HD12	2:Bv:216:THR:HG23	1.84	0.60
8:Gi:148:ILE:HD12	8:Gi:184:ARG:HE	1.67	0.60
8:Gr:168:TYR:HB2	8:Gr:196:MET:HE1	1.84	0.60
8:Gu:148:ILE:HD12	8:Gu:184:ARG:HE	1.67	0.60
11:Kt:78:ALA:HB3	11:Ku:91:ALA:HB3	1.84	0.60
12:Mk:40:ASN:HD22	12:Mk:41:GLY:H	1.47	0.60
12:Mp:40:ASN:HD22	12:Mp:41:GLY:H	1.48	0.60
13:Pk:438:SER:HB3	13:Pl:394:ARG:HH12	1.66	0.60
3:Bf:403:LEU:HD13	3:Bg:430:ILE:HG21	1.83	0.59
3:Bj:33:GLU:HB3	3:Bj:397:ILE:HG22	1.84	0.59
7:Fi:219:VAL:HG21	7:Fi:254:LEU:HD21	1.84	0.59
8:Gc:148:ILE:HD12	8:Gc:184:ARG:HE	1.67	0.59
8:Gi:65:ARG:HD3	8:Gi:69:ILE:HD13	1.84	0.59
8:Gk:65:ARG:HD3	8:Gk:69:ILE:HD13	1.84	0.59
11:Jx:91:ALA:HB3	11:Mc:78:ALA:HB3	1.83	0.59
11:Kb:78:ALA:HB3	11:Kc:91:ALA:HB3	1.84	0.59
11:Ks:77:ARG:HH12	11:Kt:73:ARG:HH21	1.50	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Oo:267:GLU:HG2	13:Oo:299:LEU:HD23	1.83	0.59
13:Oq:324:LEU:HB3	13:Oq:371:GLU:HB3	1.83	0.59
13:Pe:270:GLN:HG3	13:Pe:299:LEU:HD11	1.82	0.59
1:Ao:137:LEU:HG	1:Ao:139:PRO:HD2	1.84	0.59
4:Co:232:ARG:HH22	4:Cp:194:GLU:HG3	1.66	0.59
6:Eh:88:ILE:HG12	6:Eh:106:ILE:HG23	1.84	0.59
7:Fa:111:LYS:H	7:Fa:115:GLY:HA2	1.67	0.59
7:Fk:219:VAL:HG21	7:Fk:254:LEU:HD21	1.84	0.59
11:Ka:78:ALA:HB3	11:Kb:91:ALA:HB3	1.84	0.59
12:Oa:40:ASN:HD22	12:Oa:41:GLY:H	1.48	0.59
7:Fs:111:LYS:H	7:Fs:115:GLY:HA2	1.67	0.59
11:Ks:78:ALA:HB3	11:Kt:91:ALA:HB3	1.85	0.59
12:Oh:40:ASN:HD22	12:Oh:41:GLY:H	1.48	0.59
13:Pf:436:GLY:HA2	13:Pg:396:THR:HG21	1.84	0.59
1:Am:35:LYS:HD3	1:Am:81:HIS:HA	1.83	0.59
2:Ba:9:MET:HE3	2:Ba:232:MET:HE3	1.85	0.59
3:Bn:33:GLU:HB3	3:Bn:397:ILE:HG22	1.84	0.59
6:Dx:126:ILE:HB	6:Dx:169:THR:HG22	1.85	0.59
6:Ee:80:PHE:HA	9:He:136:VAL:HG21	1.84	0.59
7:Fw:219:VAL:HG21	7:Fw:254:LEU:HD21	1.85	0.59
8:Gs:65:ARG:HD3	8:Gs:69:ILE:HD13	1.84	0.59
8:Gt:168:TYR:HB2	8:Gt:196:MET:HE1	1.84	0.59
8:Gu:65:ARG:HD3	8:Gu:69:ILE:HD13	1.84	0.59
11:Kk:78:ALA:HB3	11:Kl:91:ALA:HB3	1.85	0.59
11:Lk:78:ALA:HB3	11:Ll:91:ALA:HB3	1.83	0.59
12:Ns:40:ASN:HD22	12:Ns:41:GLY:H	1.48	0.59
12:Nv:40:ASN:HD22	12:Nv:41:GLY:H	1.48	0.59
13:Oo:385:GLU:HG2	13:Op:304:VAL:HG22	1.84	0.59
1:Ae:96:MET:HG3	1:Ae:221:GLU:HB2	1.84	0.59
3:Bj:328:ASN:HB2	3:Bj:345:ARG:HH21	1.67	0.59
7:Fq:111:LYS:H	7:Fq:115:GLY:HA2	1.67	0.59
7:Fu:219:VAL:HG21	7:Fu:254:LEU:HD21	1.84	0.59
8:Fy:65:ARG:HD3	8:Fy:69:ILE:HD13	1.84	0.59
8:Gq:65:ARG:HD3	8:Gq:69:ILE:HD13	1.84	0.59
11:Jy:78:ALA:HB3	11:Jz:91:ALA:HB3	1.84	0.59
12:Mf:40:ASN:HD22	12:Mf:41:GLY:H	1.48	0.59
13:Ol:384:HIS:HB3	13:Om:305:GLU:HB2	1.83	0.59
1:Ad:236:GLU:HB2	1:Ad:239:ARG:HH21	1.67	0.59
6:Eh:209:LYS:HD2	6:Eh:212:GLN:HB2	1.84	0.59
8:Fy:148:ILE:HD12	8:Fy:184:ARG:HE	1.67	0.59
11:Kv:78:ALA:HB3	11:Kw:91:ALA:HB3	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Lp:78:ALA:HB3	11:Lq:91:ALA:HB3	1.84	0.59
12:Nq:40:ASN:HD22	12:Nq:41:GLY:H	1.48	0.59
12:Nz:40:ASN:HD22	12:Nz:41:GLY:H	1.48	0.59
1:Ad:47:GLN:HB3	1:Ad:68:LEU:HB2	1.84	0.59
4:Cd:125:LEU:HB3	4:Cg:244:MET:HE3	1.84	0.59
7:Fc:111:LYS:H	7:Fc:115:GLY:HA2	1.68	0.59
8:Gb:168:TYR:HB2	8:Gb:196:MET:HE1	1.85	0.59
8:Gm:65:ARG:HD3	8:Gm:69:ILE:HD13	1.84	0.59
12:Md:40:ASN:HD22	12:Md:41:GLY:H	1.48	0.59
12:Oc:40:ASN:HD22	12:Oc:41:GLY:H	1.48	0.59
13:Pj:385:GLU:HG2	13:Pk:304:VAL:HG22	1.83	0.59
13:Pn:396:THR:HG22	13:Pn:444:LEU:HB2	1.85	0.59
1:Aa:187:PRO:HD2	1:Ag:67:MET:HE3	1.84	0.59
3:Bf:33:GLU:HB3	3:Bf:397:ILE:HG22	1.83	0.59
11:Kh:78:ALA:HB3	11:Ki:91:ALA:HB3	1.85	0.59
11:Ld:78:ALA:HB3	11:Le:91:ALA:HB3	1.85	0.59
11:Lv:78:ALA:HB3	11:Lw:91:ALA:HB3	1.84	0.59
12:Oe:40:ASN:HD22	12:Oe:41:GLY:H	1.48	0.59
1:Ab:22:ILE:HG21	1:Ab:234:MET:HB2	1.85	0.59
8:Go:65:ARG:HD3	8:Go:69:ILE:HD13	1.84	0.59
11:Kx:78:ALA:HB3	11:Ky:91:ALA:HB3	1.85	0.59
11:Lc:78:ALA:HB3	11:Ld:91:ALA:HB3	1.84	0.59
7:Fc:219:VAL:HG21	7:Fc:254:LEU:HD21	1.85	0.59
7:Fo:111:LYS:H	7:Fo:115:GLY:HA2	1.67	0.59
12:Nx:40:ASN:HD22	12:Nx:41:GLY:H	1.48	0.59
13:Om:396:THR:HG22	13:Om:444:LEU:HB2	1.85	0.59
13:Ou:309:LYS:HG3	13:Ou:382:ILE:HG12	1.84	0.59
13:Pf:274:LEU:HD22	13:Pf:295:VAL:HG11	1.85	0.59
1:Ad:36:LYS:HB3	1:Ad:225:VAL:HG22	1.85	0.58
6:Dy:365:TYR:HB3	7:Fr:91:MET:HE1	1.83	0.58
7:Fe:219:VAL:HG21	7:Fe:254:LEU:HD21	1.84	0.58
11:Kq:78:ALA:HB3	11:Kr:91:ALA:HB3	1.85	0.58
13:Or:396:THR:HG22	13:Or:444:LEU:HB2	1.85	0.58
13:Ox:385:GLU:HG2	13:Oy:304:VAL:HG22	1.84	0.58
1:Ae:22:ILE:HG21	1:Ae:234:MET:HB2	1.83	0.58
1:Aj:80:VAL:HA	1:As:91:ASN:HD21	1.68	0.58
1:At:22:ILE:HG21	1:At:234:MET:HB2	1.85	0.58
3:Bt:22:ASN:HD21	3:Bt:34:SER:H	1.49	0.58
8:Ge:65:ARG:HD3	8:Ge:69:ILE:HD13	1.85	0.58
13:Ph:295:VAL:HG12	13:Ph:397:VAL:HG22	1.84	0.58
3:Bl:131:ASN:HB3	3:Bl:135:GLY:H	1.67	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Fz:168:TYR:HB2	8:Fz:196:MET:HE1	1.85	0.58
11:Lr:78:ALA:HB3	11:Ls:91:ALA:HB3	1.85	0.58
13:Ov:274:LEU:HD21	13:Ov:435:VAL:HG13	1.85	0.58
13:Pq:432:ILE:HG23	13:Pq:437:TYR:HB3	1.85	0.58
1:Aj:159:SER:HB2	1:Aj:168:ASN:HB3	1.85	0.58
1:Bb:180:ILE:HA	2:Bc:134:PRO:HB3	1.86	0.58
6:El:80:PHE:HA	9:Hl:136:VAL:HG21	1.85	0.58
7:Fk:111:LYS:H	7:Fk:115:GLY:HA2	1.67	0.58
8:Gf:168:TYR:HB2	8:Gf:196:MET:HE1	1.85	0.58
13:Oo:308:ARG:HB2	13:Oo:383:SER:HB3	1.86	0.58
1:Az:175:THR:HA	1:Az:207:PRO:HD3	1.85	0.58
3:Bj:348:LEU:HD12	3:Bj:384:PHE:HB3	1.86	0.58
5:Du:248:ALA:HB1	5:Du:265:VAL:HG22	1.86	0.58
6:Ev:126:ILE:HB	6:Ev:169:THR:HG22	1.85	0.58
6:Eb:109:TYR:CD1	11:Jx:73:ARG:HG2	2.38	0.58
10:Jv:189:ILE:HB	10:Jv:295:VAL:HG23	1.86	0.58
13:Ox:274:LEU:HD23	13:Ox:295:VAL:HG11	1.86	0.58
13:Pj:308:ARG:HB2	13:Pj:383:SER:HB3	1.84	0.58
1:Ae:157:GLU:HG3	1:Ae:173:GLN:HE22	1.67	0.58
3:Br:128:TYR:HB2	3:Br:345:ARG:HB3	1.85	0.58
5:Cx:248:ALA:HB1	5:Cx:265:VAL:HG22	1.86	0.58
5:Dv:248:ALA:HB1	5:Dv:265:VAL:HG22	1.86	0.58
5:Dw:248:ALA:HB1	5:Dw:265:VAL:HG22	1.86	0.58
6:Ec:85:VAL:HG22	6:Ec:108:ILE:HG12	1.85	0.58
8:Gd:168:TYR:HB2	8:Gd:196:MET:HE1	1.85	0.58
10:Jt:189:ILE:HB	10:Jt:295:VAL:HG23	1.86	0.58
11:Mb:78:ALA:HB3	11:Mc:91:ALA:HB3	1.86	0.58
13:Ou:432:ILE:HD12	13:Ou:437:TYR:HB2	1.86	0.58
13:Ow:324:LEU:HB3	13:Ow:371:GLU:HB3	1.85	0.58
5:Ds:248:ALA:HB1	5:Ds:265:VAL:HG22	1.86	0.58
7:Fg:219:VAL:HG21	7:Fg:254:LEU:HD21	1.84	0.58
11:Ln:78:ALA:HB3	11:Lo:91:ALA:HB3	1.84	0.58
1:Ay:36:LYS:HB3	1:Ay:225:VAL:HG22	1.85	0.58
5:Dq:248:ALA:HB1	5:Dq:265:VAL:HG22	1.85	0.58
7:Fm:111:LYS:H	7:Fm:115:GLY:HA2	1.67	0.58
10:Jk:189:ILE:HB	10:Jk:295:VAL:HG23	1.86	0.58
11:Ko:78:ALA:HB3	11:Kp:91:ALA:HB3	1.84	0.58
1:Aj:7:VAL:HG13	1:Aj:71:GLY:HA2	1.86	0.57
1:Ay:35:LYS:HD3	1:Ay:81:HIS:HA	1.86	0.57
1:Az:35:LYS:HD3	1:Az:81:HIS:HA	1.86	0.57
10:Jn:189:ILE:HB	10:Jn:295:VAL:HG23	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Jz:78:ALA:HB3	11:Ka:91:ALA:HB3	1.85	0.57
11:Kl:78:ALA:HB3	11:Km:91:ALA:HB3	1.85	0.57
13:Oj:309:LYS:HG3	13:Oj:382:ILE:HG12	1.86	0.57
1:Ab:144:PRO:HG2	1:Ab:147:ALA:HB2	1.86	0.57
10:Iz:189:ILE:HB	10:Iz:295:VAL:HG23	1.86	0.57
10:Jm:189:ILE:HB	10:Jm:295:VAL:HG23	1.86	0.57
11:Kb:106:SER:HB3	12:Mh:207:ARG:HB3	1.86	0.57
11:Lb:78:ALA:HB3	11:Lc:91:ALA:HB3	1.85	0.57
5:Da:248:ALA:HB1	5:Da:265:VAL:HG22	1.86	0.57
6:Eg:86:ARG:HH22	11:Kj:73:ARG:HH22	1.52	0.57
8:Gh:168:TYR:HB2	8:Gh:196:MET:HE1	1.86	0.57
10:Jp:189:ILE:HB	10:Jp:295:VAL:HG23	1.86	0.57
11:Kh:106:SER:HB3	12:Mn:207:ARG:HB3	1.86	0.57
11:Li:106:SER:HB3	12:No:207:ARG:HB3	1.86	0.57
1:Al:80:VAL:HG13	1:Aw:91:ASN:HD21	1.69	0.57
1:Aq:240:VAL:HG21	1:Ar:30:SER:HB3	1.87	0.57
1:Az:144:PRO:HG2	1:Az:147:ALA:HB2	1.86	0.57
5:Cy:248:ALA:HB1	5:Cy:265:VAL:HG22	1.86	0.57
5:Dr:248:ALA:HB1	5:Dr:265:VAL:HG22	1.86	0.57
6:Ed:85:VAL:HG22	6:Ed:108:ILE:HG12	1.85	0.57
10:Ji:189:ILE:HB	10:Ji:295:VAL:HG23	1.86	0.57
11:Kd:78:ALA:HB3	11:Ke:91:ALA:HB3	1.86	0.57
11:Ke:106:SER:HB3	12:Mk:207:ARG:HB3	1.86	0.57
13:Ok:438:SER:HB3	13:Ol:394:ARG:HH12	1.68	0.57
3:Bm:359:LYS:HD2	3:Bm:363:THR:HA	1.86	0.57
6:Ee:126:ILE:HB	6:Ee:169:THR:HG22	1.86	0.57
10:Ix:189:ILE:HB	10:Ix:295:VAL:HG23	1.86	0.57
11:Lb:106:SER:HB3	12:Nh:207:ARG:HB3	1.86	0.57
11:Ll:78:ALA:HB3	11:Lm:91:ALA:HB3	1.87	0.57
13:Os:270:GLN:HG3	13:Os:299:LEU:HD11	1.87	0.57
13:Oz:321:GLU:HG2	13:Oz:374:ARG:HG3	1.86	0.57
13:Po:384:HIS:HB3	13:Pp:305:GLU:HB2	1.85	0.57
3:Bf:351:VAL:HG11	3:Bf:357:LEU:HD21	1.87	0.57
5:Cz:248:ALA:HB1	5:Cz:265:VAL:HG22	1.86	0.57
10:Jf:189:ILE:HB	10:Jf:295:VAL:HG23	1.86	0.57
11:Ka:106:SER:HB3	12:Mg:207:ARG:HB3	1.86	0.57
11:Kc:106:SER:HB3	12:Mi:207:ARG:HB3	1.86	0.57
11:Kd:106:SER:HB3	12:Mj:207:ARG:HB3	1.86	0.57
11:Le:106:SER:HB3	12:Nk:207:ARG:HB3	1.86	0.57
1:Al:144:PRO:HG2	1:Al:147:ALA:HB2	1.86	0.57
1:Ax:1:MET:HB3	1:Ax:251:VAL:HG13	1.85	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Dy:92:GLU:HB2	6:Dy:103:ARG:HB3	1.86	0.57
7:Fs:219:VAL:HG21	7:Fs:254:LEU:HD21	1.85	0.57
10:Jb:189:ILE:HB	10:Jb:295:VAL:HG23	1.86	0.57
11:Kv:106:SER:HB3	12:Nb:207:ARG:HB3	1.86	0.57
11:Lx:106:SER:HB3	12:Od:207:ARG:HB3	1.86	0.57
11:Ly:78:ALA:HB3	11:Lz:91:ALA:HB3	1.86	0.57
13:Oy:320:SER:HB3	13:Oy:375:ASN:HB2	1.87	0.57
3:Bh:1:MET:H2	3:Bh:423:HIS:HB3	1.69	0.57
4:Cb:66:TRP:HA	4:Cb:192:ARG:HD3	1.87	0.57
5:Do:248:ALA:HB1	5:Do:265:VAL:HG22	1.86	0.57
5:Dt:248:ALA:HB1	5:Dt:265:VAL:HG22	1.87	0.57
8:Ge:99:MET:HB3	8:Ge:114:LEU:HD21	1.86	0.57
10:Jd:248:ALA:HB1	10:Je:248:ALA:HB1	1.87	0.57
10:Jo:189:ILE:HB	10:Jo:295:VAL:HG23	1.86	0.57
11:Kk:106:SER:HB3	12:Mq:207:ARG:HB3	1.86	0.57
13:Ol:295:VAL:HG12	13:Ol:397:VAL:HG22	1.87	0.57
1:Ah:61:ARG:HB2	1:Ai:198:ALA:HB2	1.86	0.57
1:Ak:10:THR:HG21	1:Ap:86:VAL:HG23	1.86	0.57
3:Br:33:GLU:HB3	3:Br:397:ILE:HG22	1.86	0.57
5:Dp:248:ALA:HB1	5:Dp:265:VAL:HG22	1.86	0.57
8:Gt:144:LEU:HA	8:Gt:147:ARG:HD2	1.87	0.57
10:Jh:189:ILE:HB	10:Jh:295:VAL:HG23	1.86	0.57
11:Kl:106:SER:HB3	12:Mr:207:ARG:HB3	1.86	0.57
11:Lm:106:SER:HB3	12:Ns:207:ARG:HB3	1.86	0.57
13:Ow:396:THR:HG22	13:Ow:444:LEU:HB2	1.87	0.57
13:Pc:385:GLU:HG2	13:Pd:304:VAL:HG22	1.85	0.57
3:Bk:33:GLU:HB3	3:Bk:397:ILE:HG22	1.86	0.57
4:Ce:66:TRP:HA	4:Ce:192:ARG:HD3	1.87	0.57
5:Dc:248:ALA:HB1	5:Dc:265:VAL:HG22	1.86	0.57
5:Dh:248:ALA:HB1	5:Dh:265:VAL:HG22	1.86	0.57
5:Di:248:ALA:HB1	5:Di:265:VAL:HG22	1.86	0.57
6:Dy:291:LEU:HD22	6:Dy:372:VAL:HA	1.87	0.57
7:Ey:219:VAL:HG21	7:Ey:254:LEU:HD21	1.87	0.57
10:Jd:189:ILE:HB	10:Jd:295:VAL:HG23	1.86	0.57
11:Ke:78:ALA:HB3	11:Kf:91:ALA:HB3	1.85	0.57
11:Ki:106:SER:HB3	12:Mo:207:ARG:HB3	1.86	0.57
11:Kz:106:SER:HB3	12:Nf:207:ARG:HB3	1.86	0.57
11:Lt:106:SER:HB3	12:Nz:207:ARG:HB3	1.86	0.57
11:Ma:78:ALA:HB3	11:Mb:91:ALA:HB3	1.87	0.57
13:Ot:384:HIS:HB3	13:Ou:305:GLU:HB2	1.86	0.57
1:Aa:36:LYS:HB3	1:Aa:225:VAL:HG22	1.86	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:211:GLY:H	1:Ac:163:ARG:HH11	1.51	0.56
3:Bu:348:LEU:HD21	3:Bu:387:ILE:HD11	1.86	0.56
4:Cf:66:TRP:HA	4:Cf:192:ARG:HD3	1.87	0.56
5:Dc:360:ILE:HG22	5:De:136:ASN:HB2	1.87	0.56
6:Eh:126:ILE:HB	6:Eh:169:THR:HG22	1.87	0.56
7:Fm:219:VAL:HG21	7:Fm:254:LEU:HD21	1.86	0.56
10:Jc:189:ILE:HB	10:Jc:295:VAL:HG23	1.86	0.56
10:Jh:248:ALA:HB1	10:Ji:248:ALA:HB1	1.88	0.56
10:Jr:189:ILE:HB	10:Jr:295:VAL:HG23	1.86	0.56
11:Kg:106:SER:HB3	12:Mm:207:ARG:HB3	1.87	0.56
11:Kj:106:SER:HB3	12:Mp:207:ARG:HB3	1.86	0.56
11:Km:78:ALA:HB3	11:Kn:91:ALA:HB3	1.86	0.56
11:Kp:106:SER:HB3	12:Mv:207:ARG:HB3	1.86	0.56
11:La:106:SER:HB3	12:Ng:207:ARG:HB3	1.86	0.56
11:Lg:106:SER:HB3	12:Nm:207:ARG:HB3	1.86	0.56
11:Lh:106:SER:HB3	12:Nn:207:ARG:HB3	1.86	0.56
11:Lz:106:SER:HB3	12:Of:207:ARG:HB3	1.86	0.56
2:Bw:136:ASN:HB2	2:Bw:151:GLN:HA	1.86	0.56
4:Cc:66:TRP:HA	4:Cc:192:ARG:HD3	1.87	0.56
4:Ci:66:TRP:HA	4:Ci:192:ARG:HD3	1.87	0.56
5:Dm:248:ALA:HB1	5:Dm:265:VAL:HG22	1.86	0.56
6:Eh:83:HIS:H	11:Kl:73:ARG:HH12	1.53	0.56
10:Ja:189:ILE:HB	10:Ja:295:VAL:HG23	1.86	0.56
10:Jb:248:ALA:HB1	10:Jc:248:ALA:HB1	1.87	0.56
10:Je:189:ILE:HB	10:Je:295:VAL:HG23	1.86	0.56
11:Kf:106:SER:HB3	12:Ml:207:ARG:HB3	1.87	0.56
11:Le:78:ALA:HB3	11:Lf:91:ALA:HB3	1.87	0.56
11:Ly:106:SER:HB3	12:Oe:207:ARG:HB3	1.86	0.56
13:Ox:308:ARG:HB2	13:Ox:383:SER:HB3	1.88	0.56
1:Ab:251:VAL:HG23	1:Ab:254:MET:HE2	1.87	0.56
1:Ae:48:ASN:HB3	1:Ae:67:MET:HE2	1.87	0.56
1:Ak:115:SER:HB2	1:Ak:192:LEU:HD23	1.88	0.56
3:Bk:426:LEU:HD21	3:Bn:410:GLN:HG2	1.87	0.56
5:Dl:248:ALA:HB1	5:Dl:265:VAL:HG22	1.86	0.56
5:Dn:248:ALA:HB1	5:Dn:265:VAL:HG22	1.86	0.56
7:Fa:219:VAL:HG21	7:Fa:254:LEU:HD21	1.86	0.56
10:Jl:189:ILE:HB	10:Jl:295:VAL:HG23	1.86	0.56
11:Jx:106:SER:HB3	12:Md:207:ARG:HB3	1.87	0.56
11:Jy:106:SER:HB3	12:Me:207:ARG:HB3	1.86	0.56
11:Jz:106:SER:HB3	12:Mf:207:ARG:HB3	1.87	0.56
11:Kb:77:ARG:HH12	11:Kc:73:ARG:HH21	1.52	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Kq:106:SER:HB3	12:Mw:207:ARG:HB3	1.87	0.56
11:Kw:106:SER:HB3	12:Nc:207:ARG:HB3	1.86	0.56
11:Ky:106:SER:HB3	12:Ne:207:ARG:HB3	1.86	0.56
11:Lh:78:ALA:HB3	11:Li:91:ALA:HB3	1.86	0.56
11:Ls:106:SER:HB3	12:Ny:207:ARG:HB3	1.86	0.56
11:Mb:106:SER:HB3	12:Oh:207:ARG:HB3	1.86	0.56
13:Op:308:ARG:HB2	13:Op:383:SER:HB3	1.87	0.56
3:Bk:380:ASN:HD21	3:Bk:386:SER:HB3	1.71	0.56
5:Db:248:ALA:HB1	5:Db:265:VAL:HG22	1.86	0.56
6:Eo:361:PRO:HB2	7:Fh:148:ARG:HD2	1.87	0.56
11:Lu:106:SER:HB3	12:Oa:207:ARG:HB3	1.86	0.56
3:Bf:32:LYS:HB2	3:Bf:65:GLN:HE21	1.71	0.56
4:Cg:66:TRP:HA	4:Cg:192:ARG:HD3	1.88	0.56
5:Dd:248:ALA:HB1	5:Dd:265:VAL:HG22	1.86	0.56
5:De:248:ALA:HB1	5:De:265:VAL:HG22	1.86	0.56
5:De:360:ILE:HG22	5:Dg:136:ASN:HB2	1.88	0.56
5:Dg:360:ILE:HG22	5:Di:136:ASN:HB2	1.88	0.56
5:Di:360:ILE:HG22	5:Dk:136:ASN:HB2	1.88	0.56
7:Fo:219:VAL:HG21	7:Fo:254:LEU:HD21	1.87	0.56
10:Jj:189:ILE:HB	10:Jj:295:VAL:HG23	1.86	0.56
10:Jw:189:ILE:HB	10:Jw:295:VAL:HG23	1.86	0.56
11:Kj:78:ALA:HB3	11:Kk:91:ALA:HB3	1.86	0.56
11:Kx:106:SER:HB3	12:Nd:207:ARG:HB3	1.87	0.56
11:Lp:106:SER:HB3	12:Nv:207:ARG:HB3	1.86	0.56
13:Oz:397:VAL:HB	13:Oz:445:LEU:HD12	1.87	0.56
13:Pl:432:ILE:HG23	13:Pl:437:TYR:HB3	1.88	0.56
4:Bx:66:TRP:HA	4:Bx:192:ARG:HD3	1.87	0.56
5:Da:360:ILE:HG22	5:Dc:136:ASN:HB2	1.88	0.56
8:Fy:99:MET:HB3	8:Fy:114:LEU:HD21	1.86	0.56
8:Ga:154:LEU:HB3	8:Ga:164:TYR:HE1	1.70	0.56
10:Jj:248:ALA:HB1	10:Jk:248:ALA:HB1	1.87	0.56
11:Kn:106:SER:HB3	12:Mt:207:ARG:HB3	1.87	0.56
11:Kr:106:SER:HB3	12:Mx:207:ARG:HB3	1.86	0.56
11:Lv:106:SER:HB3	12:Ob:207:ARG:HB3	1.86	0.56
11:Lw:106:SER:HB3	12:Oc:207:ARG:HB3	1.87	0.56
8:Gs:154:LEU:HB3	8:Gs:164:TYR:HE1	1.71	0.56
10:Ju:189:ILE:HB	10:Ju:295:VAL:HG23	1.86	0.56
11:Ku:106:SER:HB3	12:Na:207:ARG:HB3	1.86	0.56
11:Ll:106:SER:HB3	12:Nr:207:ARG:HB3	1.87	0.56
11:Ma:106:SER:HB3	12:Og:207:ARG:HB3	1.87	0.56
13:Pc:432:ILE:HG23	13:Pc:437:TYR:HB3	1.86	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Po:385:GLU:HG2	13:Pp:304:VAL:HG22	1.87	0.56
1:Ar:22:ILE:HG21	1:Ar:234:MET:HB2	1.88	0.56
4:Cj:66:TRP:HA	4:Cj:192:ARG:HD3	1.87	0.56
5:Dj:248:ALA:HB1	5:Dj:265:VAL:HG22	1.86	0.56
5:Dk:248:ALA:HB1	5:Dk:265:VAL:HG22	1.86	0.56
5:Dk:360:ILE:HG22	5:Dm:136:ASN:HB2	1.88	0.56
10:Iy:189:ILE:HB	10:Iy:295:VAL:HG23	1.86	0.56
10:Jq:189:ILE:HB	10:Jq:295:VAL:HG23	1.86	0.56
11:Mc:106:SER:HB3	12:Oi:207:ARG:HB3	1.88	0.56
1:Ak:209:LEU:HA	1:Aq:163:ARG:HH22	1.70	0.56
1:Au:47:GLN:HA	1:Bb:83:ASN:HD21	1.70	0.56
3:Bj:411:ARG:HH21	3:Bk:424:ASN:HB3	1.70	0.56
4:Ca:66:TRP:HA	4:Ca:192:ARG:HD3	1.88	0.56
5:Dg:248:ALA:HB1	5:Dg:265:VAL:HG22	1.86	0.56
6:Eb:109:TYR:CZ	11:Jx:73:ARG:HG3	2.41	0.56
6:Eq:83:HIS:H	11:Lf:73:ARG:HH12	1.54	0.56
7:Fq:219:VAL:HG21	7:Fq:254:LEU:HD21	1.87	0.56
10:Jf:248:ALA:HB1	10:Jg:248:ALA:HB1	1.88	0.56
10:Jg:189:ILE:HB	10:Jg:295:VAL:HG23	1.86	0.56
11:Kt:106:SER:HB3	12:Mz:207:ARG:HB3	1.87	0.56
11:Lk:106:SER:HB3	12:Nq:207:ARG:HB3	1.87	0.56
1:Ao:98:GLU:O	1:Ao:213:GLY:HA2	2.06	0.56
2:Bd:91:LEU:HB2	2:Bd:120:PRO:HG2	1.88	0.56
3:Bf:332:LEU:HD21	3:Bf:340:ASN:HD21	1.70	0.56
3:Bt:33:GLU:HB3	3:Bt:397:ILE:HG22	1.87	0.56
4:Cs:66:TRP:HA	4:Cs:192:ARG:HD3	1.87	0.56
5:Cy:360:ILE:HG22	5:Da:136:ASN:HB2	1.87	0.56
6:Eo:109:TYR:CE2	11:La:73:ARG:CZ	2.89	0.56
10:Jv:248:ALA:HB1	10:Jw:248:ALA:HB1	1.88	0.56
11:Ko:106:SER:HB3	12:Mu:207:ARG:HB3	1.87	0.56
11:Ks:106:SER:HB3	12:My:207:ARG:HB3	1.86	0.56
11:Ld:106:SER:HB3	12:Nj:207:ARG:HB3	1.87	0.56
11:Lr:106:SER:HB3	12:Nx:207:ARG:HB3	1.86	0.56
13:Ot:432:ILE:HD12	13:Ot:437:TYR:HB2	1.87	0.56
1:An:198:ALA:HA	1:Ao:124:ASP:HB2	1.88	0.55
4:Ck:66:TRP:HA	4:Ck:192:ARG:HD3	1.88	0.55
5:Dq:224:ARG:HH21	6:Eh:368:GLN:HB2	1.71	0.55
5:Dr:224:ARG:HH21	6:Ei:368:GLN:HB2	1.71	0.55
6:Eg:201:ASP:HB3	6:Eg:221:ALA:HB3	1.88	0.55
8:Gp:144:LEU:HA	8:Gp:147:ARG:HD2	1.88	0.55
10:Jl:248:ALA:HB1	10:Jm:248:ALA:HB1	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Lg:78:ALA:HB3	11:Lh:91:ALA:HB3	1.89	0.55
1:Aa:35:LYS:HD3	1:Aa:81:HIS:HA	1.87	0.55
1:Ag:111:ASN:HD21	1:An:164:GLY:HA2	1.71	0.55
4:Cr:66:TRP:HA	4:Cr:192:ARG:HD3	1.87	0.55
5:Cz:360:ILE:HG22	5:Db:136:ASN:HB2	1.87	0.55
8:Gv:144:LEU:HA	8:Gv:147:ARG:HD2	1.88	0.55
11:Km:106:SER:HB3	12:Ms:207:ARG:HB3	1.86	0.55
11:Lq:106:SER:HB3	12:Nw:207:ARG:HB3	1.87	0.55
13:Om:295:VAL:HG12	13:Om:397:VAL:HG22	1.87	0.55
4:Cd:66:TRP:HA	4:Cd:192:ARG:HD3	1.88	0.55
5:Df:248:ALA:HB1	5:Df:265:VAL:HG22	1.86	0.55
5:Dp:250:ILE:HG12	5:Dp:261:VAL:HG13	1.89	0.55
6:Eo:109:TYR:CZ	11:La:73:ARG:CD	2.90	0.55
6:Eu:361:PRO:HB2	7:Fn:148:ARG:HD2	1.88	0.55
8:Fz:144:LEU:HA	8:Fz:147:ARG:HD2	1.88	0.55
11:Lf:106:SER:HB3	12:Nl:207:ARG:HB3	1.87	0.55
13:Oy:431:LEU:HB3	13:Oy:445:LEU:HD11	1.88	0.55
13:Pk:384:HIS:HB3	13:Pl:305:GLU:HB2	1.87	0.55
2:Ba:82:ILE:HD12	2:Ba:101:ARG:HD3	1.88	0.55
3:Bn:4:VAL:HG13	3:Bn:57:GLY:HA2	1.89	0.55
5:Cx:360:ILE:HG22	5:Cz:136:ASN:HB2	1.87	0.55
5:Dd:360:ILE:HG22	5:Df:136:ASN:HB2	1.88	0.55
5:Dm:360:ILE:HG22	5:Do:136:ASN:HB2	1.87	0.55
5:Dt:360:ILE:HG22	5:Dv:136:ASN:HB2	1.87	0.55
6:Eh:201:ASP:HB3	6:Eh:221:ALA:HB3	1.88	0.55
10:Ix:248:ALA:HB1	10:Iy:248:ALA:HB1	1.88	0.55
11:Kp:78:ALA:HB3	11:Kq:91:ALA:HB3	1.88	0.55
11:Lc:106:SER:HB3	12:Ni:207:ARG:HB3	1.87	0.55
1:Ap:137:LEU:HG	1:Ap:139:PRO:HD2	1.87	0.55
1:As:48:ASN:HD21	1:As:51:GLN:HG3	1.71	0.55
6:Dz:85:VAL:HG22	6:Dz:108:ILE:HG12	1.88	0.55
8:Ge:116:ARG:HA	8:Ge:149:GLN:HE22	1.72	0.55
8:Gr:144:LEU:HA	8:Gr:147:ARG:HD2	1.88	0.55
10:Js:189:ILE:HB	10:Js:295:VAL:HG23	1.87	0.55
11:Lo:106:SER:HB3	12:Nu:207:ARG:HB3	1.87	0.55
13:Oj:304:VAL:HG22	13:Pq:385:GLU:HG2	1.87	0.55
13:Pc:384:HIS:HB3	13:Pd:305:GLU:HB2	1.88	0.55
1:Aj:22:ILE:HG21	1:Aj:234:MET:HB2	1.88	0.55
1:Ap:144:PRO:HG2	1:Ap:147:ALA:HB2	1.89	0.55
1:As:36:LYS:HB3	1:As:225:VAL:HG22	1.89	0.55
1:Aw:1:MET:HB2	1:Aw:251:VAL:HG13	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Cp:129:ASN:HB2	4:Cp:156:ASN:HB3	1.86	0.55
4:Cq:139:GLY:HA3	4:Cr:148:TYR:HD1	1.72	0.55
11:Lo:77:ARG:HH12	11:Lp:73:ARG:HH21	1.55	0.55
13:Ov:296:ASP:HB3	13:Ov:396:THR:HG23	1.89	0.55
1:As:49:ILE:HB	1:As:66:LEU:HB3	1.89	0.55
1:Ax:152:ILE:H	1:Ax:217:GLN:HG3	1.71	0.55
4:Bx:148:TYR:HD1	4:Cw:139:GLY:HA3	1.72	0.55
5:Df:360:ILE:HG22	5:Dh:136:ASN:HB2	1.88	0.55
5:Dh:360:ILE:HG22	5:Dj:136:ASN:HB2	1.88	0.55
5:Di:224:ARG:HH21	6:Dz:368:GLN:HB2	1.72	0.55
5:Dj:122:LEU:HB2	5:Dj:131:ALA:HB3	1.89	0.55
5:Dl:122:LEU:HB2	5:Dl:131:ALA:HB3	1.89	0.55
5:Dn:250:ILE:HG12	5:Dn:261:VAL:HG13	1.89	0.55
11:Kz:78:ALA:HB3	11:La:91:ALA:HB3	1.88	0.55
13:Ph:270:GLN:HG3	13:Ph:299:LEU:HD11	1.87	0.55
13:Pp:385:GLU:HG2	13:Pq:304:VAL:HG22	1.89	0.55
1:Ab:1:MET:H1	1:Ab:255:MET:HG3	1.72	0.55
1:Af:243:MET:HE3	1:Al:26:LEU:HD11	1.89	0.55
3:Bg:119:THR:HG22	3:Bg:123:GLU:H	1.72	0.55
4:Cn:139:GLY:HA3	4:Co:148:TYR:HD1	1.72	0.55
4:Ct:139:GLY:HA3	4:Cu:148:TYR:HD1	1.72	0.55
4:Cv:184:LEU:HD12	4:Cv:188:ASN:HB2	1.89	0.55
6:Ej:201:ASP:HB3	6:Ej:221:ALA:HB3	1.89	0.55
8:Gw:116:ARG:HA	8:Gw:149:GLN:HE22	1.72	0.55
11:Lj:106:SER:HB3	12:Np:207:ARG:HB3	1.88	0.55
13:Oz:296:ASP:HB3	13:Oz:396:THR:HG23	1.89	0.55
13:Pe:274:LEU:HD11	13:Pe:435:VAL:HG13	1.88	0.55
13:Pf:295:VAL:HG12	13:Pf:397:VAL:HG22	1.89	0.55
3:Be:17:ASN:HD21	3:Bu:54:PRO:HG3	1.72	0.55
4:Ch:66:TRP:HA	4:Ch:192:ARG:HD3	1.88	0.55
4:Cl:66:TRP:HA	4:Cl:192:ARG:HD3	1.87	0.55
4:Cm:66:TRP:HA	4:Cm:192:ARG:HD3	1.88	0.55
5:Cx:136:ASN:HB2	5:Dv:360:ILE:HG22	1.88	0.55
5:Cy:136:ASN:HB2	5:Dw:360:ILE:HG22	1.88	0.55
5:Df:122:LEU:HB2	5:Df:131:ALA:HB3	1.89	0.55
5:Df:250:ILE:HG12	5:Df:261:VAL:HG13	1.89	0.55
5:Dr:250:ILE:HG12	5:Dr:261:VAL:HG13	1.89	0.55
12:Np:104:ILE:HG23	12:Np:114:VAL:HG11	1.89	0.55
1:Ac:46:TYR:HD2	1:Ac:67:MET:HB3	1.71	0.55
5:Db:250:ILE:HG12	5:Db:261:VAL:HG13	1.89	0.55
5:Db:360:ILE:HG22	5:Dd:136:ASN:HB2	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dd:250:ILE:HG12	5:Dd:261:VAL:HG13	1.89	0.55
5:Dh:250:ILE:HG12	5:Dh:261:VAL:HG13	1.89	0.55
5:Do:360:ILE:HG22	5:Dq:136:ASN:HB2	1.88	0.55
5:Dr:153:VAL:HG21	5:Ds:148:ASP:HB3	1.88	0.55
6:El:27:GLU:HG3	9:Il:134:GLN:HE22	1.72	0.55
8:Gl:144:LEU:HA	8:Gl:147:ARG:HD2	1.88	0.55
10:Iz:248:ALA:HB1	10:Ja:248:ALA:HB1	1.88	0.55
10:Jn:248:ALA:HB1	10:Jo:248:ALA:HB1	1.88	0.55
10:Jp:248:ALA:HB1	10:Jq:248:ALA:HB1	1.88	0.55
12:Mo:104:ILE:HG23	12:Mo:114:VAL:HG11	1.89	0.55
12:Nr:104:ILE:HG23	12:Nr:114:VAL:HG11	1.89	0.55
12:Nz:104:ILE:HG23	12:Nz:114:VAL:HG11	1.89	0.55
13:Oy:325:GLU:HB2	13:Oz:370:LYS:HB2	1.89	0.55
1:Al:50:ASN:HB2	1:Al:66:LEU:H	1.72	0.54
1:Am:166:GLN:HG3	4:Ct:126:ASN:HB3	1.88	0.54
4:Bz:139:GLY:HA3	4:Ca:148:TYR:HD1	1.73	0.54
4:Cc:139:GLY:HA3	4:Cd:148:TYR:HD1	1.72	0.54
4:Cu:122:ASP:HB2	4:Cv:167:ASN:HB2	1.89	0.54
5:Da:224:ARG:HH21	6:Er:368:GLN:HB2	1.72	0.54
5:Di:122:LEU:HB2	5:Di:131:ALA:HB3	1.90	0.54
5:Dj:360:ILE:HG22	5:Dl:136:ASN:HB2	1.87	0.54
5:Dn:360:ILE:HG22	5:Dp:136:ASN:HB2	1.87	0.54
5:Dr:360:ILE:HG22	5:Dt:136:ASN:HB2	1.88	0.54
5:Dt:250:ILE:HG12	5:Dt:261:VAL:HG13	1.89	0.54
6:Em:92:GLU:HB2	6:Em:103:ARG:HB3	1.88	0.54
8:Gf:144:LEU:HA	8:Gf:147:ARG:HD2	1.88	0.54
10:Jt:248:ALA:HB1	10:Ju:248:ALA:HB1	1.88	0.54
11:Ln:106:SER:HB3	12:Nt:207:ARG:HB3	1.87	0.54
12:Mk:104:ILE:HG23	12:Mk:114:VAL:HG11	1.89	0.54
13:Ot:267:GLU:HG2	13:Ot:299:LEU:HD23	1.87	0.54
1:Af:36:LYS:HB3	1:Af:225:VAL:HG22	1.89	0.54
4:Cr:139:GLY:HA3	4:Cs:148:TYR:HD1	1.71	0.54
4:Cu:184:LEU:HD12	4:Cu:188:ASN:HB2	1.89	0.54
4:Cw:66:TRP:HA	4:Cw:192:ARG:HD3	1.88	0.54
5:Dg:122:LEU:HB2	5:Dg:131:ALA:HB3	1.90	0.54
5:Dg:153:VAL:HG21	5:Dh:148:ASP:HB3	1.89	0.54
5:Di:250:ILE:HG12	5:Di:261:VAL:HG13	1.89	0.54
5:Dj:250:ILE:HG12	5:Dj:261:VAL:HG13	1.90	0.54
5:Ds:122:LEU:HB2	5:Ds:131:ALA:HB3	1.89	0.54
12:Mm:104:ILE:HG23	12:Mm:114:VAL:HG11	1.90	0.54
12:Nn:104:ILE:HG23	12:Nn:114:VAL:HG11	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Nt:104:ILE:HG23	12:Nt:114:VAL:HG11	1.90	0.54
12:Nv:104:ILE:HG23	12:Nv:114:VAL:HG11	1.90	0.54
12:Nx:104:ILE:HG23	12:Nx:114:VAL:HG11	1.90	0.54
13:Pi:432:ILE:HD12	13:Pi:437:TYR:HB2	1.89	0.54
13:Pp:274:LEU:HD11	13:Pp:435:VAL:HG13	1.89	0.54
1:Ao:185:LEU:HB3	1:Ao:193:TYR:HB3	1.90	0.54
1:Ar:17:THR:HG21	1:Ar:74:VAL:HG21	1.88	0.54
1:Bb:119:GLN:HE22	1:Bb:220:LEU:HD22	1.73	0.54
4:Cb:139:GLY:HA3	4:Cc:148:TYR:HD1	1.72	0.54
4:Cf:139:GLY:HA3	4:Cg:148:TYR:HD1	1.72	0.54
4:Ck:139:GLY:HA3	4:Cl:148:TYR:HD1	1.73	0.54
4:Ct:184:LEU:HD12	4:Ct:188:ASN:HB2	1.89	0.54
4:Cw:184:LEU:HD12	4:Cw:188:ASN:HB2	1.89	0.54
5:Cy:250:ILE:HG12	5:Cy:261:VAL:HG13	1.89	0.54
5:Dc:122:LEU:HB2	5:Dc:131:ALA:HB3	1.89	0.54
5:De:122:LEU:HB2	5:De:131:ALA:HB3	1.90	0.54
5:Dl:250:ILE:HG12	5:Dl:261:VAL:HG13	1.90	0.54
5:Dm:250:ILE:HG12	5:Dm:261:VAL:HG13	1.89	0.54
5:Do:122:LEU:HB2	5:Do:131:ALA:HB3	1.90	0.54
5:Dq:122:LEU:HB2	5:Dq:131:ALA:HB3	1.90	0.54
5:Ds:360:ILE:HG22	5:Du:136:ASN:HB2	1.88	0.54
8:Gu:154:LEU:HB3	8:Gu:164:TYR:HE1	1.71	0.54
12:Me:104:ILE:HG23	12:Me:114:VAL:HG11	1.90	0.54
12:Mi:104:ILE:HG23	12:Mi:114:VAL:HG11	1.90	0.54
12:Nl:104:ILE:HG23	12:Nl:114:VAL:HG11	1.89	0.54
12:Oh:104:ILE:HG23	12:Oh:114:VAL:HG11	1.89	0.54
13:Ou:267:GLU:HG2	13:Ou:299:LEU:HD23	1.88	0.54
1:Ad:15:GLN:HB3	1:Ad:241:TYR:HD2	1.73	0.54
1:Au:102:PHE:HB3	1:Au:114:TYR:HB3	1.89	0.54
4:Ch:139:GLY:HA3	4:Ci:148:TYR:HD1	1.72	0.54
4:Cp:66:TRP:HA	4:Cp:192:ARG:HD3	1.88	0.54
5:Cz:122:LEU:HB2	5:Cz:131:ALA:HB3	1.89	0.54
5:Dd:122:LEU:HB2	5:Dd:131:ALA:HB3	1.89	0.54
5:Dh:122:LEU:HB2	5:Dh:131:ALA:HB3	1.90	0.54
5:Dk:122:LEU:HB2	5:Dk:131:ALA:HB3	1.90	0.54
5:Ds:250:ILE:HG12	5:Ds:261:VAL:HG13	1.89	0.54
5:Du:250:ILE:HG12	5:Du:261:VAL:HG13	1.89	0.54
6:Ed:201:ASP:HB3	6:Ed:221:ALA:HB3	1.90	0.54
6:Ek:342:ILE:HG21	6:Ek:367:ILE:HD11	1.90	0.54
6:Ep:85:VAL:HG22	6:Ep:108:ILE:HG12	1.90	0.54
10:Jr:248:ALA:HB1	10:Js:248:ALA:HB1	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:La:78:ALA:HB3	11:Lb:91:ALA:HB3	1.89	0.54
12:Of:104:ILE:HG23	12:Of:114:VAL:HG11	1.90	0.54
1:Ae:47:GLN:HE22	1:Aw:82:THR:HB	1.71	0.54
1:Ae:115:SER:HB2	1:Ae:192:LEU:HD23	1.89	0.54
2:Ba:105:LEU:HD13	2:Ba:113:LEU:HD21	1.90	0.54
3:Bn:426:LEU:HD23	3:Bn:427:GLN:HG3	1.90	0.54
3:Bt:4:VAL:HG13	3:Bt:57:GLY:HA2	1.89	0.54
4:Ce:139:GLY:HA3	4:Cf:148:TYR:HD1	1.72	0.54
5:Dk:250:ILE:HG12	5:Dk:261:VAL:HG13	1.89	0.54
5:Dp:360:ILE:HG22	5:Dr:136:ASN:HB2	1.88	0.54
5:Ds:224:ARG:HH21	6:Ej:368:GLN:HB2	1.72	0.54
5:Dt:122:LEU:HB2	5:Dt:131:ALA:HB3	1.90	0.54
6:Dz:92:GLU:HB2	6:Dz:103:ARG:HB3	1.89	0.54
6:Eh:88:ILE:HG23	6:Eh:106:ILE:HG12	1.90	0.54
8:Gm:154:LEU:HB3	8:Gm:164:TYR:HE1	1.73	0.54
12:Mq:104:ILE:HG23	12:Mq:114:VAL:HG11	1.90	0.54
12:Ob:104:ILE:HG23	12:Ob:114:VAL:HG11	1.90	0.54
12:Od:104:ILE:HG23	12:Od:114:VAL:HG11	1.90	0.54
12:Oe:104:ILE:HG23	12:Oe:114:VAL:HG11	1.89	0.54
13:Pa:381:THR:HG23	13:Pb:308:ARG:HG2	1.90	0.54
13:Pn:274:LEU:HD21	13:Pn:435:VAL:HG13	1.88	0.54
1:Aj:115:SER:HB2	1:Aj:192:LEU:HD23	1.90	0.54
1:Ar:120:PHE:HB3	1:Ar:128:ILE:HD11	1.87	0.54
1:Aw:48:ASN:HD21	1:Aw:51:GLN:HG2	1.73	0.54
4:Bx:139:GLY:HA3	4:By:148:TYR:HD1	1.72	0.54
4:Cm:139:GLY:HA3	4:Cn:148:TYR:HD1	1.72	0.54
4:Co:66:TRP:HA	4:Co:192:ARG:HD3	1.88	0.54
4:Cv:139:GLY:HA3	4:Cw:148:TYR:HD1	1.72	0.54
5:Da:250:ILE:HG12	5:Da:261:VAL:HG13	1.89	0.54
5:Db:122:LEU:HB2	5:Db:131:ALA:HB3	1.89	0.54
5:Dl:153:VAL:HG21	5:Dm:148:ASP:HB3	1.90	0.54
5:Dv:122:LEU:HB2	5:Dv:131:ALA:HB3	1.90	0.54
6:Ej:126:ILE:HB	6:Ej:169:THR:HG22	1.90	0.54
12:Mg:104:ILE:HG23	12:Mg:114:VAL:HG11	1.90	0.54
12:Mh:104:ILE:HG23	12:Mh:114:VAL:HG11	1.89	0.54
12:Og:104:ILE:HG23	12:Og:114:VAL:HG11	1.90	0.54
13:Pa:385:GLU:HG2	13:Pb:304:VAL:HG22	1.88	0.54
1:Ad:41:PHE:HB3	1:Ah:31:THR:HG22	1.89	0.54
1:Ah:144:PRO:HG2	1:Ah:147:ALA:HB2	1.89	0.54
1:Ay:80:VAL:HG22	2:Bd:76:ARG:HH21	1.73	0.54
2:Bw:91:LEU:HB2	2:Bw:120:PRO:HG2	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ce:206:ILE:HG12	4:Ce:235:TYR:HD1	1.73	0.54
4:Cv:66:TRP:HA	4:Cv:192:ARG:HD3	1.88	0.54
5:Dn:122:LEU:HB2	5:Dn:131:ALA:HB3	1.90	0.54
5:Dq:250:ILE:HG12	5:Dq:261:VAL:HG13	1.89	0.54
5:Dr:122:LEU:HB2	5:Dr:131:ALA:HB3	1.90	0.54
5:Du:122:LEU:HB2	5:Du:131:ALA:HB3	1.90	0.54
5:Du:360:ILE:HG22	5:Dw:136:ASN:HB2	1.88	0.54
6:Ec:201:ASP:HB3	6:Ec:221:ALA:HB3	1.90	0.54
6:Eu:201:ASP:HB3	6:Eu:221:ALA:HB3	1.90	0.54
8:Fy:116:ARG:HA	8:Fy:149:GLN:HE22	1.73	0.54
12:Mf:104:ILE:HG23	12:Mf:114:VAL:HG11	1.90	0.54
12:Nw:104:ILE:HG23	12:Nw:114:VAL:HG11	1.89	0.54
12:Oc:104:ILE:HG23	12:Oc:114:VAL:HG11	1.89	0.54
13:Pg:395:GLN:HG3	13:Pg:441:ARG:HH22	1.73	0.54
4:By:139:GLY:HA3	4:Bz:148:TYR:HD1	1.72	0.54
4:By:206:ILE:HG12	4:By:235:TYR:HD1	1.73	0.54
4:Bz:66:TRP:HA	4:Bz:192:ARG:HD3	1.89	0.54
4:Cj:139:GLY:HA3	4:Ck:148:TYR:HD1	1.72	0.54
4:Cs:139:GLY:HA3	4:Ct:148:TYR:HD1	1.73	0.54
4:Cv:245:GLN:HG3	4:Cw:200:ASN:HD21	1.73	0.54
5:Dw:250:ILE:HG12	5:Dw:261:VAL:HG13	1.90	0.54
6:Ej:80:PHE:HA	9:Hj:136:VAL:HG21	1.88	0.54
6:Es:201:ASP:HB3	6:Es:221:ALA:HB3	1.90	0.54
12:Md:104:ILE:HG23	12:Md:114:VAL:HG11	1.90	0.54
12:Ms:104:ILE:HG23	12:Ms:114:VAL:HG11	1.90	0.54
12:Mw:104:ILE:HG23	12:Mw:114:VAL:HG11	1.89	0.54
12:Nh:104:ILE:HG23	12:Nh:114:VAL:HG11	1.90	0.54
13:Oy:298:GLU:HB2	13:Oy:394:ARG:HB3	1.90	0.54
13:Pd:396:THR:HG22	13:Pd:444:LEU:HB2	1.90	0.54
1:An:144:PRO:HG2	1:An:147:ALA:HB2	1.89	0.54
1:Bb:144:PRO:HG2	1:Bb:147:ALA:HB2	1.90	0.54
3:Bl:33:GLU:HB3	3:Bl:397:ILE:HG22	1.90	0.54
3:Bu:9:LEU:HD22	3:Bu:416:ASN:HB3	1.89	0.54
4:Bz:206:ILE:HG12	4:Bz:235:TYR:HD1	1.73	0.54
4:Cf:206:ILE:HG12	4:Cf:235:TYR:HD1	1.73	0.54
4:Cg:139:GLY:HA3	4:Ch:148:TYR:HD1	1.72	0.54
4:Cl:139:GLY:HA3	4:Cm:148:TYR:HD1	1.72	0.54
4:Cp:139:GLY:HA3	4:Cq:148:TYR:HD1	1.73	0.54
4:Cq:66:TRP:HA	4:Cq:192:ARG:HD3	1.89	0.54
4:Ct:206:ILE:HG12	4:Ct:235:TYR:HD1	1.73	0.54
5:Cx:122:LEU:HB2	5:Cx:131:ALA:HB3	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cz:250:ILE:HG12	5:Cz:261:VAL:HG13	1.89	0.54
5:Dg:250:ILE:HG12	5:Dg:261:VAL:HG13	1.89	0.54
5:Dp:122:LEU:HB2	5:Dp:131:ALA:HB3	1.90	0.54
5:Dq:360:ILE:HG22	5:Ds:136:ASN:HB2	1.88	0.54
8:Gc:116:ARG:HA	8:Gc:149:GLN:HE22	1.73	0.54
12:Nj:104:ILE:HG23	12:Nj:114:VAL:HG11	1.90	0.54
13:Pq:397:VAL:HB	13:Pq:445:LEU:HD12	1.90	0.54
1:Ai:44:LEU:HD13	1:At:86:VAL:HG21	1.89	0.54
1:An:36:LYS:HD3	1:An:225:VAL:HA	1.89	0.54
3:Bq:351:VAL:HG21	3:Bq:357:LEU:HD21	1.90	0.54
4:Cd:206:ILE:HG12	4:Cd:235:TYR:HD1	1.73	0.54
4:Cu:139:GLY:HA3	4:Cv:148:TYR:HD1	1.72	0.54
4:Cu:206:ILE:HG12	4:Cu:235:TYR:HD1	1.73	0.54
5:Da:122:LEU:HB2	5:Da:131:ALA:HB3	1.90	0.54
5:Dg:224:ARG:HH21	6:Dx:368:GLN:HB2	1.73	0.54
5:Dm:122:LEU:HB2	5:Dm:131:ALA:HB3	1.90	0.54
5:Dm:153:VAL:HG21	5:Dn:148:ASP:HB3	1.89	0.54
5:Dn:153:VAL:HG21	5:Do:148:ASP:HB3	1.90	0.54
6:Ef:92:GLU:HB2	6:Ef:103:ARG:HB3	1.90	0.54
8:Go:154:LEU:HB3	8:Go:164:TYR:HE1	1.71	0.54
11:Lb:77:ARG:HH12	11:Lc:73:ARG:HH21	1.55	0.54
12:Ml:104:ILE:HG23	12:Ml:114:VAL:HG11	1.89	0.54
12:Nf:104:ILE:HG23	12:Nf:114:VAL:HG11	1.89	0.54
12:Oi:104:ILE:HG23	12:Oi:114:VAL:HG11	1.90	0.54
1:Ak:152:ILE:HB	1:Ak:217:GLN:HE21	1.71	0.53
3:Bm:95:ARG:HD2	3:Bm:144:PRO:HG2	1.89	0.53
4:By:66:TRP:HA	4:By:192:ARG:HD3	1.89	0.53
4:Ca:139:GLY:HA3	4:Cb:148:TYR:HD1	1.72	0.53
4:Cg:184:LEU:HD12	4:Cg:188:ASN:HB2	1.89	0.53
4:Cl:206:ILE:HG12	4:Cl:235:TYR:HD1	1.73	0.53
4:Cn:206:ILE:HG12	4:Cn:235:TYR:HD1	1.73	0.53
4:Cs:206:ILE:HG12	4:Cs:235:TYR:HD1	1.73	0.53
5:Cy:122:LEU:HB2	5:Cy:131:ALA:HB3	1.90	0.53
5:Do:250:ILE:HG12	5:Do:261:VAL:HG13	1.90	0.53
13:Oz:274:LEU:HD22	13:Oz:295:VAL:HG11	1.90	0.53
13:Pf:385:GLU:HG2	13:Pg:304:VAL:HG22	1.89	0.53
13:Pp:274:LEU:HB3	13:Pp:295:VAL:HG21	1.90	0.53
1:Ag:137:LEU:HG	1:Ag:139:PRO:HD2	1.90	0.53
1:Aq:115:SER:HB2	1:Aq:192:LEU:HD23	1.88	0.53
3:Be:3:TYR:HA	3:Be:6:LEU:HB2	1.90	0.53
3:Bs:131:ASN:HB2	3:Bs:138:LEU:HD21	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ci:139:GLY:HA3	4:Cj:148:TYR:HD1	1.72	0.53
4:Ck:184:LEU:HD12	4:Ck:188:ASN:HB2	1.89	0.53
4:Ck:206:ILE:HG12	4:Ck:235:TYR:HD1	1.73	0.53
4:Cq:206:ILE:HG12	4:Cq:235:TYR:HD1	1.73	0.53
4:Cs:184:LEU:HD12	4:Cs:188:ASN:HB2	1.90	0.53
4:Cu:66:TRP:HA	4:Cu:192:ARG:HD3	1.89	0.53
5:Dj:153:VAL:HG21	5:Dk:148:ASP:HB3	1.90	0.53
5:Dl:360:ILE:HG22	5:Dn:136:ASN:HB2	1.88	0.53
5:Ds:153:VAL:HG21	5:Dt:148:ASP:HB3	1.91	0.53
5:Dv:250:ILE:HG12	5:Dv:261:VAL:HG13	1.89	0.53
5:Dw:122:LEU:HB2	5:Dw:131:ALA:HB3	1.90	0.53
6:El:201:ASP:HB3	6:El:221:ALA:HB3	1.89	0.53
6:Et:201:ASP:HB3	6:Et:221:ALA:HB3	1.90	0.53
12:Mj:104:ILE:HG23	12:Mj:114:VAL:HG11	1.90	0.53
12:Mu:104:ILE:HG23	12:Mu:114:VAL:HG11	1.90	0.53
12:Oa:104:ILE:HG23	12:Oa:114:VAL:HG11	1.90	0.53
13:Ov:385:GLU:HG2	13:Ow:304:VAL:HG22	1.89	0.53
1:Aw:95:MET:HE1	1:Aw:152:ILE:HG21	1.90	0.53
4:Ca:184:LEU:HD12	4:Ca:188:ASN:HB2	1.89	0.53
4:Ca:206:ILE:HG12	4:Ca:235:TYR:HD1	1.73	0.53
4:Cd:139:GLY:HA3	4:Ce:148:TYR:HD1	1.72	0.53
4:Cj:184:LEU:HD12	4:Cj:188:ASN:HB2	1.90	0.53
5:Dv:21:ILE:HG23	5:Dv:197:LEU:HD11	1.91	0.53
8:Gk:116:ARG:HA	8:Gk:149:GLN:HE22	1.74	0.53
11:Kl:77:ARG:HH12	11:Km:73:ARG:HH21	1.55	0.53
12:Nu:104:ILE:HG23	12:Nu:114:VAL:HG11	1.90	0.53
12:Ny:104:ILE:HG23	12:Ny:114:VAL:HG11	1.90	0.53
13:Om:267:GLU:HG2	13:Om:299:LEU:HD23	1.91	0.53
13:Pb:295:VAL:HG12	13:Pb:397:VAL:HG22	1.90	0.53
1:Aj:50:ASN:HB3	1:Aj:66:LEU:H	1.74	0.53
1:Ao:125:GLU:HB3	1:Ao:136:ARG:HH12	1.74	0.53
2:Ba:112:LEU:HD11	2:Ba:128:PRO:HB2	1.89	0.53
3:Bo:353:ASN:HB3	3:Bo:371:SER:HA	1.91	0.53
3:Bs:411:ARG:HH21	3:Bu:424:ASN:HB3	1.73	0.53
4:Cb:184:LEU:HD12	4:Cb:188:ASN:HB2	1.89	0.53
4:Ce:184:LEU:HD12	4:Ce:188:ASN:HB2	1.90	0.53
4:Ch:184:LEU:HD12	4:Ch:188:ASN:HB2	1.90	0.53
4:Cn:66:TRP:HA	4:Cn:192:ARG:HD3	1.89	0.53
4:Co:139:GLY:HA3	4:Cp:148:TYR:HD1	1.72	0.53
5:Cx:21:ILE:HG23	5:Cx:197:LEU:HD11	1.91	0.53
8:Gg:116:ARG:HA	8:Gg:149:GLN:HE22	1.73	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Gl:66:ALA:HB1	8:Gl:75:GLU:HG2	1.90	0.53
8:Gs:116:ARG:HA	8:Gs:149:GLN:HE22	1.72	0.53
11:Ld:77:ARG:HH12	11:Le:73:ARG:HH21	1.56	0.53
12:Mn:104:ILE:HG23	12:Mn:114:VAL:HG11	1.89	0.53
12:My:104:ILE:HG23	12:My:114:VAL:HG11	1.90	0.53
12:Na:104:ILE:HG23	12:Na:114:VAL:HG11	1.90	0.53
12:Nb:104:ILE:HG23	12:Nb:114:VAL:HG11	1.89	0.53
12:Ne:104:ILE:HG23	12:Ne:114:VAL:HG11	1.90	0.53
13:Ol:385:GLU:HG2	13:Om:304:VAL:HG22	1.90	0.53
13:Op:385:GLU:HG2	13:Oq:304:VAL:HG22	1.90	0.53
1:Aq:144:PRO:HG2	1:Aq:147:ALA:HB2	1.90	0.53
1:Ax:47:GLN:HB3	1:Ax:68:LEU:HB2	1.91	0.53
4:Bx:206:ILE:HG12	4:Bx:235:TYR:HD1	1.73	0.53
4:Bz:245:GLN:HG3	4:Ca:200:ASN:HD21	1.74	0.53
4:Cl:184:LEU:HD12	4:Cl:188:ASN:HB2	1.90	0.53
4:Ct:66:TRP:HA	4:Ct:192:ARG:HD3	1.88	0.53
4:Cu:119:LYS:HB3	4:Cw:199:LEU:HD12	1.90	0.53
6:Eo:126:ILE:HB	6:Eo:169:THR:HG22	1.91	0.53
9:It:139:LYS:HB3	9:It:141:GLN:HE22	1.74	0.53
11:Ki:78:ALA:HB3	11:Kj:91:ALA:HB3	1.91	0.53
12:Nd:104:ILE:HG23	12:Nd:114:VAL:HG11	1.90	0.53
13:Oj:398:ALA:HB2	13:Pq:433:GLY:HA3	1.91	0.53
3:Br:348:LEU:HD11	3:Br:387:ILE:HD11	1.90	0.53
4:Cc:184:LEU:HD12	4:Cc:188:ASN:HB2	1.89	0.53
4:Cc:245:GLN:HG3	4:Cd:200:ASN:HD21	1.74	0.53
4:Cd:184:LEU:HD12	4:Cd:188:ASN:HB2	1.90	0.53
4:Cj:206:ILE:HG12	4:Cj:235:TYR:HD1	1.73	0.53
4:Cm:206:ILE:HG12	4:Cm:235:TYR:HD1	1.73	0.53
4:Co:245:GLN:HG3	4:Cp:200:ASN:HD21	1.74	0.53
5:Dc:250:ILE:HG12	5:Dc:261:VAL:HG13	1.89	0.53
6:Ef:209:LYS:HD3	6:Ef:212:GLN:HE21	1.73	0.53
6:En:92:GLU:HB2	6:En:103:ARG:HB3	1.90	0.53
8:Gs:99:MET:HB3	8:Gs:114:LEU:HD21	1.91	0.53
12:Mp:104:ILE:HG23	12:Mp:114:VAL:HG11	1.89	0.53
12:Ni:104:ILE:HG23	12:Ni:114:VAL:HG11	1.90	0.53
13:Pq:322:TYR:HB3	13:Pq:373:THR:HB	1.90	0.53
1:Aa:144:PRO:HG2	1:Aa:147:ALA:HB2	1.90	0.53
1:Ah:1:MET:HB3	1:Ai:16:GLN:HE22	1.74	0.53
1:Ah:96:MET:HB2	1:Ah:221:GLU:HG3	1.89	0.53
1:An:50:ASN:HB2	1:An:66:LEU:H	1.72	0.53
1:Ax:181:ASN:HB3	1:Ax:199:SER:HA	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Cg:206:ILE:HG12	4:Cg:235:TYR:HD1	1.73	0.53
4:Cl:245:GLN:HG3	4:Cm:200:ASN:HD21	1.74	0.53
4:Cn:184:LEU:HD12	4:Cn:188:ASN:HB2	1.90	0.53
4:Cv:206:ILE:HG12	4:Cv:235:TYR:HD1	1.73	0.53
6:Eo:109:TYR:CD2	11:La:73:ARG:CD	2.91	0.53
8:Gu:116:ARG:HA	8:Gu:149:GLN:HE22	1.74	0.53
12:Ng:104:ILE:HG23	12:Ng:114:VAL:HG11	1.90	0.53
13:Pp:432:ILE:HD12	13:Pp:437:TYR:HB2	1.89	0.53
1:Aw:35:LYS:HD3	1:Aw:81:HIS:HA	1.90	0.53
3:Bf:41:VAL:HG12	3:Bf:56:GLN:HE21	1.72	0.53
3:Bo:357:LEU:HB3	3:Bo:365:TRP:HB3	1.90	0.53
4:Cd:129:ASN:HB2	4:Cd:156:ASN:HB3	1.91	0.53
4:Cm:184:LEU:HD12	4:Cm:188:ASN:HB2	1.89	0.53
4:Cp:206:ILE:HG12	4:Cp:235:TYR:HD1	1.73	0.53
5:Cx:250:ILE:HG12	5:Cx:261:VAL:HG13	1.89	0.53
5:De:250:ILE:HG12	5:De:261:VAL:HG13	1.89	0.53
5:Df:153:VAL:HG21	5:Dg:148:ASP:HB3	1.90	0.53
5:Dg:87:ALA:HB2	5:Dg:101:ILE:HG22	1.91	0.53
5:Dw:21:ILE:HG23	5:Dw:197:LEU:HD11	1.91	0.53
6:Er:201:ASP:HB3	6:Er:221:ALA:HB3	1.91	0.53
8:Gi:116:ARG:HA	8:Gi:149:GLN:HE22	1.74	0.53
11:Ka:77:ARG:HH12	11:Kb:73:ARG:HH21	1.56	0.53
12:Ns:104:ILE:HG23	12:Ns:114:VAL:HG11	1.90	0.53
13:Pm:432:ILE:HG23	13:Pm:437:TYR:HB3	1.89	0.53
1:At:36:LYS:HB3	1:At:225:VAL:HG22	1.91	0.53
4:Bz:184:LEU:HD12	4:Bz:188:ASN:HB2	1.89	0.53
5:Di:87:ALA:HB2	5:Di:101:ILE:HG22	1.91	0.53
8:Gq:116:ARG:HA	8:Gq:149:GLN:HE22	1.74	0.53
12:Mx:104:ILE:HG23	12:Mx:114:VAL:HG11	1.90	0.53
12:Mz:104:ILE:HG23	12:Mz:114:VAL:HG11	1.90	0.53
12:Nc:104:ILE:HG23	12:Nc:114:VAL:HG11	1.90	0.53
13:Pf:432:ILE:HD12	13:Pf:437:TYR:HB2	1.90	0.53
1:Ae:231:LEU:HD13	3:Bs:431:LEU:HD21	1.91	0.53
1:Ai:177:VAL:HG22	1:Ai:204:GLU:HG3	1.91	0.53
1:Al:47:GLN:HA	1:Av:83:ASN:HD21	1.72	0.53
1:At:95:MET:HE1	1:At:152:ILE:HG21	1.91	0.53
4:Cc:206:ILE:HG12	4:Cc:235:TYR:HD1	1.73	0.53
4:Ci:245:GLN:HG3	4:Cj:200:ASN:HD21	1.74	0.53
4:Co:184:LEU:HD12	4:Co:188:ASN:HB2	1.90	0.53
6:Ec:56:PHE:HD1	9:Ic:139:LYS:HE2	1.74	0.53
6:Ek:201:ASP:HB3	6:Ek:221:ALA:HB3	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:En:109:TYR:HB3	11:Kx:77:ARG:HH22	1.73	0.53
8:Gi:99:MET:HB3	8:Gi:114:LEU:HD21	1.90	0.53
11:Kj:77:ARG:HH12	11:Kk:73:ARG:HH21	1.56	0.53
11:La:71:GLY:HA2	11:Lb:99:ARG:HG2	1.91	0.53
12:No:104:ILE:HG23	12:No:114:VAL:HG11	1.90	0.53
12:Nq:104:ILE:HG23	12:Nq:114:VAL:HG11	1.90	0.53
13:Op:274:LEU:HD23	13:Op:295:VAL:HG11	1.91	0.53
1:Ar:36:LYS:HB3	1:Ar:225:VAL:HG22	1.91	0.52
4:Ce:245:GLN:HG3	4:Cf:200:ASN:HD21	1.74	0.52
4:Cf:184:LEU:HD12	4:Cf:188:ASN:HB2	1.90	0.52
4:Ch:206:ILE:HG12	4:Ch:235:TYR:HD1	1.73	0.52
4:Ci:206:ILE:HG12	4:Ci:235:TYR:HD1	1.73	0.52
4:Cr:206:ILE:HG12	4:Cr:235:TYR:HD1	1.73	0.52
5:Cy:21:ILE:HG23	5:Cy:197:LEU:HD11	1.91	0.52
6:Ei:201:ASP:HB3	6:Ei:221:ALA:HB3	1.91	0.52
6:En:201:ASP:HB3	6:En:221:ALA:HB3	1.91	0.52
8:Go:116:ARG:HA	8:Go:149:GLN:HE22	1.74	0.52
8:Gu:99:MET:HB3	8:Gu:114:LEU:HD21	1.92	0.52
11:Kr:78:ALA:HB3	11:Ks:91:ALA:HB3	1.91	0.52
12:Mt:104:ILE:HG23	12:Mt:114:VAL:HG11	1.89	0.52
12:Nk:104:ILE:HG23	12:Nk:114:VAL:HG11	1.90	0.52
13:Ou:325:GLU:HG3	13:Ov:370:LYS:HB2	1.91	0.52
13:Pk:320:SER:HB2	13:Pk:375:ASN:HB3	1.91	0.52
13:Pq:326:ASP:HB3	13:Pq:369:HIS:HB3	1.92	0.52
1:Ad:177:VAL:HG22	1:Ad:204:GLU:HG2	1.92	0.52
3:Br:353:ASN:HB3	3:Br:371:SER:HA	1.90	0.52
4:Bx:184:LEU:HD12	4:Bx:188:ASN:HB2	1.90	0.52
4:Cf:245:GLN:HG3	4:Cg:200:ASN:HD21	1.75	0.52
4:Cm:245:GLN:HG3	4:Cn:200:ASN:HD21	1.74	0.52
4:Ct:245:GLN:HG3	4:Cu:200:ASN:HD21	1.74	0.52
5:Dc:87:ALA:HB2	5:Dc:101:ILE:HG22	1.91	0.52
5:Df:87:ALA:HB2	5:Df:101:ILE:HG22	1.91	0.52
5:Dr:21:ILE:HG23	5:Dr:197:LEU:HD11	1.91	0.52
8:Gw:99:MET:HB3	8:Gw:114:LEU:HD21	1.91	0.52
12:Nm:104:ILE:HG23	12:Nm:114:VAL:HG11	1.90	0.52
1:Aw:98:GLU:O	1:Aw:213:GLY:CA	2.57	0.52
4:By:184:LEU:HD12	4:By:188:ASN:HB2	1.89	0.52
4:Co:206:ILE:HG12	4:Co:235:TYR:HD1	1.73	0.52
4:Cr:184:LEU:HD12	4:Cr:188:ASN:HB2	1.90	0.52
5:Df:21:ILE:HG23	5:Df:197:LEU:HD11	1.92	0.52
5:Di:153:VAL:HG21	5:Dj:148:ASP:HB3	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ds:21:ILE:HG23	5:Ds:197:LEU:HD11	1.92	0.52
6:Eb:109:TYR:HA	11:Jx:73:ARG:HH11	1.74	0.52
8:Go:99:MET:HB3	8:Go:114:LEU:HD21	1.91	0.52
8:Gq:99:MET:HB3	8:Gq:114:LEU:HD21	1.91	0.52
11:Lb:65:LEU:HD21	11:Lb:119:LEU:HB2	1.91	0.52
13:Pi:385:GLU:HG2	13:Pj:304:VAL:HG22	1.92	0.52
1:Ao:47:GLN:HG3	2:Bd:68:GLN:HB3	1.91	0.52
1:Ar:180:ILE:HD11	2:Bv:135:LEU:HD13	1.92	0.52
1:At:229:GLU:HB2	1:Au:9:LYS:HE3	1.92	0.52
2:Bc:19:MET:HE1	2:Bc:222:GLN:HA	1.92	0.52
4:Cj:245:GLN:HG3	4:Ck:200:ASN:HD21	1.74	0.52
4:Cq:184:LEU:HD12	4:Cq:188:ASN:HB2	1.89	0.52
4:Cr:245:GLN:HG3	4:Cs:200:ASN:HD21	1.74	0.52
5:Cx:148:ASP:HB3	5:Dw:153:VAL:HG21	1.91	0.52
5:Da:21:ILE:HG23	5:Da:197:LEU:HD11	1.92	0.52
5:Dd:21:ILE:HG23	5:Dd:197:LEU:HD11	1.91	0.52
5:Dj:21:ILE:HG23	5:Dj:197:LEU:HD11	1.92	0.52
5:Dl:87:ALA:HB2	5:Dl:101:ILE:HG22	1.91	0.52
6:Dy:317:LYS:HG2	6:Dy:345:THR:HB	1.92	0.52
6:Eu:342:ILE:HG21	6:Eu:367:ILE:HD11	1.92	0.52
7:Fc:223:THR:HG22	7:Fc:285:VAL:HG22	1.92	0.52
8:Ga:99:MET:HB3	8:Ga:114:LEU:HD21	1.92	0.52
10:Je:259:GLU:HG3	10:Je:266:HIS:HD2	1.75	0.52
12:Mv:104:ILE:HG23	12:Mv:114:VAL:HG11	1.90	0.52
13:Oo:322:TYR:HB3	13:Oo:373:THR:HB	1.91	0.52
1:Ab:36:LYS:HG3	1:Ab:225:VAL:HG23	1.92	0.52
1:Ad:91:ASN:HA	3:Bi:48:THR:HG22	1.91	0.52
1:Ae:108:PRO:HG2	1:Al:154:ASN:HD21	1.74	0.52
3:Bt:318:GLY:HA3	3:Bt:335:TYR:HB3	1.91	0.52
4:By:245:GLN:HG3	4:Bz:200:ASN:HD21	1.74	0.52
4:Cp:245:GLN:HG3	4:Cq:200:ASN:HD21	1.74	0.52
4:Cs:245:GLN:HG3	4:Ct:200:ASN:HD21	1.74	0.52
4:Cu:245:GLN:HG3	4:Cv:200:ASN:HD21	1.74	0.52
4:Cw:113:GLU:HB2	4:Cw:172:MET:HB3	1.92	0.52
5:Cz:153:VAL:HG21	5:Da:148:ASP:HB3	1.91	0.52
5:Db:21:ILE:HG23	5:Db:197:LEU:HD11	1.92	0.52
5:De:87:ALA:HB2	5:De:101:ILE:HG22	1.91	0.52
5:Dh:21:ILE:HG23	5:Dh:197:LEU:HD11	1.92	0.52
5:Dk:21:ILE:HG23	5:Dk:197:LEU:HD11	1.92	0.52
6:Eu:358:VAL:HG12	6:Eu:360:GLN:H	1.75	0.52
8:Gc:99:MET:HB3	8:Gc:114:LEU:HD21	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Jp:272:ARG:HH11	10:Jq:272:ARG:HD3	1.75	0.52
11:Lu:78:ALA:HB3	11:Lv:91:ALA:HB3	1.91	0.52
1:Aj:55:GLN:HB3	1:Aj:61:ARG:HG2	1.91	0.52
1:Aw:180:ILE:HG21	1:Ax:124:ASP:HA	1.92	0.52
4:Bx:245:GLN:HG3	4:By:200:ASN:HD21	1.74	0.52
4:Cb:206:ILE:HG12	4:Cb:235:TYR:HD1	1.73	0.52
5:Dn:21:ILE:HG23	5:Dn:197:LEU:HD11	1.92	0.52
5:Dq:21:ILE:HG23	5:Dq:197:LEU:HD11	1.92	0.52
5:Du:317:LYS:HE2	5:Dv:324:LEU:HB2	1.91	0.52
6:Em:342:ILE:HG21	6:Em:367:ILE:HD11	1.91	0.52
6:Eq:342:ILE:HG21	6:Eq:367:ILE:HD11	1.92	0.52
6:Ev:241:ARG:HB3	9:Iw:143:THR:HG21	1.92	0.52
6:Ew:85:VAL:HG22	6:Ew:108:ILE:HG12	1.92	0.52
10:Jn:272:ARG:HH11	10:Jo:272:ARG:HD3	1.75	0.52
13:Oj:294:GLN:HB2	13:Pq:434:THR:HG22	1.92	0.52
13:Ow:322:TYR:HB3	13:Ow:373:THR:HB	1.92	0.52
13:Pk:275:ARG:HH21	13:Pk:294:GLN:HE22	1.56	0.52
13:Pn:274:LEU:HD22	13:Pn:295:VAL:HG11	1.92	0.52
13:Po:397:VAL:HB	13:Po:445:LEU:HG	1.92	0.52
1:Ab:132:GLY:HA2	3:Bf:61:ALA:HB1	1.92	0.52
1:Ag:99:GLY:HA2	3:Be:44:THR:H	1.75	0.52
1:Ar:96:MET:HG3	1:Ar:221:GLU:HB2	1.92	0.52
3:Bo:54:PRO:HD3	3:Bq:14:MET:HE1	1.91	0.52
4:Ca:245:GLN:HG3	4:Cb:200:ASN:HD21	1.74	0.52
4:Cq:245:GLN:HG3	4:Cr:200:ASN:HD21	1.74	0.52
5:Cx:153:VAL:HG21	5:Cy:148:ASP:HB3	1.92	0.52
5:Dw:224:ARG:HH21	6:En:368:GLN:HB2	1.75	0.52
6:Dy:363:LEU:HD13	7:Fr:101:ALA:HB3	1.92	0.52
6:Dz:201:ASP:HB3	6:Dz:221:ALA:HB3	1.92	0.52
8:Gm:99:MET:HB3	8:Gm:114:LEU:HD21	1.91	0.52
10:Jk:259:GLU:HG3	10:Jk:266:HIS:HD2	1.75	0.52
10:Jr:272:ARG:HH11	10:Js:272:ARG:HD3	1.75	0.52
13:Oj:298:GLU:HB2	13:Oj:394:ARG:HB3	1.91	0.52
1:Av:152:ILE:HB	1:Av:217:GLN:HE21	1.75	0.52
2:Bd:21:LEU:HD23	2:Bd:39:ALA:HB2	1.91	0.52
5:Dh:87:ALA:HB2	5:Dh:101:ILE:HG22	1.92	0.52
5:Dp:153:VAL:HG21	5:Dq:148:ASP:HB3	1.92	0.52
5:Dt:21:ILE:HG23	5:Dt:197:LEU:HD11	1.92	0.52
5:Du:21:ILE:HG23	5:Du:197:LEU:HD11	1.92	0.52
6:Ef:201:ASP:HB3	6:Ef:221:ALA:HB3	1.92	0.52
6:Ei:361:PRO:HB2	7:Fb:148:ARG:HD2	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ew:201:ASP:HB3	6:Ew:221:ALA:HB3	1.92	0.52
8:Gn:116:ARG:HD3	8:Gn:149:GLN:HE22	1.75	0.52
11:Jx:78:ALA:HB3	11:Jy:91:ALA:HB3	1.91	0.52
12:Mr:104:ILE:HG23	12:Mr:114:VAL:HG11	1.90	0.52
1:As:177:VAL:HG22	1:As:204:GLU:HG2	1.92	0.52
3:Bu:318:GLY:HA3	3:Bu:335:TYR:HB3	1.91	0.52
4:Ci:184:LEU:HD12	4:Ci:188:ASN:HB2	1.91	0.52
4:Cm:34:THR:HG21	6:Ec:247:PRO:HB2	1.92	0.52
4:Cp:184:LEU:HD12	4:Cp:188:ASN:HB2	1.91	0.52
5:Dc:224:ARG:HH21	6:Et:368:GLN:HB2	1.74	0.52
5:De:85:VAL:HG22	5:De:103:VAL:HG22	1.92	0.52
5:Dp:21:ILE:HG23	5:Dp:197:LEU:HD11	1.92	0.52
5:Dr:317:LYS:HE2	5:Ds:324:LEU:HB2	1.92	0.52
7:Fi:223:THR:HG22	7:Fi:285:VAL:HG22	1.92	0.52
7:Fn:184:ILE:HG12	7:Fn:286:VAL:HG22	1.92	0.52
10:Ja:259:GLU:HG3	10:Ja:266:HIS:HD2	1.75	0.52
13:Oj:385:GLU:HG2	13:Ok:304:VAL:HG13	1.92	0.52
13:Ph:431:LEU:HB3	13:Ph:445:LEU:HD11	1.92	0.52
1:Af:52:PRO:HB2	1:Al:196:THR:HG21	1.92	0.52
1:Ai:129:VAL:HG12	1:Ai:136:ARG:HA	1.91	0.52
1:Ak:83:ASN:HD21	1:Ak:99:GLY:H	1.58	0.52
1:Ak:137:LEU:HG	1:Ak:139:PRO:HD2	1.90	0.52
5:Cz:21:ILE:HG23	5:Cz:197:LEU:HD11	1.92	0.52
5:Dk:85:VAL:HG22	5:Dk:103:VAL:HG22	1.92	0.52
6:Ea:361:PRO:HB2	7:Ft:148:ARG:HD2	1.92	0.52
6:Eq:153:ILE:HG21	6:Eq:195:MET:HE1	1.92	0.52
10:Jl:272:ARG:HH11	10:Jm:272:ARG:HD3	1.75	0.52
13:Pg:432:ILE:HD12	13:Pg:437:TYR:HB2	1.92	0.52
13:Ph:438:SER:HB3	13:Pi:394:ARG:HH12	1.75	0.52
1:At:138:GLN:HG3	1:At:139:PRO:HD3	1.92	0.51
4:Ch:245:GLN:HG3	4:Ci:200:ASN:HD21	1.74	0.51
4:Cn:245:GLN:HG3	4:Co:200:ASN:HD21	1.74	0.51
5:Cy:224:ARG:HH21	6:Ep:368:GLN:HB2	1.75	0.51
5:Db:87:ALA:HB2	5:Db:101:ILE:HG22	1.92	0.51
5:Dq:317:LYS:HE2	5:Dr:324:LEU:HB2	1.92	0.51
5:Dt:87:ALA:HB2	5:Dt:101:ILE:HG22	1.91	0.51
6:Dy:126:ILE:HB	6:Dy:169:THR:HG22	1.92	0.51
6:Eo:223:GLU:HG2	6:Eo:239:THR:HG22	1.92	0.51
8:Gq:154:LEU:HB3	8:Gq:164:TYR:HE1	1.75	0.51
10:Iy:259:GLU:HG3	10:Iy:266:HIS:HD2	1.75	0.51
13:Pj:326:ASP:HB3	13:Pj:369:HIS:HB3	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ad:182:PRO:HG2	3:Bj:47:PHE:HE2	1.76	0.51
1:Af:22:ILE:HG21	1:Af:234:MET:HB2	1.92	0.51
1:Ah:48:ASN:HD21	1:Ah:51:GLN:HA	1.75	0.51
5:Cy:153:VAL:HG21	5:Cz:148:ASP:HB3	1.91	0.51
5:Db:268:LYS:HB2	5:Db:353:ALA:HB1	1.93	0.51
5:Df:85:VAL:HG22	5:Df:103:VAL:HG22	1.92	0.51
5:Dj:85:VAL:HG22	5:Dj:103:VAL:HG22	1.93	0.51
5:Dl:21:ILE:HG23	5:Dl:197:LEU:HD11	1.92	0.51
5:Dp:317:LYS:HE2	5:Dq:324:LEU:HB2	1.92	0.51
5:Dq:268:LYS:HB2	5:Dq:353:ALA:HB1	1.93	0.51
6:Dy:79:LEU:HD23	9:Gy:134:GLN:HB2	1.92	0.51
6:Ei:35:VAL:HG23	6:Ei:245:ARG:HG3	1.92	0.51
6:Ev:83:HIS:H	6:Ev:86:ARG:HH12	1.58	0.51
10:Ji:259:GLU:HG3	10:Ji:266:HIS:HD2	1.75	0.51
10:Jt:272:ARG:HH11	10:Ju:272:ARG:HD3	1.75	0.51
13:Pa:320:SER:HB3	13:Pa:375:ASN:HB3	1.91	0.51
13:Pb:431:LEU:HB3	13:Pb:445:LEU:HD11	1.92	0.51
13:Pm:306:GLN:HB3	13:Pm:385:GLU:HB3	1.93	0.51
1:An:194:LEU:HD13	1:Ay:163:ARG:HH22	1.74	0.51
4:Cb:245:GLN:HG3	4:Cc:200:ASN:HD21	1.75	0.51
4:Cd:245:GLN:HG3	4:Ce:200:ASN:HD21	1.74	0.51
5:Da:85:VAL:HG22	5:Da:103:VAL:HG22	1.92	0.51
5:Dj:87:ALA:HB2	5:Dj:101:ILE:HG22	1.92	0.51
5:Du:268:LYS:HB2	5:Du:353:ALA:HB1	1.93	0.51
6:Dz:88:ILE:HG12	6:Dz:106:ILE:HG23	1.92	0.51
6:Ea:201:ASP:HB3	6:Ea:221:ALA:HB3	1.93	0.51
6:Eg:342:ILE:HG21	6:Eg:367:ILE:HD11	1.93	0.51
8:Ga:116:ARG:HA	8:Ga:149:GLN:HE22	1.74	0.51
8:Gg:99:MET:HB3	8:Gg:114:LEU:HD21	1.91	0.51
8:Gk:99:MET:HB3	8:Gk:114:LEU:HD21	1.91	0.51
11:Ke:79:GLU:H	11:Ke:86:GLY:HA3	1.76	0.51
13:Or:298:GLU:HB2	13:Or:394:ARG:HB3	1.93	0.51
13:Os:274:LEU:HD21	13:Os:435:VAL:HG13	1.92	0.51
13:Pb:309:LYS:HB3	13:Pb:382:ILE:HG12	1.92	0.51
13:Pp:324:LEU:HG	13:Pq:371:GLU:HG2	1.92	0.51
1:Ai:228:THR:HG23	3:Bm:430:ILE:HG12	1.92	0.51
1:Au:130:THR:HG23	1:Au:134:GLY:H	1.74	0.51
3:Bq:91:VAL:HB	3:Bq:123:GLU:HB3	1.92	0.51
4:Ck:245:GLN:HG3	4:Cl:200:ASN:HD21	1.74	0.51
5:Cx:268:LYS:HB2	5:Cx:353:ALA:HB1	1.93	0.51
5:Di:85:VAL:HG22	5:Di:103:VAL:HG22	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dj:317:LYS:HE2	5:Dk:324:LEU:HB2	1.92	0.51
5:Dp:105:SER:HB2	5:Dp:112:LEU:HD11	1.92	0.51
7:Fe:223:THR:HG22	7:Fe:285:VAL:HG22	1.92	0.51
13:Pg:270:GLN:HG3	13:Pg:299:LEU:HD11	1.92	0.51
1:Aa:165:GLN:HG3	4:Cp:159:LYS:HE3	1.92	0.51
1:Ah:1:MET:HG2	1:Ah:255:MET:HE2	1.92	0.51
1:Ax:35:LYS:HD3	1:Ax:81:HIS:HA	1.92	0.51
3:Bi:357:LEU:HB3	3:Bi:365:TRP:HB3	1.92	0.51
5:Cz:85:VAL:HG22	5:Cz:103:VAL:HG22	1.92	0.51
5:Dc:317:LYS:HE2	5:Dd:324:LEU:HB2	1.92	0.51
5:Dd:85:VAL:HG22	5:Dd:103:VAL:HG22	1.93	0.51
5:Dk:87:ALA:HB2	5:Dk:101:ILE:HG22	1.92	0.51
5:Dm:268:LYS:HB2	5:Dm:353:ALA:HB1	1.93	0.51
5:Dn:268:LYS:HB2	5:Dn:353:ALA:HB1	1.93	0.51
5:Dq:87:ALA:HB2	5:Dq:101:ILE:HG22	1.91	0.51
5:Ds:87:ALA:HB2	5:Ds:101:ILE:HG22	1.92	0.51
6:Eb:109:TYR:CE1	11:Jx:73:ARG:HD3	2.45	0.51
6:Ew:91:GLU:HG2	6:Ew:92:GLU:HG3	1.93	0.51
7:Ey:223:THR:HG22	7:Ey:285:VAL:HG22	1.93	0.51
8:Gm:116:ARG:HA	8:Gm:149:GLN:HE22	1.74	0.51
10:Jg:259:GLU:HG3	10:Jg:266:HIS:HD2	1.75	0.51
10:Jw:259:GLU:HG3	10:Jw:266:HIS:HD2	1.75	0.51
11:Lj:79:GLU:H	11:Lj:86:GLY:HA3	1.75	0.51
11:Lv:77:ARG:HH12	11:Lw:73:ARG:HH21	1.57	0.51
13:Pf:297:ILE:HG13	13:Pf:395:GLN:HG2	1.92	0.51
13:Pp:295:VAL:HG12	13:Pp:397:VAL:HG22	1.93	0.51
1:Ab:73:LYS:HG3	1:Ab:75:VAL:H	1.76	0.51
1:Af:79:LYS:HE2	1:Af:187:PRO:HD3	1.92	0.51
1:Ar:106:LEU:HB3	1:Ar:136:ARG:HB3	1.93	0.51
1:Ax:1:MET:HE3	1:Ax:254:MET:HG3	1.93	0.51
4:Cg:245:GLN:HG3	4:Ch:200:ASN:HD21	1.76	0.51
5:Da:268:LYS:HB2	5:Da:353:ALA:HB1	1.93	0.51
5:Da:317:LYS:HE2	5:Db:324:LEU:HB2	1.92	0.51
5:Db:317:LYS:HE2	5:Dc:324:LEU:HB2	1.92	0.51
5:Dc:85:VAL:HG22	5:Dc:103:VAL:HG22	1.92	0.51
5:Dk:317:LYS:HE2	5:Dl:324:LEU:HB2	1.92	0.51
5:Dl:317:LYS:HE2	5:Dm:324:LEU:HB2	1.92	0.51
5:Do:153:VAL:HG21	5:Dp:148:ASP:HB3	1.92	0.51
5:Dr:87:ALA:HB2	5:Dr:101:ILE:HG22	1.92	0.51
5:Ds:317:LYS:HE2	5:Dt:324:LEU:HB2	1.93	0.51
5:Dt:153:VAL:HG21	5:Du:148:ASP:HB3	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Du:87:ALA:HB2	5:Du:101:ILE:HG22	1.91	0.51
10:Jj:272:ARG:HH11	10:Jk:272:ARG:HD3	1.75	0.51
10:Jo:259:GLU:HG3	10:Jo:266:HIS:HD2	1.75	0.51
13:On:306:GLN:HB2	13:On:385:GLU:HB3	1.92	0.51
13:Oo:274:LEU:HD11	13:Oo:435:VAL:HG13	1.93	0.51
13:Or:304:VAL:HB	13:Or:387:LYS:HB2	1.93	0.51
13:Oz:432:ILE:HG23	13:Oz:437:TYR:HB3	1.91	0.51
1:Ad:95:MET:HE3	1:Ad:217:GLN:HE22	1.76	0.51
1:As:32:ILE:HG21	1:As:119:GLN:HE22	1.75	0.51
1:Aw:150:ILE:HG12	1:Aw:160:VAL:HG12	1.92	0.51
5:Cz:87:ALA:HB2	5:Cz:101:ILE:HG22	1.92	0.51
5:Dl:85:VAL:HG22	5:Dl:103:VAL:HG22	1.92	0.51
5:Do:317:LYS:HE2	5:Dp:324:LEU:HB2	1.92	0.51
5:Dt:268:LYS:HB2	5:Dt:353:ALA:HB1	1.93	0.51
5:Dt:317:LYS:HE2	5:Du:324:LEU:HB2	1.92	0.51
5:Dv:268:LYS:HB2	5:Dv:353:ALA:HB1	1.93	0.51
5:Dw:268:LYS:HB2	5:Dw:353:ALA:HB1	1.93	0.51
6:El:326:PHE:HD2	6:El:328:ASP:H	1.58	0.51
6:Eo:201:ASP:HB3	6:Eo:221:ALA:HB3	1.92	0.51
6:Ew:342:ILE:HG21	6:Ew:367:ILE:HD11	1.92	0.51
13:Oq:432:ILE:HG23	13:Oq:437:TYR:HB3	1.92	0.51
1:Ac:165:GLN:HG3	1:Ac:167:ASP:H	1.74	0.51
1:Af:162:VAL:HB	1:Af:165:GLN:HB2	1.91	0.51
1:At:185:LEU:HB3	1:At:193:TYR:HB3	1.92	0.51
1:Aw:152:ILE:HD11	1:Aw:156:GLY:HA2	1.93	0.51
3:Br:32:LYS:HB2	3:Br:65:GLN:HE21	1.76	0.51
3:Bt:348:LEU:HD22	3:Bt:384:PHE:HD2	1.74	0.51
5:Cx:224:ARG:HH21	6:Eo:368:GLN:HB2	1.75	0.51
5:Cy:85:VAL:HG22	5:Cy:103:VAL:HG22	1.92	0.51
5:Cy:268:LYS:HB2	5:Cy:353:ALA:HB1	1.93	0.51
5:De:268:LYS:HB2	5:De:353:ALA:HB1	1.93	0.51
5:Ds:268:LYS:HB2	5:Ds:353:ALA:HB1	1.93	0.51
5:Du:153:VAL:HG21	5:Dv:148:ASP:HB3	1.93	0.51
6:Eb:262:TRP:HA	6:Eb:267:GLY:HA3	1.92	0.51
6:Ei:92:GLU:HB2	6:Ei:103:ARG:HB3	1.91	0.51
10:Iz:272:ARG:HH11	10:Ja:272:ARG:HD3	1.75	0.51
13:Oy:385:GLU:HG2	13:Oz:304:VAL:HB	1.91	0.51
13:Pf:274:LEU:HD21	13:Pf:435:VAL:HG13	1.93	0.51
13:Pj:309:LYS:HG2	13:Pj:311:PHE:HE1	1.76	0.51
13:Pp:308:ARG:HB2	13:Pp:383:SER:HB3	1.92	0.51
3:Bg:325:PHE:HB2	3:Bg:389:ASN:HB3	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bw:138:VAL:HG13	2:Bw:148:VAL:HG12	1.93	0.51
5:Cx:87:ALA:HB2	5:Cx:101:ILE:HG22	1.91	0.51
5:Cz:268:LYS:HB2	5:Cz:353:ALA:HB1	1.93	0.51
5:Da:87:ALA:HB2	5:Da:101:ILE:HG22	1.92	0.51
5:Da:153:VAL:HG21	5:Db:148:ASP:HB3	1.92	0.51
5:Dd:87:ALA:HB2	5:Dd:101:ILE:HG22	1.93	0.51
5:Dd:317:LYS:HE2	5:De:324:LEU:HB2	1.92	0.51
5:De:317:LYS:HE2	5:Df:324:LEU:HB2	1.93	0.51
5:Dl:268:LYS:HB2	5:Dl:353:ALA:HB1	1.93	0.51
5:Dm:21:ILE:HG23	5:Dm:197:LEU:HD11	1.93	0.51
5:Dn:317:LYS:HE2	5:Do:324:LEU:HB2	1.92	0.51
5:Do:224:ARG:HH21	6:Ef:368:GLN:HB2	1.76	0.51
5:Dp:268:LYS:HB2	5:Dp:353:ALA:HB1	1.93	0.51
5:Dr:268:LYS:HB2	5:Dr:353:ALA:HB1	1.93	0.51
5:Dw:87:ALA:HB2	5:Dw:101:ILE:HG22	1.91	0.51
6:Dz:209:LYS:HD2	6:Dz:212:GLN:HB2	1.91	0.51
6:Et:241:ARG:HB3	9:Iu:143:THR:HG21	1.93	0.51
7:Fa:223:THR:HG22	7:Fa:285:VAL:HG22	1.93	0.51
7:Fl:184:ILE:HG12	7:Fl:286:VAL:HG22	1.93	0.51
7:Fs:223:THR:HG22	7:Fs:285:VAL:HG22	1.92	0.51
7:Fv:111:LYS:HD2	8:Gt:197:PRO:HD3	1.93	0.51
8:Fx:116:ARG:HD3	8:Fx:149:GLN:HE22	1.75	0.51
11:Kh:79:GLU:H	11:Kh:86:GLY:HA3	1.76	0.51
11:Kq:104:VAL:HG23	11:Kq:105:ARG:HG2	1.93	0.51
1:Al:137:LEU:HG	1:Al:139:PRO:HD2	1.92	0.51
3:Bo:33:GLU:HG2	3:Bo:396:ASN:HD21	1.76	0.51
5:Db:85:VAL:HG22	5:Db:103:VAL:HG22	1.92	0.51
5:Dg:317:LYS:HE2	5:Dh:324:LEU:HB2	1.92	0.51
5:Dh:85:VAL:HG22	5:Dh:103:VAL:HG22	1.92	0.51
5:Dk:224:ARG:HH21	6:Eb:368:GLN:HB2	1.76	0.51
5:Dk:268:LYS:HB2	5:Dk:353:ALA:HB1	1.93	0.51
5:Do:21:ILE:HG23	5:Do:197:LEU:HD11	1.93	0.51
5:Dp:85:VAL:HG22	5:Dp:103:VAL:HG22	1.92	0.51
5:Dv:224:ARG:HH21	6:Em:368:GLN:HB2	1.76	0.51
6:Dy:293:GLN:HB2	6:Dy:369:ILE:HG23	1.93	0.51
7:Fh:184:ILE:HG12	7:Fh:286:VAL:HG22	1.92	0.51
10:Js:259:GLU:HG3	10:Js:266:HIS:HD2	1.75	0.51
13:Ow:397:VAL:HG21	13:Ow:435:VAL:HG11	1.93	0.51
13:Pj:295:VAL:HG12	13:Pj:397:VAL:HG22	1.92	0.51
1:Ab:50:ASN:HB2	1:Ab:66:LEU:H	1.76	0.50
1:Af:129:VAL:HG12	1:Af:136:ARG:HA	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:148:ILE:HB	1:Ak:161:ARG:HB2	1.91	0.50
2:Bw:105:LEU:HD13	2:Bw:113:LEU:HD21	1.93	0.50
5:Dc:268:LYS:HB2	5:Dc:353:ALA:HB1	1.93	0.50
5:Dh:153:VAL:HG21	5:Di:148:ASP:HB3	1.93	0.50
5:Dj:268:LYS:HB2	5:Dj:353:ALA:HB1	1.93	0.50
5:Dn:85:VAL:HG22	5:Dn:103:VAL:HG22	1.93	0.50
5:Dr:105:SER:HB2	5:Dr:112:LEU:HD11	1.93	0.50
6:Em:145:VAL:HA	6:Em:256:THR:HG21	1.92	0.50
6:Ep:292:PRO:HB3	6:Ep:306:LEU:HD13	1.93	0.50
6:Eq:255:ASP:HB3	6:Eq:258:SER:HB3	1.93	0.50
7:Fv:184:ILE:HG12	7:Fv:286:VAL:HG22	1.92	0.50
8:Gr:68:ARG:HD2	10:Iz:239:LEU:HB2	1.92	0.50
10:Jm:259:GLU:HG3	10:Jm:266:HIS:HD2	1.75	0.50
11:Jx:71:GLY:HA2	11:Jy:99:ARG:HG2	1.92	0.50
11:Lv:79:GLU:H	11:Lv:86:GLY:HA3	1.76	0.50
1:Aa:89:THR:HG22	1:Aa:91:ASN:H	1.75	0.50
1:Al:198:ALA:HA	1:Aw:124:ASP:HB3	1.93	0.50
3:Bh:426:LEU:HD11	3:Br:410:GLN:HA	1.93	0.50
4:Bx:200:ASN:HD21	4:Cw:245:GLN:HG3	1.76	0.50
5:Dg:85:VAL:HG22	5:Dg:103:VAL:HG22	1.93	0.50
5:Dh:268:LYS:HB2	5:Dh:353:ALA:HB1	1.93	0.50
5:Di:21:ILE:HG23	5:Di:197:LEU:HD11	1.93	0.50
5:Dv:153:VAL:HG21	5:Dw:148:ASP:HB3	1.93	0.50
7:Fg:223:THR:HG22	7:Fg:285:VAL:HG22	1.93	0.50
7:Ft:184:ILE:HG12	7:Ft:286:VAL:HG22	1.91	0.50
1:Ab:154:ASN:HD21	3:Br:93:LYS:HE3	1.76	0.50
1:Ap:254:MET:HE3	2:Bw:222:GLN:HE21	1.77	0.50
3:Br:13:GLN:HA	3:Br:16:LEU:HD12	1.93	0.50
2:Bv:234:THR:HA	2:Bv:237:GLU:HG2	1.93	0.50
5:Cz:317:LYS:HE2	5:Da:324:LEU:HB2	1.92	0.50
5:Dd:268:LYS:HB2	5:Dd:353:ALA:HB1	1.93	0.50
5:Df:317:LYS:HE2	5:Dg:324:LEU:HB2	1.92	0.50
5:Dr:85:VAL:HG22	5:Dr:103:VAL:HG22	1.92	0.50
5:Ds:85:VAL:HG22	5:Ds:103:VAL:HG22	1.92	0.50
5:Dv:85:VAL:HG22	5:Dv:103:VAL:HG22	1.92	0.50
6:Eb:109:TYR:CD1	6:Eb:109:TYR:CB	2.81	0.50
6:Ee:201:ASP:HB3	6:Ee:221:ALA:HB3	1.94	0.50
6:Eo:241:ARG:HB3	9:Ip:143:THR:HG21	1.92	0.50
7:Ex:111:LYS:HD2	8:Gv:197:PRO:HD3	1.94	0.50
7:Fr:111:LYS:HD2	8:Gp:197:PRO:HD3	1.93	0.50
7:Fu:223:THR:HG22	7:Fu:285:VAL:HG22	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Gi:154:LEU:HB3	8:Gi:164:TYR:HE1	1.76	0.50
10:Jh:272:ARG:HH11	10:Ji:272:ARG:HD3	1.75	0.50
11:Kd:79:GLU:H	11:Kd:86:GLY:HA3	1.76	0.50
11:Lp:77:ARG:HH12	11:Lq:73:ARG:HH12	1.60	0.50
11:Lt:79:GLU:H	11:Lt:86:GLY:HA3	1.76	0.50
13:Ph:274:LEU:HD11	13:Ph:435:VAL:HG13	1.93	0.50
13:Po:283:ILE:HG13	13:Po:284:PRO:HD3	1.94	0.50
13:Pq:281:VAL:HG11	13:Pq:434:THR:HG21	1.93	0.50
13:Pq:308:ARG:HB2	13:Pq:383:SER:HB3	1.93	0.50
1:Af:26:LEU:HD11	1:Af:227:VAL:HG13	1.93	0.50
1:As:89:THR:HG22	1:As:91:ASN:H	1.77	0.50
1:As:93:LEU:HD13	1:As:121:THR:HA	1.94	0.50
3:Bj:415:ALA:HB2	3:Bl:399:MET:HE1	1.94	0.50
5:Db:153:VAL:HG21	5:Dc:148:ASP:HB3	1.92	0.50
5:Df:268:LYS:HB2	5:Df:353:ALA:HB1	1.93	0.50
5:Dh:317:LYS:HE2	5:Di:324:LEU:HB2	1.92	0.50
5:Dw:85:VAL:HG22	5:Dw:103:VAL:HG22	1.92	0.50
6:Ee:361:PRO:HB2	7:Ex:148:ARG:HD2	1.93	0.50
6:Ej:56:PHE:HD1	9:Ij:139:LYS:HE2	1.77	0.50
6:Ep:326:PHE:HD2	6:Ep:328:ASP:H	1.59	0.50
7:Fw:223:THR:HG22	7:Fw:285:VAL:HG22	1.93	0.50
11:Kl:79:GLU:H	11:Kl:86:GLY:HA3	1.76	0.50
11:Ln:104:VAL:HG23	11:Ln:105:ARG:HG2	1.94	0.50
13:Or:432:ILE:HG23	13:Or:437:TYR:HB3	1.93	0.50
1:Ac:141:ILE:HD13	1:Ac:158:VAL:HG21	1.94	0.50
1:Ak:129:VAL:HG12	1:Ak:136:ARG:HA	1.92	0.50
3:Bo:32:LYS:HB2	3:Bo:65:GLN:HE21	1.76	0.50
4:Ce:129:ASN:HB2	4:Ce:156:ASN:HB3	1.94	0.50
5:Dd:153:VAL:HG21	5:De:148:ASP:HB3	1.92	0.50
5:Dg:21:ILE:HG23	5:Dg:197:LEU:HD11	1.93	0.50
5:Dm:85:VAL:HG22	5:Dm:103:VAL:HG22	1.92	0.50
5:Dm:105:SER:HB2	5:Dm:112:LEU:HD11	1.94	0.50
5:Do:268:LYS:HB2	5:Do:353:ALA:HB1	1.93	0.50
5:Dt:85:VAL:HG22	5:Dt:103:VAL:HG22	1.92	0.50
7:Fj:184:ILE:HG12	7:Fj:286:VAL:HG22	1.94	0.50
10:Ix:272:ARG:HH11	10:Iy:272:ARG:HD3	1.75	0.50
1:Aa:91:ASN:HD22	1:Aa:93:LEU:H	1.59	0.50
1:Af:177:VAL:HG22	1:Af:204:GLU:HG2	1.93	0.50
1:Ak:63:PRO:HA	1:Aq:198:ALA:HB1	1.94	0.50
1:Al:45:PHE:HE2	1:Av:83:ASN:HD22	1.59	0.50
5:Cx:317:LYS:HE2	5:Cy:324:LEU:HB2	1.92	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cy:87:ALA:HB2	5:Cy:101:ILE:HG22	1.92	0.50
5:Di:105:SER:HB2	5:Di:112:LEU:HD11	1.93	0.50
5:Dk:105:SER:HB2	5:Dk:112:LEU:HD11	1.93	0.50
5:Dl:105:SER:HB2	5:Dl:112:LEU:HD11	1.94	0.50
5:Dm:87:ALA:HB2	5:Dm:101:ILE:HG22	1.92	0.50
5:Do:85:VAL:HG22	5:Do:103:VAL:HG22	1.93	0.50
5:Do:87:ALA:HB2	5:Do:101:ILE:HG22	1.92	0.50
5:Dq:153:VAL:HG21	5:Dr:148:ASP:HB3	1.94	0.50
5:Ds:105:SER:HB2	5:Ds:112:LEU:HD11	1.93	0.50
6:Ec:361:PRO:HB2	7:Fv:148:ARG:HD2	1.93	0.50
6:Ee:342:ILE:HG21	6:Ee:367:ILE:HD11	1.94	0.50
6:En:209:LYS:HD2	6:En:212:GLN:HB2	1.92	0.50
10:Jb:272:ARG:HH11	10:Jc:272:ARG:HD3	1.75	0.50
10:Jq:259:GLU:HG3	10:Jq:266:HIS:HD2	1.77	0.50
11:Kx:79:GLU:H	11:Kx:86:GLY:HA3	1.76	0.50
12:Ml:87:GLN:HE21	12:Mm:94:TRP:HB3	1.77	0.50
1:Ab:26:LEU:HD22	3:Bf:415:ALA:HB1	1.93	0.50
1:Ae:228:THR:HG21	3:Bt:413:PHE:HZ	1.77	0.50
1:As:257:PHE:HA	1:As:260:GLN:HG2	1.94	0.50
3:Bj:103:LEU:HD11	3:Bj:374:LYS:HE3	1.93	0.50
3:Bs:414:GLN:HE22	3:Bu:428:GLN:HE22	1.58	0.50
2:Bw:83:GLN:HB2	2:Bw:198:LYS:HG3	1.92	0.50
5:Cz:105:SER:HB2	5:Cz:112:LEU:HD11	1.93	0.50
5:Dc:153:VAL:HG21	5:Dd:148:ASP:HB3	1.93	0.50
5:Dg:268:LYS:HB2	5:Dg:353:ALA:HB1	1.93	0.50
6:En:80:PHE:HA	9:Hn:136:VAL:HG21	1.93	0.50
10:Jc:259:GLU:HG3	10:Jc:266:HIS:HD2	1.77	0.50
10:Jv:272:ARG:HH11	10:Jw:272:ARG:HD3	1.75	0.50
12:Od:87:GLN:HE21	12:Oe:94:TRP:HB3	1.77	0.50
13:Ou:295:VAL:HG12	13:Ou:397:VAL:HG22	1.94	0.50
13:Pa:301:PHE:HE2	13:Pb:260:ARG:HG2	1.77	0.50
1:Ax:9:LYS:HE2	1:Az:229:GLU:HG2	1.94	0.50
2:Ba:29:VAL:HG23	2:Ba:209:VAL:HB	1.94	0.50
3:Bt:73:ILE:HG23	3:Bt:392:LEU:HB2	1.94	0.50
5:Cy:105:SER:HB2	5:Cy:112:LEU:HD11	1.93	0.50
5:Cy:317:LYS:HE2	5:Cz:324:LEU:HB2	1.92	0.50
5:Dc:21:ILE:HG23	5:Dc:197:LEU:HD11	1.93	0.50
5:Di:317:LYS:HE2	5:Dj:324:LEU:HB2	1.92	0.50
5:Dm:317:LYS:HE2	5:Dn:324:LEU:HB2	1.93	0.50
5:Dn:87:ALA:HB2	5:Dn:101:ILE:HG22	1.92	0.50
5:Du:85:VAL:HG22	5:Du:103:VAL:HG22	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Et:239:THR:HG21	6:Eu:155:ARG:HD3	1.92	0.50
7:Fa:64:ALA:HB2	7:Fa:172:LEU:HD22	1.93	0.50
7:Ff:83:THR:HG22	7:Ff:111:LYS:HA	1.94	0.50
7:Fm:64:ALA:HB2	7:Fm:172:LEU:HD22	1.94	0.50
7:Fm:223:THR:HG22	7:Fm:285:VAL:HG22	1.93	0.50
7:Fr:83:THR:HG22	7:Fr:111:LYS:HA	1.94	0.50
8:Gt:68:ARG:HD2	10:Ix:239:LEU:HB2	1.94	0.50
10:Jf:272:ARG:HH11	10:Jg:272:ARG:HD3	1.75	0.50
11:Kf:104:VAL:HG23	11:Kf:105:ARG:HG2	1.94	0.50
12:Nj:87:GLN:HE21	12:Nk:94:TRP:HB3	1.77	0.50
13:Pi:397:VAL:HB	13:Pi:445:LEU:HD12	1.93	0.50
1:Aj:35:LYS:HD3	1:Aj:81:HIS:HA	1.94	0.50
1:Ar:141:ILE:HG21	1:Ar:171:LEU:HB3	1.93	0.50
5:De:21:ILE:HG23	5:De:197:LEU:HD11	1.94	0.50
5:Di:268:LYS:HB2	5:Di:353:ALA:HB1	1.93	0.50
5:Dv:87:ALA:HB2	5:Dv:101:ILE:HG22	1.92	0.50
6:Ev:292:PRO:HB3	6:Ev:306:LEU:HD13	1.94	0.50
7:Ey:249:PHE:HB3	7:Ey:254:LEU:HD23	1.94	0.50
7:Fb:111:LYS:HD2	8:Fz:197:PRO:HD3	1.94	0.50
7:Fc:64:ALA:HB2	7:Fc:172:LEU:HD22	1.92	0.50
8:Gd:116:ARG:HD3	8:Gd:149:GLN:HE22	1.77	0.50
11:Jy:79:GLU:H	11:Jy:86:GLY:HA3	1.77	0.50
11:Ko:79:GLU:H	11:Ko:86:GLY:HA3	1.77	0.50
12:Og:87:GLN:HE21	12:Oh:94:TRP:HB3	1.77	0.50
13:Oj:319:ARG:HB2	13:Oj:377:GLU:HB2	1.93	0.50
13:On:384:HIS:HB3	13:Oo:305:GLU:HB2	1.94	0.50
13:Oz:315:THR:HB	13:Pa:313:PRO:HG3	1.93	0.50
13:Pe:304:VAL:HB	13:Pe:387:LYS:HB2	1.93	0.50
1:Ai:102:PHE:HB3	1:Ai:114:TYR:HB3	1.94	0.49
5:Dj:105:SER:HB2	5:Dj:112:LEU:HD11	1.94	0.49
5:Dq:85:VAL:HG22	5:Dq:103:VAL:HG22	1.92	0.49
5:Dq:105:SER:HB2	5:Dq:112:LEU:HD11	1.94	0.49
5:Dv:317:LYS:HE2	5:Dw:324:LEU:HB2	1.92	0.49
6:Eu:92:GLU:HB2	6:Eu:103:ARG:HB2	1.93	0.49
7:Fb:184:ILE:HG12	7:Fb:286:VAL:HG22	1.93	0.49
7:Fg:217:ASP:HA	7:Fg:258:ARG:HD3	1.93	0.49
11:La:79:GLU:H	11:La:86:GLY:HA3	1.77	0.49
12:Nm:87:GLN:HE21	12:Nn:94:TRP:HB3	1.77	0.49
12:Nv:87:GLN:HE21	12:Nw:94:TRP:HB3	1.77	0.49
13:Or:306:GLN:HB3	13:Or:385:GLU:HB3	1.94	0.49
13:Pp:431:LEU:HB3	13:Pp:445:LEU:HD11	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aw:195:PRO:HB2	1:Az:166:GLN:HG3	1.93	0.49
3:Bf:357:LEU:HB3	3:Bf:365:TRP:HB3	1.93	0.49
3:Br:82:ARG:HG3	3:Br:393:GLU:HB3	1.92	0.49
3:Bs:325:PHE:HB2	3:Bs:389:ASN:HB3	1.94	0.49
6:Dy:255:ASP:HB3	6:Dy:258:SER:HB3	1.93	0.49
6:Eo:109:TYR:CD1	11:La:73:ARG:HD3	2.47	0.49
7:Ez:184:ILE:HG12	7:Ez:286:VAL:HG22	1.93	0.49
7:Fp:83:THR:HG22	7:Fp:111:LYS:HA	1.94	0.49
7:Fq:223:THR:HG22	7:Fq:285:VAL:HG22	1.93	0.49
11:Kg:78:ALA:HB3	11:Kh:91:ALA:HB3	1.93	0.49
11:Lf:79:GLU:H	11:Lf:86:GLY:HA3	1.77	0.49
11:Lf:104:VAL:HG23	11:Lf:105:ARG:HG2	1.94	0.49
12:Na:87:GLN:HE21	12:Nb:94:TRP:HB3	1.77	0.49
12:Ne:87:GLN:HE21	12:Nf:94:TRP:HB3	1.77	0.49
12:Ng:87:GLN:HE21	12:Nh:94:TRP:HB3	1.77	0.49
12:Oe:87:GLN:HE21	12:Of:94:TRP:HB3	1.77	0.49
13:Os:396:THR:HG22	13:Os:444:LEU:HB2	1.94	0.49
1:Aa:165:GLN:HG2	1:Aa:167:ASP:H	1.77	0.49
1:Ae:129:VAL:HG12	1:Ae:136:ARG:HA	1.93	0.49
1:Ap:185:LEU:HD23	1:Ap:199:SER:HB2	1.94	0.49
1:Av:22:ILE:HG21	1:Av:234:MET:HB2	1.94	0.49
2:Ba:219:ILE:HB	2:Ba:223:ARG:HH21	1.78	0.49
2:Bv:105:LEU:HD13	2:Bv:113:LEU:HD21	1.93	0.49
5:Cx:85:VAL:HG22	5:Cx:103:VAL:HG22	1.93	0.49
5:Cx:105:SER:HB2	5:Cx:112:LEU:HD11	1.94	0.49
5:Cx:324:LEU:HB2	5:Dw:317:LYS:HE2	1.93	0.49
5:De:153:VAL:HG21	5:Df:148:ASP:HB3	1.93	0.49
5:Dk:153:VAL:HG21	5:Dl:148:ASP:HB3	1.94	0.49
5:Dp:87:ALA:HB2	5:Dp:101:ILE:HG22	1.92	0.49
6:Eg:361:PRO:HB2	7:Ez:148:ARG:HD2	1.94	0.49
6:Ew:361:PRO:HB2	7:Fp:148:ARG:HD2	1.93	0.49
7:Fk:223:THR:HG22	7:Fk:285:VAL:HG22	1.93	0.49
11:Kn:104:VAL:HG23	11:Kn:105:ARG:HG2	1.94	0.49
11:Ld:104:VAL:HG23	11:Ld:105:ARG:HG2	1.94	0.49
11:Lj:104:VAL:HG23	11:Lj:105:ARG:HG2	1.95	0.49
12:Mf:87:GLN:HE21	12:Mg:94:TRP:HB3	1.78	0.49
12:Mi:87:GLN:HE21	12:Mj:94:TRP:HB3	1.78	0.49
12:Nb:87:GLN:HE21	12:Nc:94:TRP:HB3	1.78	0.49
12:Nh:87:GLN:HE21	12:Ni:94:TRP:HB3	1.77	0.49
1:Aj:176:THR:HG23	1:Aj:207:PRO:HG3	1.94	0.49
1:Aw:262:LEU:HD23	1:Ax:249:SER:HB2	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ft:111:LYS:HD2	8:Gr:197:PRO:HD3	1.94	0.49
8:Gh:116:ARG:HD3	8:Gh:149:GLN:HE22	1.77	0.49
10:Jd:272:ARG:HH11	10:Je:272:ARG:HD3	1.75	0.49
11:Lm:77:ARG:HH12	11:Ln:73:ARG:HH21	1.61	0.49
11:Mb:79:GLU:H	11:Mb:86:GLY:HA3	1.77	0.49
12:Md:87:GLN:HE21	12:Me:94:TRP:HB3	1.78	0.49
12:Mt:87:GLN:HE21	12:Mu:94:TRP:HB3	1.77	0.49
12:Nr:87:GLN:HE21	12:Ns:94:TRP:HB3	1.77	0.49
12:Nw:87:GLN:HE21	12:Nx:94:TRP:HB3	1.77	0.49
12:Oa:87:GLN:HE21	12:Ob:94:TRP:HB3	1.78	0.49
13:Oq:295:VAL:HG22	13:Oq:397:VAL:HG22	1.94	0.49
13:Os:282:LEU:HD21	13:Os:431:LEU:HD11	1.93	0.49
1:Ah:120:PHE:HB3	1:Ah:128:ILE:HD11	1.95	0.49
1:Am:22:ILE:HG21	1:Am:234:MET:HB2	1.93	0.49
5:Db:105:SER:HB2	5:Db:112:LEU:HD11	1.94	0.49
5:Dt:105:SER:HB2	5:Dt:112:LEU:HD11	1.93	0.49
6:Eg:292:PRO:HB3	6:Eg:306:LEU:HD13	1.94	0.49
6:Ek:326:PHE:HD2	6:Ek:328:ASP:H	1.60	0.49
6:Ek:361:PRO:HB2	7:Fd:148:ARG:HD2	1.93	0.49
10:Ju:259:GLU:HG3	10:Ju:266:HIS:HD2	1.77	0.49
11:Lc:104:VAL:HG23	11:Lc:105:ARG:HG2	1.95	0.49
11:Lk:104:VAL:HG23	11:Lk:105:ARG:HG2	1.95	0.49
11:Lq:104:VAL:HG23	11:Lq:105:ARG:HG2	1.94	0.49
12:Mo:87:GLN:HE21	12:Mp:94:TRP:HB3	1.77	0.49
12:Mv:87:GLN:HE21	12:Mw:94:TRP:HB3	1.77	0.49
12:Nh:168:VAL:HG12	12:Nh:175:VAL:HA	1.95	0.49
12:Ny:87:GLN:HE21	12:Nz:94:TRP:HB3	1.77	0.49
13:Pc:309:LYS:HB3	13:Pc:382:ILE:HA	1.93	0.49
13:Pl:385:GLU:HG2	13:Pm:304:VAL:HG22	1.93	0.49
1:An:96:MET:HG3	1:An:220:LEU:HA	1.95	0.49
1:Ao:1:MET:O	1:Ao:5:LEU:HB2	2.13	0.49
1:At:96:MET:HB3	1:At:216:ARG:HB2	1.95	0.49
6:Eu:292:PRO:HB3	6:Eu:306:LEU:HD13	1.95	0.49
7:Fc:249:PHE:HB3	7:Fc:254:LEU:HD23	1.94	0.49
7:Fh:111:LYS:HD2	8:Gf:197:PRO:HD3	1.94	0.49
7:Fj:83:THR:HG22	7:Fj:111:LYS:HA	1.94	0.49
7:Fo:64:ALA:HB2	7:Fo:172:LEU:HD22	1.95	0.49
7:Fo:249:PHE:HB3	7:Fo:254:LEU:HD23	1.93	0.49
7:Fr:184:ILE:HG12	7:Fr:286:VAL:HG22	1.93	0.49
11:Kr:79:GLU:H	11:Kr:86:GLY:HA3	1.78	0.49
11:Kv:79:GLU:H	11:Kv:86:GLY:HA3	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Kx:104:VAL:HG23	11:Kx:105:ARG:HG2	1.95	0.49
11:Mc:79:GLU:H	11:Mc:86:GLY:HA3	1.76	0.49
12:Mw:87:GLN:HE21	12:Mx:94:TRP:HB3	1.77	0.49
12:My:87:GLN:HE21	12:Mz:94:TRP:HB3	1.78	0.49
12:Mz:168:VAL:HG12	12:Mz:175:VAL:HA	1.95	0.49
12:Nk:87:GLN:HE21	12:Nl:94:TRP:HB3	1.77	0.49
12:Nx:87:GLN:HE21	12:Ny:94:TRP:HB3	1.78	0.49
13:Om:385:GLU:HG2	13:On:304:VAL:HG13	1.93	0.49
13:Pq:256:VAL:HG13	13:Pq:258:ALA:H	1.77	0.49
1:Ag:85:ASN:HD22	3:Be:3:TYR:HD1	1.61	0.49
1:Ao:80:VAL:HG13	1:Ap:91:ASN:HB3	1.95	0.49
3:Bq:357:LEU:HB3	3:Bq:365:TRP:HB3	1.93	0.49
4:By:134:ASP:HB2	4:Bz:155:LYS:HB2	1.94	0.49
5:Da:105:SER:HB2	5:Da:112:LEU:HD11	1.94	0.49
7:Fd:111:LYS:HD2	8:Gb:197:PRO:HD3	1.94	0.49
7:Fm:249:PHE:HB3	7:Fm:254:LEU:HD23	1.93	0.49
7:Fo:223:THR:HG22	7:Fo:285:VAL:HG22	1.93	0.49
8:Gj:116:ARG:HD3	8:Gj:149:GLN:HE22	1.76	0.49
11:Kb:79:GLU:H	11:Kb:86:GLY:HA3	1.78	0.49
11:Lo:104:VAL:HG23	11:Lo:105:ARG:HG2	1.94	0.49
11:Lu:79:GLU:H	11:Lu:86:GLY:HA3	1.78	0.49
12:Ms:168:VAL:HG12	12:Ms:175:VAL:HA	1.94	0.49
12:Mx:168:VAL:HG12	12:Mx:175:VAL:HA	1.95	0.49
12:Nd:168:VAL:HG12	12:Nd:175:VAL:HA	1.95	0.49
12:Nl:168:VAL:HG12	12:Nl:175:VAL:HA	1.95	0.49
12:Nn:168:VAL:HG12	12:Nn:175:VAL:HA	1.95	0.49
12:No:87:GLN:HE21	12:Np:94:TRP:HB3	1.77	0.49
12:Ns:87:GLN:HE21	12:Nt:94:TRP:HB3	1.78	0.49
13:Os:322:TYR:HB3	13:Os:373:THR:HB	1.94	0.49
1:Az:176:THR:HG23	1:Az:207:PRO:HG3	1.95	0.49
2:Bc:15:ASN:O	2:Bc:19:MET:HG2	2.13	0.49
2:Bc:29:VAL:HG23	2:Bc:209:VAL:HB	1.94	0.49
2:Bd:166:LEU:HD21	2:Bd:199:ILE:HD11	1.94	0.49
3:Br:134:THR:HG23	3:Br:136:ASP:H	1.77	0.49
5:Dj:224:ARG:HH21	6:Ea:368:GLN:HB2	1.77	0.49
5:Du:224:ARG:HH21	6:El:368:GLN:HB2	1.76	0.49
6:En:255:ASP:HB3	6:En:258:SER:HB3	1.94	0.49
7:Fn:83:THR:HG22	7:Fn:111:LYS:HA	1.95	0.49
8:Fx:154:LEU:HB3	8:Fx:164:TYR:HE1	1.77	0.49
8:Gj:154:LEU:HB3	8:Gj:164:TYR:HE1	1.78	0.49
8:Gl:69:ILE:HD13	10:Jq:238:GLU:HG2	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Gp:116:ARG:HD3	8:Gp:149:GLN:HE22	1.78	0.49
10:Ix:267:LEU:HD22	10:Iy:277:THR:HA	1.95	0.49
11:Lb:79:GLU:H	11:Lb:86:GLY:HA3	1.77	0.49
11:Le:79:GLU:H	11:Le:86:GLY:HA3	1.77	0.49
12:Md:94:TRP:HB3	12:Oi:87:GLN:HE21	1.78	0.49
12:Nd:87:GLN:HE21	12:Ne:94:TRP:HB3	1.78	0.49
12:Ng:161:VAL:HG12	12:Ng:188:ILE:HD11	1.95	0.49
12:Nu:87:GLN:HE21	12:Nv:94:TRP:HB3	1.78	0.49
12:Ob:87:GLN:HE21	12:Oc:94:TRP:HB3	1.77	0.49
13:Ok:432:ILE:HG23	13:Ok:437:TYR:HB3	1.93	0.49
13:Po:262:LYS:HE3	13:Pp:261:ARG:HH11	1.78	0.49
1:Al:129:VAL:HG12	1:Al:136:ARG:HA	1.95	0.49
1:Al:150:ILE:HG22	1:Al:160:VAL:HG12	1.95	0.49
1:Al:209:LEU:HA	1:Aw:163:ARG:HH12	1.77	0.49
1:Ax:141:ILE:HD13	1:Ax:158:VAL:HG21	1.94	0.49
3:Be:25:ASN:HB2	3:Be:33:GLU:HG3	1.94	0.49
3:Bk:4:VAL:HG13	3:Bk:57:GLY:HA2	1.93	0.49
2:Bw:32:THR:HG21	2:Bw:204:LEU:HD13	1.95	0.49
6:Ee:226:VAL:HB	6:Ee:236:MET:HB3	1.95	0.49
6:Eh:92:GLU:HB2	6:Eh:103:ARG:HB3	1.94	0.49
6:Ek:92:GLU:HB2	6:Ek:103:ARG:HB3	1.93	0.49
7:Fd:83:THR:HG22	7:Fd:111:LYS:HA	1.95	0.49
7:Fs:64:ALA:HB2	7:Fs:172:LEU:HD22	1.94	0.49
8:Gn:154:LEU:HB3	8:Gn:164:TYR:HE1	1.78	0.49
10:Iz:267:LEU:HD22	10:Ja:277:THR:HA	1.95	0.49
11:Kw:79:GLU:H	11:Kw:86:GLY:HA3	1.77	0.49
11:Ma:79:GLU:H	11:Ma:86:GLY:HA3	1.78	0.49
12:Mn:87:GLN:HE21	12:Mo:94:TRP:HB3	1.78	0.49
12:Mq:87:GLN:HE21	12:Mr:94:TRP:HB3	1.78	0.49
12:Ms:87:GLN:HE21	12:Mt:94:TRP:HB3	1.77	0.49
12:Na:161:VAL:HG12	12:Na:188:ILE:HD11	1.95	0.49
12:Nj:168:VAL:HG12	12:Nj:175:VAL:HA	1.95	0.49
12:Np:87:GLN:HE21	12:Nq:94:TRP:HB3	1.78	0.49
12:Nq:87:GLN:HE21	12:Nr:94:TRP:HB3	1.77	0.49
13:Or:322:TYR:HB3	13:Or:373:THR:HB	1.95	0.49
13:Pn:432:ILE:HD12	13:Pn:437:TYR:HB2	1.95	0.49
1:Ae:44:LEU:HD21	1:Ae:73:LYS:HB3	1.95	0.49
1:Ai:167:ASP:HA	3:Bm:369:GLN:HB3	1.94	0.49
1:Am:36:LYS:HB3	1:Am:225:VAL:HG22	1.94	0.49
1:At:83:ASN:HD22	1:At:99:GLY:HA2	1.78	0.49
3:Bq:80:ASP:HB3	3:Bq:390:GLY:H	1.78	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Cw:206:ILE:HG12	4:Cw:235:TYR:HD1	1.78	0.49
5:Cz:224:ARG:HH21	6:Eq:368:GLN:HB2	1.78	0.49
5:Dd:224:ARG:HH21	6:Eu:368:GLN:HB2	1.77	0.49
6:Ee:292:PRO:HB3	6:Ee:306:LEU:HD13	1.95	0.49
6:Ei:292:PRO:HB3	6:Ei:306:LEU:HD13	1.95	0.49
7:Ez:111:LYS:HD2	8:Fx:197:PRO:HD3	1.95	0.49
11:Jx:72:MET:H	11:Jy:97:VAL:HG23	1.78	0.49
11:Ln:79:GLU:H	11:Ln:86:GLY:HA3	1.78	0.49
11:Lq:79:GLU:H	11:Lq:86:GLY:HA3	1.78	0.49
11:Mc:104:VAL:HG23	11:Mc:105:ARG:HG2	1.95	0.49
12:Nd:161:VAL:HG12	12:Nd:188:ILE:HD11	1.95	0.49
12:Nf:168:VAL:HG12	12:Nf:175:VAL:HA	1.95	0.49
12:Nt:87:GLN:HE21	12:Nu:94:TRP:HB3	1.78	0.49
12:Of:87:GLN:HE21	12:Og:94:TRP:HB3	1.78	0.49
1:Aa:243:MET:HE3	1:Ak:227:VAL:HB	1.95	0.48
1:Ah:52:PRO:HB2	1:Ai:196:THR:HG21	1.95	0.48
1:Au:185:LEU:HB3	1:Au:193:TYR:HB3	1.95	0.48
7:Fd:184:ILE:HG12	7:Fd:286:VAL:HG22	1.93	0.48
7:Ft:83:THR:HG22	7:Ft:111:LYS:HA	1.95	0.48
8:Gb:116:ARG:HD3	8:Gb:149:GLN:HE22	1.78	0.48
11:Jz:104:VAL:HG23	11:Jz:105:ARG:HG2	1.95	0.48
11:Ks:79:GLU:H	11:Ks:86:GLY:HA3	1.78	0.48
11:Kz:79:GLU:H	11:Kz:86:GLY:HA3	1.78	0.48
11:Lg:79:GLU:H	11:Lg:86:GLY:HA3	1.78	0.48
12:Mg:87:GLN:HE21	12:Mh:94:TRP:HB3	1.78	0.48
12:Mr:161:VAL:HG12	12:Mr:188:ILE:HD11	1.95	0.48
12:Mu:87:GLN:HE21	12:Mv:94:TRP:HB3	1.77	0.48
12:Mv:161:VAL:HG12	12:Mv:188:ILE:HD11	1.95	0.48
13:Pj:274:LEU:HD11	13:Pj:435:VAL:HG13	1.94	0.48
1:Ae:67:MET:HE1	1:Am:186:GLU:HG3	1.94	0.48
1:Ah:137:LEU:HG	1:Ah:139:PRO:HD2	1.94	0.48
1:At:181:ASN:HB3	1:At:199:SER:HA	1.95	0.48
1:Bb:6:TRP:HZ3	1:Bb:70:ALA:HB1	1.78	0.48
5:Di:41:VAL:HG23	5:Di:83:VAL:HG21	1.96	0.48
5:Dv:105:SER:HB2	5:Dv:112:LEU:HD11	1.94	0.48
6:Dx:201:ASP:HB3	6:Dx:221:ALA:HB3	1.94	0.48
6:Dx:292:PRO:HB3	6:Dx:306:LEU:HD13	1.95	0.48
6:Ef:292:PRO:HB3	6:Ef:306:LEU:HD13	1.94	0.48
6:Eq:80:PHE:HA	9:Hq:136:VAL:HG21	1.95	0.48
6:Ev:209:LYS:HD2	6:Ev:212:GLN:HB2	1.94	0.48
10:Jk:240:TYR:HE1	10:Jk:249:GLN:HG3	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Jx:104:VAL:HG23	11:Jx:105:ARG:HG2	1.95	0.48
12:Mh:87:GLN:HE21	12:Mi:94:TRP:HB3	1.77	0.48
12:Mt:161:VAL:HG12	12:Mt:188:ILE:HD11	1.95	0.48
12:Nb:168:VAL:HG12	12:Nb:175:VAL:HA	1.95	0.48
12:Ni:161:VAL:HG12	12:Ni:188:ILE:HD11	1.95	0.48
12:Nl:87:GLN:HE21	12:Nm:94:TRP:HB3	1.78	0.48
13:On:431:LEU:HB3	13:On:445:LEU:HD11	1.95	0.48
13:Pb:282:LEU:HD21	13:Pb:431:LEU:HD21	1.93	0.48
13:Pg:304:VAL:HB	13:Pg:387:LYS:HB2	1.95	0.48
1:Ad:168:ASN:H	3:Bj:369:GLN:HE22	1.60	0.48
1:Ah:10:THR:HG22	1:As:88:THR:HG23	1.95	0.48
3:Bm:126:LEU:HD13	3:Bm:142:PRO:HB2	1.94	0.48
5:Db:224:ARG:HH21	6:Es:368:GLN:HB2	1.79	0.48
5:Dh:105:SER:HB2	5:Dh:112:LEU:HD11	1.94	0.48
5:Dk:250:ILE:HG23	5:Dk:261:VAL:HG22	1.95	0.48
6:Dx:249:PRO:HG2	6:Dx:252:SER:HB3	1.95	0.48
6:Ej:249:PRO:HG2	6:Ej:252:SER:HB3	1.95	0.48
6:Ev:255:ASP:HB3	6:Ev:258:SER:HB3	1.96	0.48
10:Jv:267:LEU:HD22	10:Jw:277:THR:HA	1.95	0.48
11:Kc:79:GLU:H	11:Kc:86:GLY:HA3	1.78	0.48
11:Kg:79:GLU:H	11:Kg:86:GLY:HA3	1.77	0.48
11:Lh:79:GLU:H	11:Lh:86:GLY:HA3	1.78	0.48
11:Lk:79:GLU:H	11:Lk:86:GLY:HA3	1.78	0.48
11:Ly:79:GLU:H	11:Ly:86:GLY:HA3	1.78	0.48
12:Mk:168:VAL:HG12	12:Mk:175:VAL:HA	1.95	0.48
12:Ms:161:VAL:HG12	12:Ms:188:ILE:HD11	1.95	0.48
12:Mu:161:VAL:HG12	12:Mu:188:ILE:HD11	1.95	0.48
12:Mz:161:VAL:HG12	12:Mz:188:ILE:HD11	1.96	0.48
12:Nc:161:VAL:HG12	12:Nc:188:ILE:HD11	1.96	0.48
13:Oj:396:THR:HG21	13:Pq:436:GLY:HA2	1.95	0.48
13:Pf:386:ARG:HB3	13:Pg:303:ALA:HB3	1.94	0.48
1:Af:49:ILE:HB	1:Af:66:LEU:HB3	1.94	0.48
1:Aj:55:GLN:HA	1:Aj:61:ARG:HA	1.95	0.48
1:Ap:115:SER:HB2	1:Ap:192:LEU:HD23	1.96	0.48
3:Bn:328:ASN:HB3	3:Bn:345:ARG:HH12	1.79	0.48
3:Bo:378:GLU:HB2	3:Bo:381:LYS:HE3	1.94	0.48
3:Bt:96:LEU:HD22	4:Cu:155:LYS:HE3	1.94	0.48
4:Cu:124:ASP:HB2	4:Cv:165:ALA:HB3	1.95	0.48
5:Du:105:SER:HB2	5:Du:112:LEU:HD11	1.94	0.48
6:Ev:85:VAL:HG22	6:Ev:108:ILE:HG12	1.95	0.48
7:Fl:83:THR:HG22	7:Fl:111:LYS:HA	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Fn:111:LYS:HD2	8:Gl:197:PRO:HD3	1.94	0.48
11:Ll:79:GLU:H	11:Ll:86:GLY:HA3	1.77	0.48
11:Lz:79:GLU:H	11:Lz:86:GLY:HA3	1.78	0.48
12:Me:87:GLN:HE21	12:Mf:94:TRP:HB3	1.77	0.48
12:Mj:87:GLN:HE21	12:Mk:94:TRP:HB3	1.78	0.48
12:Mk:87:GLN:HE21	12:Ml:94:TRP:HB3	1.78	0.48
12:Mn:168:VAL:HG12	12:Mn:175:VAL:HA	1.95	0.48
12:Mq:161:VAL:HG12	12:Mq:188:ILE:HD11	1.95	0.48
12:Mw:161:VAL:HG12	12:Mw:188:ILE:HD11	1.96	0.48
12:Mx:87:GLN:HE21	12:My:94:TRP:HB3	1.78	0.48
12:Ne:161:VAL:HG12	12:Ne:188:ILE:HD11	1.96	0.48
12:Nf:161:VAL:HG12	12:Nf:188:ILE:HD11	1.96	0.48
12:Nj:161:VAL:HG12	12:Nj:188:ILE:HD11	1.95	0.48
12:Nk:161:VAL:HG12	12:Nk:188:ILE:HD11	1.96	0.48
12:Np:168:VAL:HG12	12:Np:175:VAL:HA	1.95	0.48
13:Oz:285:ILE:HG21	13:Oz:427:ILE:HD11	1.96	0.48
1:Aa:52:PRO:HB2	1:Ak:196:THR:HG21	1.96	0.48
1:Aa:231:LEU:HG	1:Ag:243:MET:HE2	1.96	0.48
1:Af:150:ILE:HG12	1:Af:160:VAL:HG12	1.95	0.48
3:Bq:72:SER:HB2	3:Bq:391:SER:HB2	1.94	0.48
3:Bq:130:VAL:HG12	3:Bq:137:VAL:HG22	1.94	0.48
5:Da:41:VAL:HG23	5:Da:83:VAL:HG21	1.96	0.48
5:Dd:41:VAL:HG23	5:Dd:83:VAL:HG21	1.96	0.48
5:Dj:41:VAL:HG23	5:Dj:83:VAL:HG21	1.96	0.48
5:Do:105:SER:HB2	5:Do:112:LEU:HD11	1.95	0.48
6:Dz:262:TRP:HA	6:Dz:267:GLY:HA3	1.96	0.48
6:Dz:292:PRO:HB3	6:Dz:306:LEU:HD13	1.95	0.48
6:Em:131:LEU:HD23	6:Em:199:ILE:HB	1.95	0.48
6:En:63:SER:HA	6:En:66:ASN:HD21	1.78	0.48
7:Fh:83:THR:HG22	7:Fh:111:LYS:HA	1.95	0.48
8:Gv:116:ARG:HD3	8:Gv:149:GLN:HE22	1.78	0.48
10:Jo:240:TYR:HE1	10:Jo:249:GLN:HG3	1.78	0.48
10:Jt:267:LEU:HD22	10:Ju:277:THR:HA	1.95	0.48
11:Jz:79:GLU:H	11:Jz:86:GLY:HA3	1.78	0.48
11:Kn:79:GLU:H	11:Kn:86:GLY:HA3	1.79	0.48
11:Ku:79:GLU:H	11:Ku:86:GLY:HA3	1.78	0.48
12:Mv:168:VAL:HG12	12:Mv:175:VAL:HA	1.96	0.48
12:Mx:161:VAL:HG12	12:Mx:188:ILE:HD11	1.96	0.48
12:My:161:VAL:HG12	12:My:188:ILE:HD11	1.96	0.48
12:Ni:87:GLN:HE21	12:Nj:94:TRP:HB3	1.78	0.48
12:No:161:VAL:HG12	12:No:188:ILE:HD11	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Nz:87:GLN:HE21	12:Oa:94:TRP:HB3	1.77	0.48
12:Oc:87:GLN:HE21	12:Od:94:TRP:HB3	1.78	0.48
13:Po:320:SER:HB2	13:Po:375:ASN:HB3	1.95	0.48
13:Pp:282:LEU:HD21	13:Pp:431:LEU:HD21	1.95	0.48
3:Bh:82:ARG:HG3	3:Bh:393:GLU:HB3	1.95	0.48
3:Bn:129:GLU:H	3:Bn:143:LYS:HE2	1.78	0.48
5:Df:224:ARG:HH21	6:Ew:368:GLN:HB2	1.79	0.48
5:Dk:41:VAL:HG23	5:Dk:83:VAL:HG21	1.96	0.48
5:Dw:105:SER:HB2	5:Dw:112:LEU:HD11	1.95	0.48
6:Ea:326:PHE:HD2	6:Ea:328:ASP:H	1.60	0.48
6:Ef:81:ALA:HB1	11:Kg:77:ARG:HH22	1.79	0.48
6:Eo:249:PRO:HG2	6:Eo:252:SER:HB3	1.94	0.48
6:Es:342:ILE:HG21	6:Es:367:ILE:HD11	1.96	0.48
7:Fj:111:LYS:HD2	8:Gh:197:PRO:HD3	1.95	0.48
7:Fv:83:THR:HG22	7:Fv:111:LYS:HA	1.95	0.48
8:Gs:82:LEU:HD23	8:Gs:88:VAL:HG21	1.96	0.48
10:Jh:267:LEU:HD22	10:Ji:277:THR:HA	1.95	0.48
11:Jx:79:GLU:H	11:Jx:86:GLY:HA3	1.79	0.48
11:Kf:79:GLU:H	11:Kf:86:GLY:HA3	1.79	0.48
11:Lj:78:ALA:HB3	11:Lk:91:ALA:HB3	1.96	0.48
12:Mo:161:VAL:HG12	12:Mo:188:ILE:HD11	1.96	0.48
12:Mo:168:VAL:HG12	12:Mo:175:VAL:HA	1.95	0.48
12:Mp:168:VAL:HG12	12:Mp:175:VAL:HA	1.95	0.48
12:Mu:168:VAL:HG12	12:Mu:175:VAL:HA	1.95	0.48
12:My:168:VAL:HG12	12:My:175:VAL:HA	1.95	0.48
12:Nb:161:VAL:HG12	12:Nb:188:ILE:HD11	1.96	0.48
12:Nh:161:VAL:HG12	12:Nh:188:ILE:HD11	1.96	0.48
12:Nv:168:VAL:HG12	12:Nv:175:VAL:HA	1.95	0.48
13:Oj:303:ALA:HB3	13:Pq:386:ARG:HB3	1.96	0.48
13:Oz:385:GLU:HG2	13:Pa:304:VAL:HG22	1.95	0.48
13:Pd:267:GLU:HG2	13:Pd:299:LEU:HD23	1.95	0.48
13:Pi:282:LEU:HD21	13:Pi:431:LEU:HD21	1.94	0.48
1:Ad:247:VAL:HG22	1:Ah:234:MET:HE2	1.95	0.48
1:Ae:137:LEU:HG	1:Ae:139:PRO:HD2	1.94	0.48
1:Af:42:GLU:HB3	1:Al:190:GLN:HA	1.96	0.48
1:Ag:1:MET:HB2	1:Ag:251:VAL:HG13	1.95	0.48
1:As:96:MET:HB3	1:As:216:ARG:HB3	1.95	0.48
3:Bp:350:ARG:HG3	3:Bp:375:ILE:HB	1.96	0.48
3:Br:14:MET:HE2	3:Br:63:VAL:HG21	1.96	0.48
5:Dd:250:ILE:HG23	5:Dd:261:VAL:HG22	1.96	0.48
5:De:224:ARG:HH21	6:Ev:368:GLN:HB2	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dg:250:ILE:HG23	5:Dg:261:VAL:HG22	1.96	0.48
5:Di:250:ILE:HG23	5:Di:261:VAL:HG22	1.95	0.48
5:Dp:250:ILE:HG23	5:Dp:261:VAL:HG22	1.95	0.48
6:Dx:241:ARG:HB3	9:Hy:143:THR:HG21	1.96	0.48
6:Ej:292:PRO:HB3	6:Ej:306:LEU:HD13	1.95	0.48
6:Em:255:ASP:HB3	6:Em:258:SER:HB3	1.96	0.48
6:Es:361:PRO:HB2	7:Fl:148:ARG:HD2	1.95	0.48
6:Ev:92:GLU:HB2	6:Ev:103:ARG:HB3	1.94	0.48
7:Ff:111:LYS:HD2	8:Gd:197:PRO:HD3	1.95	0.48
8:Gc:154:LEU:HB3	8:Gc:164:TYR:HE1	1.79	0.48
8:Gf:116:ARG:HD3	8:Gf:149:GLN:HE22	1.78	0.48
10:Jb:267:LEU:HD22	10:Jc:277:THR:HA	1.95	0.48
11:Kt:79:GLU:H	11:Kt:86:GLY:HA3	1.77	0.48
11:Lc:79:GLU:H	11:Lc:86:GLY:HA3	1.79	0.48
12:Mn:161:VAL:HG12	12:Mn:188:ILE:HD11	1.96	0.48
12:Nm:161:VAL:HG12	12:Nm:188:ILE:HD11	1.96	0.48
12:Oh:87:GLN:HE21	12:Oi:94:TRP:HB3	1.78	0.48
13:Pa:286:LEU:HD12	13:Pa:291:TYR:HB3	1.96	0.48
13:Pi:380:THR:H	13:Pj:309:LYS:HB3	1.79	0.48
13:Pj:396:THR:HG22	13:Pj:444:LEU:HB2	1.96	0.48
1:Aa:254:MET:HE2	1:Ak:241:TYR:HB3	1.96	0.48
1:An:19:ILE:HA	1:An:22:ILE:HG22	1.96	0.48
1:Aw:129:VAL:HG12	1:Aw:136:ARG:HG2	1.96	0.48
3:Bg:378:GLU:HB2	3:Bg:381:LYS:HD2	1.96	0.48
4:Bx:129:ASN:HB2	4:Bx:156:ASN:HB3	1.96	0.48
4:Cp:231:ALA:HB3	4:Cq:195:LYS:HG3	1.96	0.48
4:Cr:113:GLU:HB2	4:Cr:172:MET:HB3	1.96	0.48
5:Dc:105:SER:HB2	5:Dc:112:LEU:HD11	1.95	0.48
5:Dh:41:VAL:HG23	5:Dh:83:VAL:HG21	1.96	0.48
5:Dm:224:ARG:HH21	6:Ed:368:GLN:HB2	1.79	0.48
5:Dp:224:ARG:HH21	6:Eg:368:GLN:HB2	1.79	0.48
5:Dt:224:ARG:HH21	6:Ek:368:GLN:HB2	1.78	0.48
6:Ec:292:PRO:HB3	6:Ec:306:LEU:HD13	1.95	0.48
7:Ex:184:ILE:HG12	7:Ex:286:VAL:HG22	1.94	0.48
10:Jj:267:LEU:HD22	10:Jk:277:THR:HA	1.95	0.48
10:Jm:240:TYR:HE1	10:Jm:249:GLN:HG3	1.79	0.48
12:Mp:161:VAL:HG12	12:Mp:188:ILE:HD11	1.96	0.48
12:Mq:168:VAL:HG12	12:Mq:175:VAL:HA	1.95	0.48
12:Nf:87:GLN:HE21	12:Ng:94:TRP:HB3	1.78	0.48
12:Nn:161:VAL:HG12	12:Nn:188:ILE:HD11	1.96	0.48
2:Bv:14:GLN:HG3	2:Bv:58:MET:HA	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ca:125:LEU:HB2	4:Ca:160:PHE:HB3	1.96	0.48
4:Cg:227:ARG:HH22	4:Ch:221:ASN:HB3	1.79	0.48
4:Cv:231:ALA:HB3	4:Cw:195:LYS:HG3	1.96	0.48
5:Cz:41:VAL:HG23	5:Cz:83:VAL:HG21	1.96	0.48
5:De:105:SER:HB2	5:De:112:LEU:HD11	1.94	0.48
6:Ed:92:GLU:HB2	6:Ed:103:ARG:HB3	1.96	0.48
6:Eo:255:ASP:HB3	6:Eo:258:SER:HB3	1.95	0.48
6:Eu:226:VAL:HB	6:Eu:236:MET:HB3	1.95	0.48
8:Gq:82:LEU:HD23	8:Gq:88:VAL:HG21	1.96	0.48
11:Ki:79:GLU:H	11:Ki:86:GLY:HA3	1.78	0.48
11:Ld:79:GLU:H	11:Ld:86:GLY:HA3	1.78	0.48
12:Mg:168:VAL:HG12	12:Mg:175:VAL:HA	1.95	0.48
12:Mi:168:VAL:HG12	12:Mi:175:VAL:HA	1.95	0.48
12:Mm:168:VAL:HG12	12:Mm:175:VAL:HA	1.95	0.48
12:Mr:87:GLN:HE21	12:Ms:94:TRP:HB3	1.78	0.48
12:Na:168:VAL:HG12	12:Na:175:VAL:HA	1.95	0.48
12:Nl:161:VAL:HG12	12:Nl:188:ILE:HD11	1.96	0.48
12:Nq:168:VAL:HG12	12:Nq:175:VAL:HA	1.95	0.48
12:Nr:168:VAL:HG12	12:Nr:175:VAL:HA	1.95	0.48
1:Af:98:GLU:O	1:Af:213:GLY:CA	2.62	0.48
1:Ag:86:VAL:HG13	1:Ag:96:MET:HG3	1.96	0.48
1:Ah:96:MET:HG2	1:Ah:216:ARG:HB3	1.96	0.48
3:Bj:89:PHE:HB2	3:Bj:104:THR:O	2.13	0.48
3:Bt:32:LYS:HB2	3:Bt:65:GLN:HE21	1.79	0.48
5:Db:41:VAL:HG23	5:Db:83:VAL:HG21	1.96	0.48
5:Dc:41:VAL:HG23	5:Dc:83:VAL:HG21	1.96	0.48
5:Dg:41:VAL:HG23	5:Dg:83:VAL:HG21	1.96	0.48
5:Dh:250:ILE:HG23	5:Dh:261:VAL:HG22	1.96	0.48
5:Dl:41:VAL:HG23	5:Dl:83:VAL:HG21	1.96	0.48
5:Dv:91:ALA:HB1	5:Dv:174:ASN:HD21	1.79	0.48
7:Fa:249:PHE:HB3	7:Fa:254:LEU:HD23	1.96	0.48
7:Fe:116:TYR:HE2	8:Ge:198:GLU:HB3	1.79	0.48
8:Gg:82:LEU:HD23	8:Gg:88:VAL:HG21	1.96	0.48
8:Gu:82:LEU:HD23	8:Gu:88:VAL:HG21	1.96	0.48
10:Ji:240:TYR:HE1	10:Ji:249:GLN:HG3	1.79	0.48
10:Js:240:TYR:HE1	10:Js:249:GLN:HG3	1.79	0.48
10:Jw:240:TYR:HE1	10:Jw:249:GLN:HG3	1.79	0.48
12:Me:168:VAL:HG12	12:Me:175:VAL:HA	1.95	0.48
12:Mk:161:VAL:HG12	12:Mk:188:ILE:HD11	1.95	0.48
12:Ml:161:VAL:HG12	12:Ml:188:ILE:HD11	1.96	0.48
12:Mp:87:GLN:HE21	12:Mq:94:TRP:HB3	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Nc:87:GLN:HE21	12:Nd:94:TRP:HB3	1.78	0.48
12:Nn:87:GLN:HE21	12:No:94:TRP:HB3	1.78	0.48
12:Nt:168:VAL:HG12	12:Nt:175:VAL:HA	1.95	0.48
13:Oj:324:LEU:HB3	13:Oj:371:GLU:HB3	1.96	0.48
13:Pb:298:GLU:HB2	13:Pb:394:ARG:HB3	1.95	0.48
13:Pf:432:ILE:HD13	13:Pf:445:LEU:HD13	1.96	0.48
13:Pp:325:GLU:HB2	13:Pq:370:LYS:HB2	1.96	0.48
1:Ad:69:GLY:HA3	1:Ah:24:ASN:HB2	1.96	0.47
1:Ah:89:THR:HG22	1:Ah:91:ASN:H	1.79	0.47
1:Ao:5:LEU:HD13	1:Ao:248:ILE:HD11	1.95	0.47
1:Aq:243:MET:HE3	1:Ar:227:VAL:HG12	1.95	0.47
4:Cj:125:LEU:HB2	4:Cj:160:PHE:HB3	1.96	0.47
4:Cv:125:LEU:HB2	4:Cv:160:PHE:HB3	1.96	0.47
5:Cy:41:VAL:HG23	5:Cy:83:VAL:HG21	1.96	0.47
6:Ei:56:PHE:HD1	9:Ii:139:LYS:HE2	1.79	0.47
6:Ew:226:VAL:HB	6:Ew:236:MET:HB3	1.96	0.47
7:Ex:83:THR:HG22	7:Ex:111:LYS:HA	1.94	0.47
7:Fq:249:PHE:HB3	7:Fq:254:LEU:HD23	1.95	0.47
8:Gw:154:LEU:HB3	8:Gw:164:TYR:HE1	1.79	0.47
10:Jg:240:TYR:HE1	10:Jg:249:GLN:HG3	1.79	0.47
11:Ky:79:GLU:H	11:Ky:86:GLY:HA3	1.79	0.47
11:Lr:79:GLU:H	11:Lr:86:GLY:HA3	1.77	0.47
11:Lw:79:GLU:H	11:Lw:86:GLY:HA3	1.79	0.47
12:Md:161:VAL:HG12	12:Md:188:ILE:HD11	1.95	0.47
12:Me:78:ILE:HG12	12:Me:148:TYR:HB2	1.97	0.47
12:Mf:161:VAL:HG12	12:Mf:188:ILE:HD11	1.95	0.47
12:Mh:161:VAL:HG12	12:Mh:188:ILE:HD11	1.95	0.47
12:Mi:78:ILE:HG12	12:Mi:148:TYR:HB2	1.96	0.47
12:Mp:78:ILE:HG12	12:Mp:148:TYR:HB2	1.96	0.47
12:Mt:168:VAL:HG12	12:Mt:175:VAL:HA	1.96	0.47
12:Mu:78:ILE:HG12	12:Mu:148:TYR:HB2	1.96	0.47
12:Mw:78:ILE:HG12	12:Mw:148:TYR:HB2	1.97	0.47
12:Na:78:ILE:HG12	12:Na:148:TYR:HB2	1.96	0.47
12:Nq:161:VAL:HG12	12:Nq:188:ILE:HD11	1.96	0.47
12:Ny:161:VAL:HG12	12:Ny:188:ILE:HD11	1.95	0.47
13:Pp:270:GLN:HG3	13:Pp:299:LEU:HD11	1.95	0.47
1:Ab:226:ASN:HB3	1:Ab:229:GLU:HG2	1.96	0.47
1:Ac:7:VAL:HG13	1:Ac:71:GLY:HA2	1.95	0.47
1:Al:32:ILE:HD12	1:Al:220:LEU:HD22	1.96	0.47
2:Bc:22:ARG:HH12	2:Bc:217:SER:HB2	1.79	0.47
3:Bg:51:LYS:HG3	3:Bg:52:THR:HG23	1.95	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Bn:350:ARG:HE	3:Bn:375:ILE:HD11	1.80	0.47
4:Cc:125:LEU:HB2	4:Cc:160:PHE:HB3	1.96	0.47
4:Cs:231:ALA:HB3	4:Ct:195:LYS:HG3	1.97	0.47
5:De:41:VAL:HG23	5:De:83:VAL:HG21	1.96	0.47
5:Dm:41:VAL:HG23	5:Dm:83:VAL:HG21	1.96	0.47
5:Dm:250:ILE:HG23	5:Dm:261:VAL:HG22	1.95	0.47
6:Ec:63:SER:HA	6:Ec:66:ASN:HD21	1.79	0.47
7:Fb:83:THR:HG22	7:Fb:111:LYS:HA	1.96	0.47
7:Fp:111:LYS:HD2	8:Gn:197:PRO:HD3	1.95	0.47
8:Gc:82:LEU:HD23	8:Gc:88:VAL:HG21	1.95	0.47
8:Gt:116:ARG:HD3	8:Gt:149:GLN:HE22	1.79	0.47
12:Mg:78:ILE:HG12	12:Mg:148:TYR:HB2	1.97	0.47
12:Mj:78:ILE:HG12	12:Mj:148:TYR:HB2	1.97	0.47
12:Ml:78:ILE:HG12	12:Ml:148:TYR:HB2	1.97	0.47
12:Mr:78:ILE:HG12	12:Mr:148:TYR:HB2	1.97	0.47
12:Mr:168:VAL:HG12	12:Mr:175:VAL:HA	1.96	0.47
12:Mz:87:GLN:HE21	12:Na:94:TRP:HB3	1.78	0.47
12:Nb:78:ILE:HG12	12:Nb:148:TYR:HB2	1.96	0.47
12:Nd:78:ILE:HG12	12:Nd:148:TYR:HB2	1.96	0.47
12:Nt:161:VAL:HG12	12:Nt:188:ILE:HD11	1.95	0.47
12:Oi:78:ILE:HG12	12:Oi:148:TYR:HB2	1.97	0.47
1:Ap:49:ILE:HB	1:Ap:66:LEU:HB2	1.95	0.47
1:Aq:129:VAL:HG12	1:Aq:136:ARG:HA	1.96	0.47
1:Bb:96:MET:HE3	1:Bb:221:GLU:HB3	1.95	0.47
3:Be:9:LEU:HD11	3:Bt:404:VAL:HG13	1.96	0.47
4:Cn:231:ALA:HB3	4:Co:195:LYS:HG3	1.97	0.47
4:Cs:227:ARG:HH22	4:Ct:221:ASN:HB3	1.79	0.47
4:Ct:231:ALA:HB3	4:Cu:195:LYS:HG3	1.96	0.47
5:Cx:41:VAL:HG23	5:Cx:83:VAL:HG21	1.96	0.47
5:Do:41:VAL:HG23	5:Do:83:VAL:HG21	1.96	0.47
6:Eq:361:PRO:HB2	7:Fj:148:ARG:HD2	1.96	0.47
6:Er:78:TYR:HD2	6:Er:88:ILE:HB	1.79	0.47
7:Fh:68:ILE:HD11	7:Fi:112:GLN:HE21	1.79	0.47
8:Ge:82:LEU:HD23	8:Ge:88:VAL:HG21	1.95	0.47
11:Lx:79:GLU:H	11:Lx:86:GLY:HA3	1.80	0.47
12:Md:78:ILE:HG12	12:Md:148:TYR:HB2	1.96	0.47
12:Mg:161:VAL:HG12	12:Mg:188:ILE:HD11	1.95	0.47
12:Mj:161:VAL:HG12	12:Mj:188:ILE:HD11	1.96	0.47
12:Ml:168:VAL:HG12	12:Ml:175:VAL:HA	1.95	0.47
12:Mm:161:VAL:HG12	12:Mm:188:ILE:HD11	1.96	0.47
12:Mn:78:ILE:HG12	12:Mn:148:TYR:HB2	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:My:78:ILE:HG12	12:My:148:TYR:HB2	1.97	0.47
12:Ne:168:VAL:HG12	12:Ne:175:VAL:HA	1.95	0.47
12:Np:161:VAL:HG12	12:Np:188:ILE:HD11	1.96	0.47
12:Nu:161:VAL:HG12	12:Nu:188:ILE:HD11	1.95	0.47
12:Nw:161:VAL:HG12	12:Nw:188:ILE:HD11	1.95	0.47
12:Ob:168:VAL:HG12	12:Ob:175:VAL:HA	1.95	0.47
12:Oh:78:ILE:HG12	12:Oh:148:TYR:HB2	1.97	0.47
13:Os:320:SER:HB3	13:Os:375:ASN:HB3	1.95	0.47
13:Ot:295:VAL:HG12	13:Ot:397:VAL:HG22	1.95	0.47
3:Bf:150:GLN:HG3	3:Bf:152:GLY:H	1.79	0.47
4:Cm:227:ARG:HH22	4:Cn:221:ASN:HB3	1.79	0.47
4:Cp:227:ARG:HH22	4:Cq:221:ASN:HB3	1.79	0.47
4:Cq:125:LEU:HB2	4:Cq:160:PHE:HB3	1.96	0.47
5:Dc:250:ILE:HG23	5:Dc:261:VAL:HG22	1.96	0.47
5:Dm:91:ALA:HB1	5:Dm:174:ASN:HD21	1.79	0.47
5:Do:250:ILE:HG23	5:Do:261:VAL:HG22	1.96	0.47
5:Dp:41:VAL:HG23	5:Dp:83:VAL:HG21	1.96	0.47
5:Dv:41:VAL:HG23	5:Dv:83:VAL:HG21	1.96	0.47
6:Ed:88:ILE:HG12	6:Ed:106:ILE:HG23	1.97	0.47
6:Ed:292:PRO:HB3	6:Ed:306:LEU:HD13	1.95	0.47
6:Ej:92:GLU:HB2	6:Ej:103:ARG:HB3	1.94	0.47
6:Ek:255:ASP:HB3	6:Ek:258:SER:HB3	1.96	0.47
6:Ek:292:PRO:HB3	6:Ek:306:LEU:HD13	1.95	0.47
6:Ep:88:ILE:HG12	6:Ep:106:ILE:HG23	1.97	0.47
7:Fu:93:PRO:HD3	7:Fu:133:ARG:HA	1.96	0.47
8:Gt:69:ILE:HG21	10:Iy:238:GLU:HB2	1.97	0.47
10:Jd:267:LEU:HD22	10:Je:277:THR:HA	1.95	0.47
10:Jr:267:LEU:HD22	10:Js:277:THR:HA	1.95	0.47
12:Mh:78:ILE:HG12	12:Mh:148:TYR:HB2	1.96	0.47
12:Mm:78:ILE:HG12	12:Mm:148:TYR:HB2	1.96	0.47
12:Mq:78:ILE:HG12	12:Mq:148:TYR:HB2	1.97	0.47
12:Ms:78:ILE:HG12	12:Ms:148:TYR:HB2	1.97	0.47
12:Mt:78:ILE:HG12	12:Mt:148:TYR:HB2	1.97	0.47
12:Mv:78:ILE:HG12	12:Mv:148:TYR:HB2	1.96	0.47
12:Mw:168:VAL:HG12	12:Mw:175:VAL:HA	1.96	0.47
12:Ns:168:VAL:HG12	12:Ns:175:VAL:HA	1.95	0.47
12:Oa:168:VAL:HG12	12:Oa:175:VAL:HA	1.95	0.47
12:Oc:168:VAL:HG12	12:Oc:175:VAL:HA	1.95	0.47
12:Of:78:ILE:HG12	12:Of:148:TYR:HB2	1.97	0.47
13:Oq:285:ILE:HG21	13:Oq:427:ILE:HD11	1.96	0.47
13:Oz:282:LEU:HD21	13:Oz:431:LEU:HD21	1.95	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Pd:385:GLU:HG2	13:Pe:304:VAL:HG22	1.96	0.47
4:Ck:125:LEU:HB2	4:Ck:160:PHE:HB3	1.97	0.47
4:Co:125:LEU:HB2	4:Co:160:PHE:HB3	1.97	0.47
4:Cu:113:GLU:HB2	4:Cu:172:MET:HB3	1.97	0.47
4:Cw:125:LEU:HB2	4:Cw:160:PHE:HB3	1.96	0.47
5:Dl:224:ARG:HH21	6:Ec:368:GLN:HB2	1.79	0.47
5:Dl:250:ILE:HG23	5:Dl:261:VAL:HG22	1.97	0.47
6:Dx:80:PHE:HA	9:Gx:136:VAL:HG21	1.96	0.47
6:Ed:255:ASP:HB3	6:Ed:258:SER:HB3	1.95	0.47
7:Fd:68:ILE:HD11	7:Fe:112:GLN:HE21	1.80	0.47
8:Gd:66:ALA:HB1	8:Gd:75:GLU:HG2	1.97	0.47
8:Gk:154:LEU:HB3	8:Gk:164:TYR:HE1	1.79	0.47
10:Jf:267:LEU:HD22	10:Jg:277:THR:HA	1.95	0.47
10:Jn:267:LEU:HD22	10:Jo:277:THR:HA	1.95	0.47
11:Km:104:VAL:HG23	11:Km:105:ARG:HG2	1.97	0.47
12:Mf:78:ILE:HG12	12:Mf:148:TYR:HB2	1.97	0.47
12:Mi:161:VAL:HG12	12:Mi:188:ILE:HD11	1.96	0.47
12:Mm:87:GLN:HE21	12:Mn:94:TRP:HB3	1.78	0.47
12:Mx:78:ILE:HG12	12:Mx:148:TYR:HB2	1.97	0.47
12:Nf:78:ILE:HG12	12:Nf:148:TYR:HB2	1.97	0.47
12:Ni:78:ILE:HG12	12:Ni:148:TYR:HB2	1.96	0.47
12:Nr:161:VAL:HG12	12:Nr:188:ILE:HD11	1.96	0.47
12:Nx:168:VAL:HG12	12:Nx:175:VAL:HA	1.95	0.47
12:Oa:78:ILE:HG12	12:Oa:148:TYR:HB2	1.97	0.47
12:Od:78:ILE:HG12	12:Od:148:TYR:HB2	1.97	0.47
12:Od:168:VAL:HG12	12:Od:175:VAL:HA	1.95	0.47
12:Oi:168:VAL:HG12	12:Oi:175:VAL:HA	1.95	0.47
13:Oy:399:VAL:HB	13:Oy:447:VAL:HG22	1.96	0.47
13:Pk:309:LYS:HG2	13:Pk:382:ILE:HG12	1.95	0.47
1:Aq:62:LEU:HD12	1:Aq:63:PRO:HD2	1.96	0.47
2:Ba:25:ASN:HD21	2:Ba:37:ASP:HB2	1.80	0.47
3:Bl:19:THR:HG21	3:Bl:406:LEU:HB2	1.97	0.47
3:Bl:353:ASN:HB3	3:Bl:371:SER:HA	1.95	0.47
2:Bw:18:ALA:HB2	2:Bw:59:THR:HG21	1.96	0.47
4:Bx:125:LEU:HB2	4:Bx:160:PHE:HB3	1.95	0.47
4:Cm:231:ALA:HB3	4:Cn:195:LYS:HG3	1.97	0.47
5:Cy:250:ILE:HG23	5:Cy:261:VAL:HG22	1.95	0.47
5:Dd:105:SER:HB2	5:Dd:112:LEU:HD11	1.95	0.47
5:Df:41:VAL:HG23	5:Df:83:VAL:HG21	1.97	0.47
5:Dn:224:ARG:HH21	6:Ee:368:GLN:HB2	1.79	0.47
5:Dt:41:VAL:HG23	5:Dt:83:VAL:HG21	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dt:250:ILE:HG23	5:Dt:261:VAL:HG22	1.95	0.47
6:Eb:292:PRO:HB3	6:Eb:306:LEU:HD13	1.96	0.47
6:En:292:PRO:HB3	6:En:306:LEU:HD13	1.96	0.47
6:Er:249:PRO:HG2	6:Er:252:SER:HB3	1.97	0.47
7:Fv:31:PRO:HB3	7:Fv:156:VAL:HG21	1.97	0.47
8:Gr:116:ARG:HD3	8:Gr:149:GLN:HE22	1.80	0.47
10:Je:240:TYR:HE1	10:Je:249:GLN:HG3	1.78	0.47
10:Jl:267:LEU:HD22	10:Jm:277:THR:HA	1.95	0.47
10:Jp:267:LEU:HD22	10:Jq:277:THR:HA	1.95	0.47
11:Kb:104:VAL:HG23	11:Kb:105:ARG:HG2	1.96	0.47
11:Kk:79:GLU:H	11:Kk:86:GLY:HA3	1.80	0.47
11:Kr:71:GLY:HA2	11:Ks:99:ARG:HG2	1.96	0.47
11:Lp:104:VAL:HG23	11:Lp:105:ARG:HG2	1.96	0.47
12:Mo:78:ILE:HG12	12:Mo:148:TYR:HB2	1.96	0.47
12:Mz:78:ILE:HG12	12:Mz:148:TYR:HB2	1.97	0.47
12:Nc:78:ILE:HG12	12:Nc:148:TYR:HB2	1.97	0.47
12:Ne:78:ILE:HG12	12:Ne:148:TYR:HB2	1.97	0.47
12:No:168:VAL:HG12	12:No:175:VAL:HA	1.95	0.47
12:Ns:161:VAL:HG12	12:Ns:188:ILE:HD11	1.96	0.47
12:Oc:78:ILE:HG12	12:Oc:148:TYR:HB2	1.97	0.47
12:Og:78:ILE:HG12	12:Og:148:TYR:HB2	1.97	0.47
12:Og:168:VAL:HG12	12:Og:175:VAL:HA	1.95	0.47
12:Oh:168:VAL:HG12	12:Oh:175:VAL:HA	1.95	0.47
13:Oj:295:VAL:HG12	13:Oj:397:VAL:HG22	1.97	0.47
13:Os:434:THR:HG23	13:Ot:294:GLN:HG2	1.96	0.47
13:Pc:295:VAL:HG12	13:Pc:397:VAL:HG22	1.95	0.47
1:Aa:148:ILE:HD12	1:Aa:161:ARG:HD2	1.97	0.47
1:Aa:185:LEU:HB3	1:Aa:193:TYR:HB3	1.97	0.47
1:Ab:150:ILE:HG22	1:Ab:160:VAL:HG12	1.96	0.47
1:Ad:254:MET:HB2	1:Ah:238:GLN:HE22	1.79	0.47
1:Ai:209:LEU:HD23	1:Ai:210:ASP:HB2	1.97	0.47
1:Aj:96:MET:HG3	1:Aj:221:GLU:HB2	1.97	0.47
1:Aq:50:ASN:HB3	1:Aq:66:LEU:H	1.80	0.47
1:Aq:226:ASN:HB3	1:Aq:229:GLU:HB3	1.96	0.47
1:As:176:THR:HG23	1:As:207:PRO:HG3	1.97	0.47
1:Az:36:LYS:HB3	1:Az:225:VAL:HG22	1.97	0.47
3:Be:130:VAL:HG12	3:Be:137:VAL:HG22	1.97	0.47
3:Be:131:ASN:HB2	3:Be:135:GLY:H	1.79	0.47
4:Bx:198:THR:HB	4:Cw:234:GLN:HA	1.97	0.47
4:By:231:ALA:HB3	4:Bz:195:LYS:HG3	1.96	0.47
4:Ch:125:LEU:HB2	4:Ch:160:PHE:HB3	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ci:125:LEU:HB2	4:Ci:160:PHE:HB3	1.97	0.47
4:Ck:227:ARG:HH22	4:Cl:221:ASN:HB3	1.79	0.47
4:Cn:125:LEU:HB2	4:Cn:160:PHE:HB3	1.96	0.47
4:Cs:113:GLU:HB2	4:Cs:172:MET:HB3	1.97	0.47
5:Dr:41:VAL:HG23	5:Dr:83:VAL:HG21	1.96	0.47
5:Ds:41:VAL:HG23	5:Ds:83:VAL:HG21	1.96	0.47
5:Dw:41:VAL:HG23	5:Dw:83:VAL:HG21	1.96	0.47
6:El:34:ILE:HD11	6:El:100:MET:HB2	1.97	0.47
6:Em:361:PRO:HB2	7:Ff:148:ARG:HD2	1.95	0.47
6:Eq:292:PRO:HB3	6:Eq:306:LEU:HD13	1.95	0.47
6:Er:157:LEU:HA	6:Er:161:SER:HB2	1.97	0.47
6:Er:292:PRO:HB3	6:Er:306:LEU:HD13	1.96	0.47
6:Et:157:LEU:HA	6:Et:161:SER:HB2	1.97	0.47
6:Ev:153:ILE:HG21	6:Ev:195:MET:HE1	1.95	0.47
7:Ff:184:ILE:HG12	7:Ff:286:VAL:HG22	1.95	0.47
7:Fi:116:TYR:HE2	8:Gi:198:GLU:HB3	1.80	0.47
7:Fp:184:ILE:HG12	7:Fp:286:VAL:HG22	1.95	0.47
8:Gi:82:LEU:HD23	8:Gi:88:VAL:HG21	1.96	0.47
8:Gj:69:ILE:HG21	10:Jo:238:GLU:HB2	1.97	0.47
8:Gk:82:LEU:HD23	8:Gk:88:VAL:HG21	1.96	0.47
8:Go:82:LEU:HD23	8:Go:88:VAL:HG21	1.96	0.47
8:Gw:82:LEU:HD23	8:Gw:88:VAL:HG21	1.96	0.47
10:Ju:240:TYR:HE1	10:Ju:249:GLN:HG3	1.80	0.47
11:Ka:65:LEU:HD21	11:Ka:119:LEU:HB2	1.97	0.47
11:Kh:71:GLY:HA2	11:Ki:99:ARG:HG2	1.97	0.47
11:Kj:79:GLU:H	11:Kj:86:GLY:HA3	1.79	0.47
11:Km:79:GLU:H	11:Km:86:GLY:HA3	1.78	0.47
11:Le:104:VAL:HG23	11:Le:105:ARG:HG2	1.97	0.47
12:Mk:78:ILE:HG12	12:Mk:148:TYR:HB2	1.97	0.47
12:Nc:168:VAL:HG12	12:Nc:175:VAL:HA	1.96	0.47
12:Ng:78:ILE:HG12	12:Ng:148:TYR:HB2	1.97	0.47
12:Nh:78:ILE:HG12	12:Nh:148:TYR:HB2	1.97	0.47
12:Nk:78:ILE:HG12	12:Nk:148:TYR:HB2	1.97	0.47
12:Nk:168:VAL:HG12	12:Nk:175:VAL:HA	1.95	0.47
12:Nl:78:ILE:HG12	12:Nl:148:TYR:HB2	1.96	0.47
12:Nm:168:VAL:HG12	12:Nm:175:VAL:HA	1.95	0.47
12:Nv:161:VAL:HG12	12:Nv:188:ILE:HD11	1.95	0.47
12:Ny:78:ILE:HG12	12:Ny:148:TYR:HB2	1.97	0.47
12:Ob:78:ILE:HG12	12:Ob:148:TYR:HB2	1.97	0.47
12:Oc:161:VAL:HG12	12:Oc:188:ILE:HD11	1.95	0.47
12:Od:161:VAL:HG12	12:Od:188:ILE:HD11	1.95	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Oe:78:ILE:HG12	12:Oe:148:TYR:HB2	1.97	0.47
12:Oe:168:VAL:HG12	12:Oe:175:VAL:HA	1.95	0.47
12:Of:168:VAL:HG12	12:Of:175:VAL:HA	1.95	0.47
12:Og:161:VAL:HG12	12:Og:188:ILE:HD11	1.95	0.47
12:Oh:161:VAL:HG12	12:Oh:188:ILE:HD11	1.95	0.47
12:Oi:161:VAL:HG12	12:Oi:188:ILE:HD11	1.95	0.47
13:On:324:LEU:HB3	13:On:371:GLU:HB3	1.96	0.47
13:Ph:309:LYS:HG3	13:Ph:382:ILE:HG12	1.97	0.47
13:Pp:324:LEU:HB2	13:Pp:371:GLU:HB2	1.97	0.47
1:Af:239:ARG:HH21	3:Bq:427:GLN:HB2	1.79	0.47
1:Al:10:THR:HG21	1:Av:86:VAL:HG13	1.97	0.47
4:Bx:231:ALA:HB3	4:By:195:LYS:HG3	1.96	0.47
4:Bz:129:ASN:HB2	4:Bz:156:ASN:HB3	1.97	0.47
4:Ch:227:ARG:HH22	4:Ci:221:ASN:HB3	1.79	0.47
4:Cn:34:THR:HG21	6:Ed:247:PRO:HB2	1.97	0.47
5:Dj:250:ILE:HG23	5:Dj:261:VAL:HG22	1.96	0.47
5:Dn:41:VAL:HG23	5:Dn:83:VAL:HG21	1.97	0.47
5:Du:41:VAL:HG23	5:Du:83:VAL:HG21	1.96	0.47
6:Ek:35:VAL:HG23	6:Ek:245:ARG:HG3	1.96	0.47
6:Ep:249:PRO:HG2	6:Ep:252:SER:HB3	1.96	0.47
6:Et:262:TRP:HA	6:Et:267:GLY:HA3	1.97	0.47
7:Ez:83:THR:HG22	7:Ez:111:LYS:HA	1.95	0.47
8:Fy:82:LEU:HD23	8:Fy:88:VAL:HG21	1.96	0.47
8:Fz:69:ILE:HG21	10:Je:238:GLU:HB2	1.96	0.47
8:Gb:192:LEU:HD12	8:Gb:196:MET:HE2	1.97	0.47
10:Iy:240:TYR:HE1	10:Iy:249:GLN:HG3	1.80	0.47
11:Ko:104:VAL:HG23	11:Ko:105:ARG:HG2	1.97	0.47
11:Kp:79:GLU:H	11:Kp:86:GLY:HA3	1.79	0.47
11:Ks:104:VAL:HG23	11:Ks:105:ARG:HG2	1.97	0.47
12:Me:161:VAL:HG12	12:Me:188:ILE:HD11	1.96	0.47
12:Nq:78:ILE:HG12	12:Nq:148:TYR:HB2	1.96	0.47
12:Nv:78:ILE:HG12	12:Nv:148:TYR:HB2	1.97	0.47
12:Nz:161:VAL:HG12	12:Nz:188:ILE:HD11	1.96	0.47
12:Nz:168:VAL:HG12	12:Nz:175:VAL:HA	1.96	0.47
13:Os:385:GLU:HG2	13:Ot:304:VAL:HG13	1.97	0.47
1:Au:243:MET:HE1	1:Av:231:LEU:HG	1.97	0.47
1:Aw:44:LEU:HD22	1:Az:86:VAL:HG11	1.97	0.47
3:Bm:66:GLN:HB3	3:Bm:68:HIS:HD2	1.80	0.47
4:Cc:231:ALA:HB3	4:Cd:195:LYS:HG3	1.96	0.47
4:Cg:231:ALA:HB3	4:Ch:195:LYS:HG3	1.97	0.47
4:Cu:227:ARG:HH22	4:Cv:221:ASN:HB3	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dc:91:ALA:HB1	5:Dc:174:ASN:HD21	1.79	0.47
5:Dn:250:ILE:HG23	5:Dn:261:VAL:HG22	1.96	0.47
6:Dz:93:ARG:HG2	6:Dz:102:VAL:HG23	1.97	0.47
6:Ee:255:ASP:HB3	6:Ee:258:SER:HB3	1.96	0.47
6:El:292:PRO:HB3	6:El:306:LEU:HD13	1.96	0.47
6:Eo:292:PRO:HB3	6:Eo:306:LEU:HD13	1.96	0.47
6:Et:292:PRO:HB3	6:Et:306:LEU:HD13	1.96	0.47
7:Fq:25:VAL:HG13	7:Fq:149:ILE:HA	1.97	0.47
8:Ga:82:LEU:HD23	8:Ga:88:VAL:HG21	1.96	0.47
11:Ka:79:GLU:H	11:Ka:86:GLY:HA3	1.80	0.47
11:Kc:104:VAL:HG23	11:Kc:105:ARG:HG2	1.97	0.47
11:Kd:77:ARG:HH11	11:Ke:92:GLY:HA3	1.79	0.47
11:Lg:104:VAL:HG23	11:Lg:105:ARG:HG2	1.97	0.47
11:Li:65:LEU:HD21	11:Li:119:LEU:HB2	1.95	0.47
12:Ng:168:VAL:HG12	12:Ng:175:VAL:HA	1.96	0.47
12:Nj:78:ILE:HG12	12:Nj:148:TYR:HB2	1.97	0.47
12:No:78:ILE:HG12	12:No:148:TYR:HB2	1.96	0.47
12:Nw:78:ILE:HG12	12:Nw:148:TYR:HB2	1.96	0.47
12:Ny:168:VAL:HG12	12:Ny:175:VAL:HA	1.95	0.47
13:Op:384:HIS:HB3	13:Oq:305:GLU:HB3	1.96	0.47
13:Or:274:LEU:HD23	13:Or:297:ILE:HD11	1.97	0.47
13:Pn:384:HIS:HB3	13:Po:305:GLU:HB3	1.97	0.47
13:Pq:399:VAL:HB	13:Pq:447:VAL:HG22	1.96	0.47
1:Aq:36:LYS:HB3	1:Aq:225:VAL:HG22	1.96	0.47
1:Au:97:ILE:HG12	1:Au:101:GLY:HA3	1.96	0.47
1:Ax:1:MET:HE2	1:Ax:255:MET:HE2	1.96	0.47
4:Bx:199:LEU:HD12	4:Cv:119:LYS:HB3	1.96	0.47
4:By:125:LEU:HB2	4:By:160:PHE:HB3	1.96	0.47
4:Cl:125:LEU:HB2	4:Cl:160:PHE:HB3	1.97	0.47
4:Cn:227:ARG:HH22	4:Co:221:ASN:HB3	1.80	0.47
4:Cs:131:ALA:HA	4:Ct:158:ASN:HA	1.97	0.47
4:Cs:240:THR:HG22	4:Cs:244:MET:HE2	1.97	0.47
5:Dq:41:VAL:HG23	5:Dq:83:VAL:HG21	1.97	0.47
6:Ea:249:PRO:HG2	6:Ea:252:SER:HB3	1.97	0.47
6:Ef:326:PHE:HD2	6:Ef:328:ASP:H	1.62	0.47
6:Ej:227:PHE:HD1	6:Ej:234:GLU:HA	1.80	0.47
6:Em:292:PRO:HB3	6:Em:306:LEU:HD13	1.96	0.47
6:Ev:262:TRP:HA	6:Ev:267:GLY:HA3	1.97	0.47
7:Fc:185:LEU:HD22	7:Fc:199:SER:HB3	1.97	0.47
8:Gf:69:ILE:HG21	10:Jk:238:GLU:HB2	1.96	0.47
10:Jq:240:TYR:HE1	10:Jq:249:GLN:HG3	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Kk:104:VAL:HG23	11:Kk:105:ARG:HG2	1.97	0.47
11:Kv:104:VAL:HG23	11:Kv:105:ARG:HG2	1.97	0.47
12:Mh:168:VAL:HG12	12:Mh:175:VAL:HA	1.95	0.47
12:Mj:168:VAL:HG12	12:Mj:175:VAL:HA	1.96	0.47
12:Ni:168:VAL:HG12	12:Ni:175:VAL:HA	1.96	0.47
12:Nm:78:ILE:HG12	12:Nm:148:TYR:HB2	1.96	0.47
12:Ns:78:ILE:HG12	12:Ns:148:TYR:HB2	1.97	0.47
12:Nu:78:ILE:HG12	12:Nu:148:TYR:HB2	1.97	0.47
12:Nz:78:ILE:HG12	12:Nz:148:TYR:HB2	1.97	0.47
12:Oa:161:VAL:HG12	12:Oa:188:ILE:HD11	1.96	0.47
13:Ol:433:GLY:HA2	13:Om:396:THR:HB	1.97	0.47
13:Ph:432:ILE:HG23	13:Ph:437:TYR:HB3	1.97	0.47
13:Pj:285:ILE:HD13	13:Pk:450:MET:HE3	1.96	0.47
13:Po:429:GLN:HE21	13:Pp:448:LEU:HD13	1.79	0.47
1:Aa:159:SER:HB2	1:Aa:168:ASN:HB3	1.97	0.46
1:Aa:165:GLN:HE21	1:Aa:167:ASP:HB2	1.80	0.46
1:Ah:36:LYS:HB3	1:Ah:225:VAL:HG22	1.98	0.46
1:Ai:55:GLN:HA	1:Ai:61:ARG:HG2	1.97	0.46
1:Ao:45:PHE:HD1	1:Ap:189:GLY:HA3	1.80	0.46
3:Be:406:LEU:HD13	3:Bu:422:VAL:HG13	1.95	0.46
3:Bj:357:LEU:HB3	3:Bj:365:TRP:HB3	1.97	0.46
4:Bx:131:ALA:HA	4:By:158:ASN:HA	1.97	0.46
4:Bz:231:ALA:HB3	4:Ca:195:LYS:HG3	1.96	0.46
4:Ca:227:ARG:HH22	4:Cb:221:ASN:HB3	1.80	0.46
4:Cr:227:ARG:HH22	4:Cs:221:ASN:HB3	1.80	0.46
5:De:250:ILE:HG23	5:De:261:VAL:HG22	1.97	0.46
6:Dz:226:VAL:HB	6:Dz:236:MET:HB3	1.97	0.46
6:Eb:109:TYR:CD1	11:Jx:73:ARG:HD2	2.49	0.46
6:Ef:262:TRP:HA	6:Ef:267:GLY:HA3	1.96	0.46
6:Et:255:ASP:HB3	6:Et:258:SER:HB3	1.97	0.46
11:Kg:104:VAL:HG23	11:Kg:105:ARG:HG2	1.97	0.46
11:Kr:104:VAL:HG23	11:Kr:105:ARG:HG2	1.97	0.46
11:Li:104:VAL:HG23	11:Li:105:ARG:HG2	1.98	0.46
11:Lp:79:GLU:H	11:Lp:86:GLY:HA3	1.80	0.46
12:Md:168:VAL:HG12	12:Md:175:VAL:HA	1.96	0.46
12:Np:78:ILE:HG12	12:Np:148:TYR:HB2	1.97	0.46
13:Or:290:ASN:HA	13:Or:452:PHE:HE2	1.79	0.46
13:Pe:324:LEU:HB3	13:Pe:371:GLU:HB3	1.97	0.46
13:Pg:399:VAL:HG21	13:Pg:431:LEU:HD13	1.96	0.46
1:Aa:32:ILE:HD12	1:Aa:220:LEU:HD13	1.98	0.46
1:Ac:185:LEU:HB3	1:Ac:193:TYR:HB3	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ao:251:VAL:HA	1:Ao:254:MET:HE2	1.97	0.46
4:Bx:221:ASN:HB3	4:Cw:227:ARG:HH22	1.80	0.46
4:Bx:227:ARG:HH22	4:By:221:ASN:HB3	1.80	0.46
4:Cm:113:GLU:HB2	4:Cm:172:MET:HB3	1.96	0.46
4:Cq:234:GLN:HA	4:Cr:198:THR:HB	1.97	0.46
5:Du:250:ILE:HG23	5:Du:261:VAL:HG22	1.96	0.46
6:Eq:223:GLU:HG2	6:Eq:239:THR:HG22	1.96	0.46
8:Fz:116:ARG:HD3	8:Fz:149:GLN:HE22	1.79	0.46
11:Kj:104:VAL:HG23	11:Kj:105:ARG:HG2	1.98	0.46
11:Kq:79:GLU:H	11:Kq:86:GLY:HA3	1.80	0.46
11:Kt:104:VAL:HG23	11:Kt:105:ARG:HG2	1.98	0.46
11:Kz:104:VAL:HG23	11:Kz:105:ARG:HG2	1.98	0.46
11:Ll:104:VAL:HG23	11:Ll:105:ARG:HG2	1.98	0.46
12:Mf:168:VAL:HG12	12:Mf:175:VAL:HA	1.96	0.46
12:Nn:78:ILE:HG12	12:Nn:148:TYR:HB2	1.97	0.46
12:Nu:168:VAL:HG12	12:Nu:175:VAL:HA	1.96	0.46
12:Nx:78:ILE:HG12	12:Nx:148:TYR:HB2	1.97	0.46
12:Nx:161:VAL:HG12	12:Nx:188:ILE:HD11	1.96	0.46
12:Oe:161:VAL:HG12	12:Oe:188:ILE:HD11	1.96	0.46
13:Om:274:LEU:HD11	13:Om:435:VAL:HG13	1.97	0.46
13:Oq:384:HIS:HB3	13:Or:305:GLU:HB3	1.96	0.46
1:Ad:249:SER:HB2	3:Br:433:ILE:HG12	1.97	0.46
1:Aj:10:THR:HG22	1:Ar:88:THR:HG22	1.97	0.46
1:Al:52:PRO:HB2	1:Aw:196:THR:HG21	1.97	0.46
1:Aq:137:LEU:HG	1:Aq:139:PRO:HD2	1.97	0.46
1:Aq:185:LEU:HB3	1:Aq:193:TYR:HB3	1.96	0.46
3:Be:414:GLN:HG3	3:Bg:431:LEU:HD23	1.96	0.46
4:By:227:ARG:HH22	4:Bz:221:ASN:HB3	1.80	0.46
4:Bz:227:ARG:HH22	4:Ca:221:ASN:HB3	1.79	0.46
4:Ca:129:ASN:HB2	4:Ca:156:ASN:HB3	1.97	0.46
4:Cb:227:ARG:HH22	4:Cc:221:ASN:HB3	1.79	0.46
4:Cc:240:THR:HG22	4:Cc:244:MET:HE2	1.97	0.46
4:Co:227:ARG:HH22	4:Cp:221:ASN:HB3	1.80	0.46
4:Cq:227:ARG:HH22	4:Cr:221:ASN:HB3	1.80	0.46
4:Cr:125:LEU:HB2	4:Cr:160:PHE:HB3	1.97	0.46
4:Cv:227:ARG:HH22	4:Cw:221:ASN:HB3	1.80	0.46
5:Cz:250:ILE:HG23	5:Cz:261:VAL:HG22	1.96	0.46
6:Ew:292:PRO:HB3	6:Ew:306:LEU:HD13	1.96	0.46
7:Ey:116:TYR:HE2	8:Fy:198:GLU:HB3	1.80	0.46
7:Fe:93:PRO:HD3	7:Fe:133:ARG:HA	1.97	0.46
7:Fo:93:PRO:HD3	7:Fo:133:ARG:HA	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ja:240:TYR:HE1	10:Ja:249:GLN:HG3	1.80	0.46
10:Jc:240:TYR:HE1	10:Jc:249:GLN:HG3	1.79	0.46
11:Kh:104:VAL:HG23	11:Kh:105:ARG:HG2	1.98	0.46
11:Lc:65:LEU:HD21	11:Lc:119:LEU:HB2	1.97	0.46
11:Lt:104:VAL:HG23	11:Lt:105:ARG:HG2	1.97	0.46
11:Lx:29:TRP:HB3	11:Lx:118:ARG:HE	1.81	0.46
12:Nr:78:ILE:HG12	12:Nr:148:TYR:HB2	1.97	0.46
12:Ob:161:VAL:HG12	12:Ob:188:ILE:HD11	1.96	0.46
12:Of:161:VAL:HG12	12:Of:188:ILE:HD11	1.96	0.46
1:Ab:53:GLY:HA2	1:Ac:198:ALA:HB3	1.96	0.46
1:At:87:GLN:HB2	1:At:220:LEU:HG	1.96	0.46
3:Bf:378:GLU:HB2	3:Bf:381:LYS:HD2	1.98	0.46
3:Bm:380:ASN:HB3	3:Bo:93:LYS:HE3	1.96	0.46
4:Cf:227:ARG:HH22	4:Cg:221:ASN:HB3	1.81	0.46
5:Db:250:ILE:HG23	5:Db:261:VAL:HG22	1.95	0.46
5:Dr:250:ILE:HG23	5:Dr:261:VAL:HG22	1.95	0.46
6:Dx:373:MET:HE3	6:Dx:373:MET:HB2	1.89	0.46
6:Ei:226:VAL:HB	6:Ei:236:MET:HB3	1.97	0.46
6:Eq:249:PRO:HG2	6:Eq:252:SER:HB3	1.97	0.46
7:Fv:68:ILE:HD11	7:Fw:112:GLN:HE21	1.80	0.46
8:Gb:147:ARG:HD3	8:Gb:170:TRP:HB3	1.97	0.46
8:Gd:69:ILE:HG21	10:Ji:238:GLU:HB2	1.97	0.46
8:Gl:116:ARG:HD3	8:Gl:149:GLN:HE22	1.80	0.46
11:Ke:104:VAL:HG23	11:Ke:105:ARG:HG2	1.98	0.46
11:Kf:65:LEU:HD21	11:Kf:119:LEU:HB2	1.98	0.46
11:Kp:104:VAL:HG23	11:Kp:105:ARG:HG2	1.97	0.46
11:Lu:71:GLY:HA2	11:Lv:99:ARG:HG2	1.98	0.46
11:Lz:71:GLY:HA2	11:Ma:99:ARG:HG2	1.97	0.46
12:Nt:78:ILE:HG12	12:Nt:148:TYR:HB2	1.97	0.46
13:Ok:396:THR:HG22	13:Ok:444:LEU:HB2	1.96	0.46
13:Ot:431:LEU:HB3	13:Ot:445:LEU:HD11	1.96	0.46
13:Pb:320:SER:HB3	13:Pb:375:ASN:HB2	1.96	0.46
13:Pk:290:ASN:HA	13:Pk:452:PHE:HE2	1.81	0.46
1:Ag:115:SER:HB2	1:Ag:192:LEU:HD23	1.98	0.46
1:As:98:GLU:O	1:As:213:GLY:HA3	2.15	0.46
1:Av:47:GLN:HB3	1:Av:68:LEU:HB2	1.97	0.46
1:Av:102:PHE:HB3	1:Av:114:TYR:HB3	1.98	0.46
4:Ce:113:GLU:HB2	4:Ce:172:MET:HB3	1.97	0.46
4:Cj:113:GLU:HB2	4:Cj:172:MET:HB3	1.97	0.46
4:Cr:136:LEU:HD13	4:Cs:154:LEU:HD13	1.98	0.46
4:Ct:227:ARG:HH22	4:Cu:221:ASN:HB3	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dh:91:ALA:HB1	5:Dh:174:ASN:HD21	1.79	0.46
5:Ds:250:ILE:HG23	5:Ds:261:VAL:HG22	1.96	0.46
6:Eb:326:PHE:HD2	6:Eb:328:ASP:H	1.63	0.46
6:Eh:292:PRO:HB3	6:Eh:306:LEU:HD13	1.97	0.46
6:Ek:83:HIS:HE2	9:Hk:138:GLU:HB2	1.80	0.46
6:Eq:121:LYS:HG2	6:Eq:163:SER:HA	1.97	0.46
6:Ev:227:PHE:HD1	6:Ev:234:GLU:HA	1.80	0.46
7:Fl:111:LYS:HD2	8:Gj:197:PRO:HD3	1.96	0.46
7:Fm:93:PRO:HD3	7:Fm:133:ARG:HA	1.98	0.46
8:Gk:207:ARG:HD3	8:Gk:210:PHE:HA	1.97	0.46
11:Kb:29:TRP:HB3	11:Kb:118:ARG:HE	1.81	0.46
11:Ks:65:LEU:HD21	11:Ks:119:LEU:HB2	1.97	0.46
11:Ku:104:VAL:HG23	11:Ku:105:ARG:HG2	1.98	0.46
11:Ky:104:VAL:HG23	11:Ky:105:ARG:HG2	1.98	0.46
11:Lb:104:VAL:HG23	11:Lb:105:ARG:HG2	1.98	0.46
11:Ls:104:VAL:HG23	11:Ls:105:ARG:HG2	1.98	0.46
1:Ae:243:MET:HB3	1:Am:26:LEU:HD11	1.97	0.46
1:An:2:GLN:HE22	1:Ax:236:GLU:HG3	1.80	0.46
1:As:144:PRO:HG2	1:As:147:ALA:HB2	1.98	0.46
1:As:166:GLN:HE21	1:As:166:GLN:HB3	1.60	0.46
3:Be:21:ASN:HA	3:Bu:55:GLY:H	1.80	0.46
3:Bg:4:VAL:HG11	3:Bh:21:ASN:HA	1.98	0.46
3:Bq:411:ARG:CZ	3:Bs:427:GLN:HB3	2.46	0.46
4:Cd:227:ARG:HH22	4:Ce:221:ASN:HB3	1.79	0.46
4:Co:234:GLN:HA	4:Cp:198:THR:HB	1.98	0.46
5:Df:250:ILE:HG23	5:Df:261:VAL:HG22	1.96	0.46
5:Dg:105:SER:HB2	5:Dg:112:LEU:HD11	1.97	0.46
5:Do:205:LEU:HD11	5:Do:236:ILE:HD11	1.97	0.46
5:Dv:250:ILE:HG23	5:Dv:261:VAL:HG22	1.96	0.46
6:Eb:201:ASP:HB3	6:Eb:221:ALA:HB3	1.96	0.46
6:Ed:88:ILE:HG23	6:Ed:106:ILE:HG12	1.98	0.46
6:Eg:34:ILE:HD11	6:Eg:100:MET:HB2	1.98	0.46
7:Ex:68:ILE:HD11	7:Ey:112:GLN:HE21	1.80	0.46
7:Fe:185:LEU:HD22	7:Fe:199:SER:HB3	1.98	0.46
7:Fg:116:TYR:HE2	8:Gg:198:GLU:HB3	1.81	0.46
7:Fw:93:PRO:HD3	7:Fw:133:ARG:HA	1.96	0.46
8:Fx:69:ILE:HG21	10:Jc:238:GLU:HB2	1.97	0.46
8:Gd:147:ARG:HD3	8:Gd:170:TRP:HB3	1.97	0.46
8:Gr:69:ILE:HG21	10:Ja:238:GLU:HB2	1.98	0.46
11:Ka:104:VAL:HG23	11:Ka:105:ARG:HG2	1.98	0.46
11:Kl:104:VAL:HG23	11:Kl:105:ARG:HG2	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Ku:29:TRP:HB3	11:Ku:118:ARG:HE	1.81	0.46
11:La:104:VAL:HG23	11:La:105:ARG:HG2	1.98	0.46
11:Le:65:LEU:HD21	11:Le:119:LEU:HB2	1.96	0.46
11:Lg:77:ARG:HH11	11:Lh:92:GLY:HA3	1.80	0.46
11:Lh:104:VAL:HG23	11:Lh:105:ARG:HG2	1.98	0.46
11:Lm:79:GLU:H	11:Lm:86:GLY:HA3	1.80	0.46
12:Me:137:TRP:HB3	12:Mf:125:VAL:HB	1.98	0.46
12:Mu:137:TRP:HB3	12:Mv:125:VAL:HB	1.98	0.46
12:Nw:168:VAL:HG12	12:Nw:175:VAL:HA	1.96	0.46
13:Pa:270:GLN:HG3	13:Pa:299:LEU:HD11	1.98	0.46
1:Ag:5:LEU:HD11	1:Ag:255:MET:HE1	1.98	0.46
3:Bl:332:LEU:HD11	3:Bl:340:ASN:HB3	1.97	0.46
2:Bw:166:LEU:HD21	2:Bw:199:ILE:HD11	1.97	0.46
4:Cb:125:LEU:HB2	4:Cb:160:PHE:HB3	1.98	0.46
4:Co:113:GLU:HB2	4:Co:172:MET:HB3	1.97	0.46
5:Cz:205:LEU:HD11	5:Cz:236:ILE:HD11	1.98	0.46
5:Ds:91:ALA:HB1	5:Ds:174:ASN:HD21	1.80	0.46
6:Em:326:PHE:HD2	6:Em:328:ASP:H	1.64	0.46
8:Gd:192:LEU:HD12	8:Gd:196:MET:HE2	1.97	0.46
8:Gl:192:LEU:HD12	8:Gl:196:MET:HE2	1.96	0.46
8:Gm:82:LEU:HD23	8:Gm:88:VAL:HG21	1.96	0.46
11:Kd:104:VAL:HG23	11:Kd:105:ARG:HG2	1.98	0.46
11:Ki:104:VAL:HG23	11:Ki:105:ARG:HG2	1.98	0.46
11:Lm:104:VAL:HG23	11:Lm:105:ARG:HG2	1.98	0.46
11:Lv:65:LEU:HD21	11:Lv:119:LEU:HB2	1.98	0.46
11:Ly:104:VAL:HG23	11:Ly:105:ARG:HG2	1.97	0.46
12:Nh:137:TRP:HB3	12:Ni:125:VAL:HB	1.98	0.46
13:Oy:270:GLN:HE22	13:Oz:264:GLN:HG3	1.81	0.46
13:Pd:304:VAL:HB	13:Pd:387:LYS:HB2	1.97	0.46
13:Pe:297:ILE:HG23	13:Pe:392:ILE:HG23	1.98	0.46
3:Bg:127:GLY:HA3	3:Bg:145:ILE:HD11	1.98	0.46
3:Bp:403:LEU:HD23	3:Bp:406:LEU:HD21	1.96	0.46
2:Bw:169:LEU:HD23	2:Bw:174:LEU:HD21	1.98	0.46
4:Ce:227:ARG:HH22	4:Cf:221:ASN:HB3	1.80	0.46
4:Cf:125:LEU:HB2	4:Cf:160:PHE:HB3	1.97	0.46
4:Cg:125:LEU:HB2	4:Cg:160:PHE:HB3	1.97	0.46
4:Cu:234:GLN:HA	4:Cv:198:THR:HB	1.98	0.46
5:Cx:250:ILE:HG23	5:Cx:261:VAL:HG22	1.96	0.46
5:Dq:250:ILE:HG23	5:Dq:261:VAL:HG22	1.97	0.46
6:Ea:167:VAL:HG21	6:Ea:191:ALA:HB2	1.98	0.46
6:Ec:105:ARG:HG3	9:Ic:134:GLN:HE22	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:El:262:TRP:HA	6:El:267:GLY:HA3	1.97	0.46
6:Em:358:VAL:HG12	6:Em:360:GLN:H	1.81	0.46
6:Er:92:GLU:HB2	6:Er:103:ARG:HB3	1.98	0.46
7:Fi:185:LEU:HD22	7:Fi:199:SER:HB3	1.97	0.46
8:Fx:66:ALA:HB1	8:Fx:75:GLU:HG2	1.97	0.46
8:Gv:192:LEU:HD12	8:Gv:196:MET:HE2	1.98	0.46
11:Ko:65:LEU:HD21	11:Ko:119:LEU:HB2	1.98	0.46
11:Lf:65:LEU:HD21	11:Lf:119:LEU:HB2	1.98	0.46
11:Li:79:GLU:H	11:Li:86:GLY:HA3	1.81	0.46
11:Ln:29:TRP:HB3	11:Ln:118:ARG:HE	1.81	0.46
11:Lu:104:VAL:HG23	11:Lu:105:ARG:HG2	1.97	0.46
11:Lv:104:VAL:HG23	11:Lv:105:ARG:HG2	1.98	0.46
12:Ml:137:TRP:HB3	12:Mm:125:VAL:HB	1.98	0.46
12:Na:137:TRP:HB3	12:Nb:125:VAL:HB	1.98	0.46
12:Of:137:TRP:HB3	12:Og:125:VAL:HB	1.98	0.46
13:Ot:309:LYS:HG3	13:Ot:382:ILE:HG12	1.98	0.46
13:Pc:274:LEU:HB3	13:Pc:295:VAL:HG21	1.98	0.46
13:Pc:290:ASN:HA	13:Pc:452:PHE:HE2	1.81	0.46
1:Ai:148:ILE:HB	1:Ai:161:ARG:HB3	1.98	0.46
1:Ar:46:TYR:HB2	2:Bv:178:VAL:HA	1.96	0.46
4:Cl:227:ARG:HH22	4:Cm:221:ASN:HB3	1.80	0.46
4:Cm:125:LEU:HB2	4:Cm:160:PHE:HB3	1.97	0.46
5:Db:205:LEU:HD11	5:Db:236:ILE:HD11	1.97	0.46
5:Dc:103:VAL:HB	5:Dc:137:LEU:HD21	1.98	0.46
5:Dj:91:ALA:HB1	5:Dj:174:ASN:HD21	1.80	0.46
6:Dz:167:VAL:HG21	6:Dz:191:ALA:HB2	1.98	0.46
6:Ea:292:PRO:HB3	6:Ea:306:LEU:HD13	1.97	0.46
6:Eb:227:PHE:HD1	6:Eb:234:GLU:HA	1.81	0.46
6:Eo:157:LEU:HA	6:Eo:161:SER:HB2	1.98	0.46
7:Ey:93:PRO:HD3	7:Ey:133:ARG:HA	1.96	0.46
8:Gn:69:ILE:HG21	10:Js:238:GLU:HB2	1.97	0.46
11:Ki:29:TRP:HB3	11:Ki:118:ARG:HE	1.81	0.46
12:Ne:137:TRP:HB3	12:Nf:125:VAL:HB	1.98	0.46
12:Nv:137:TRP:HB3	12:Nw:125:VAL:HB	1.98	0.46
12:Oe:137:TRP:HB3	12:Of:125:VAL:HB	1.98	0.46
13:On:267:GLU:HG2	13:On:299:LEU:HD23	1.98	0.46
13:Ot:399:VAL:HB	13:Ot:447:VAL:HG22	1.98	0.46
1:Ak:9:LYS:HB3	1:Ao:232:VAL:HG11	1.98	0.46
1:Ao:102:PHE:HB3	1:Ao:114:TYR:HB3	1.98	0.46
4:Cc:227:ARG:HH22	4:Cd:221:ASN:HB3	1.80	0.46
4:Cm:234:GLN:HA	4:Cn:198:THR:HB	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Cr:234:GLN:HA	4:Cs:198:THR:HB	1.98	0.46
5:Da:103:VAL:HB	5:Da:137:LEU:HD21	1.98	0.46
6:Ec:358:VAL:HG12	6:Ec:360:GLN:H	1.81	0.46
6:Ej:34:ILE:HD11	6:Ej:100:MET:HB2	1.98	0.46
6:Ek:249:PRO:HG2	6:Ek:252:SER:HB3	1.97	0.46
6:Es:292:PRO:HB3	6:Es:306:LEU:HD13	1.97	0.46
7:Fd:31:PRO:HB3	7:Fd:156:VAL:HG21	1.97	0.46
7:Fs:25:VAL:HG13	7:Fs:149:ILE:HA	1.98	0.46
8:Gg:154:LEU:HB3	8:Gg:164:TYR:HE1	1.81	0.46
11:Lo:29:TRP:HB3	11:Lo:118:ARG:HE	1.81	0.46
11:Lw:104:VAL:HG23	11:Lw:105:ARG:HG2	1.98	0.46
11:Lx:104:VAL:HG23	11:Lx:105:ARG:HG2	1.98	0.46
12:Md:125:VAL:HB	12:Oi:137:TRP:HB3	1.98	0.46
12:No:137:TRP:HB3	12:Np:125:VAL:HB	1.98	0.46
12:Ny:137:TRP:HB3	12:Nz:125:VAL:HB	1.98	0.46
12:Od:137:TRP:HB3	12:Oe:125:VAL:HB	1.98	0.46
13:Ok:324:LEU:HB3	13:Ok:371:GLU:HB2	1.98	0.46
13:Pj:399:VAL:HB	13:Pj:447:VAL:HG22	1.97	0.46
13:Po:298:GLU:HB2	13:Po:394:ARG:HB3	1.96	0.46
1:Ag:49:ILE:HB	1:Ag:66:LEU:HB3	1.98	0.45
1:Ai:150:ILE:HG12	1:Ai:160:VAL:HG12	1.97	0.45
4:Cd:125:LEU:HB2	4:Cd:160:PHE:HB3	1.98	0.45
6:Eb:59:ALA:HB2	6:Eb:110:PRO:HG3	1.97	0.45
6:Ee:78:TYR:HD2	6:Ee:88:ILE:HB	1.82	0.45
6:Ek:226:VAL:HB	6:Ek:236:MET:HB3	1.98	0.45
6:Er:34:ILE:HD11	6:Er:100:MET:HB2	1.97	0.45
7:Fe:25:VAL:HG13	7:Fe:149:ILE:HA	1.98	0.45
7:Fk:64:ALA:HB2	7:Fk:172:LEU:HD22	1.98	0.45
8:Gp:192:LEU:HD12	8:Gp:196:MET:HE2	1.98	0.45
11:Kf:29:TRP:HB3	11:Kf:118:ARG:HE	1.81	0.45
11:Ko:29:TRP:HB3	11:Ko:118:ARG:HE	1.82	0.45
11:Lh:29:TRP:HB3	11:Lh:118:ARG:HE	1.81	0.45
11:Lm:29:TRP:HB3	11:Lm:118:ARG:HE	1.81	0.45
11:Ln:65:LEU:HD21	11:Ln:119:LEU:HB2	1.97	0.45
11:Lq:29:TRP:HB3	11:Lq:118:ARG:HE	1.81	0.45
12:Mg:137:TRP:HB3	12:Mh:125:VAL:HB	1.98	0.45
12:Mk:137:TRP:HB3	12:Ml:125:VAL:HB	1.98	0.45
12:Mq:137:TRP:HB3	12:Mr:125:VAL:HB	1.98	0.45
12:Mt:137:TRP:HB3	12:Mu:125:VAL:HB	1.98	0.45
12:Mv:137:TRP:HB3	12:Mw:125:VAL:HB	1.99	0.45
12:Nw:137:TRP:HB3	12:Nx:125:VAL:HB	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Oj:438:SER:HB3	13:Ok:394:ARG:HH12	1.81	0.45
13:Op:304:VAL:HB	13:Op:387:LYS:HB2	1.98	0.45
13:Ot:326:ASP:HB3	13:Ot:369:HIS:HB3	1.96	0.45
13:Ov:324:LEU:HB3	13:Ov:371:GLU:HB3	1.97	0.45
13:Pj:320:SER:HB3	13:Pj:375:ASN:HB3	1.97	0.45
13:Pn:397:VAL:HG21	13:Pn:435:VAL:HG11	1.98	0.45
1:Ai:137:LEU:HG	1:Ai:139:PRO:HD2	1.99	0.45
1:Ak:165:GLN:HE22	1:Ak:167:ASP:HB3	1.80	0.45
1:Bb:26:LEU:HD21	1:Bb:227:VAL:HG12	1.99	0.45
2:Bc:149:ARG:HE	2:Bc:155:ALA:HA	1.81	0.45
2:Bd:11:GLY:HA3	2:Bd:228:GLN:HE22	1.80	0.45
4:Bz:240:THR:HG22	4:Bz:244:MET:HE2	1.99	0.45
4:Cc:129:ASN:HB2	4:Cc:156:ASN:HB3	1.98	0.45
4:Ci:227:ARG:HH22	4:Cj:221:ASN:HB3	1.80	0.45
4:Cj:227:ARG:HH22	4:Ck:221:ASN:HB3	1.80	0.45
4:Cl:231:ALA:HB3	4:Cm:195:LYS:HG3	1.98	0.45
5:Da:250:ILE:HG23	5:Da:261:VAL:HG22	1.96	0.45
5:Dm:103:VAL:HB	5:Dm:137:LEU:HD21	1.98	0.45
5:Dv:76:LYS:HD3	5:Dv:76:LYS:HA	1.74	0.45
5:Dw:250:ILE:HG23	5:Dw:261:VAL:HG22	1.97	0.45
7:Ey:221:VAL:HB	7:Ey:261:VAL:HG12	1.98	0.45
7:Fk:25:VAL:HG13	7:Fk:149:ILE:HA	1.98	0.45
7:Fs:249:PHE:HB3	7:Fs:254:LEU:HD23	1.97	0.45
8:Gh:147:ARG:HD3	8:Gh:170:TRP:HB3	1.97	0.45
11:Lr:104:VAL:HG23	11:Lr:105:ARG:HG2	1.98	0.45
11:Ls:79:GLU:H	11:Ls:86:GLY:HA3	1.81	0.45
12:Md:137:TRP:HB3	12:Me:125:VAL:HB	1.99	0.45
12:Mn:137:TRP:HB3	12:Mo:125:VAL:HB	1.98	0.45
12:Nq:137:TRP:HB3	12:Nr:125:VAL:HB	1.98	0.45
12:Ob:137:TRP:HB3	12:Oc:125:VAL:HB	1.99	0.45
13:Or:308:ARG:HB2	13:Or:383:SER:HB3	1.98	0.45
13:Ow:433:GLY:HA3	13:Ox:398:ALA:HB2	1.97	0.45
13:Pk:432:ILE:HG23	13:Pk:437:TYR:HB3	1.98	0.45
1:Aa:49:ILE:HB	1:Aa:66:LEU:HB3	1.99	0.45
1:Ab:3:PRO:HA	1:Ak:85:ASN:HD22	1.82	0.45
1:Aw:60:THR:HG21	1:Ay:135:TYR:HD1	1.81	0.45
2:Ba:82:ILE:HD11	2:Ba:88:ILE:HG13	1.98	0.45
1:Bb:66:LEU:HA	2:Bc:61:ARG:HH12	1.80	0.45
3:Bl:433:ILE:HG23	3:Bm:421:GLU:HG2	1.99	0.45
3:Br:357:LEU:HB3	3:Br:365:TRP:HB3	1.98	0.45
4:Bx:113:GLU:HB2	4:Bx:172:MET:HB3	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:By:240:THR:HG22	4:By:244:MET:HE2	1.98	0.45
4:Cb:107:ILE:HA	4:Cb:221:ASN:HD21	1.81	0.45
4:Ce:234:GLN:HA	4:Cf:198:THR:HB	1.97	0.45
4:Cp:234:GLN:HA	4:Cq:198:THR:HB	1.98	0.45
4:Cq:113:GLU:HB2	4:Cq:172:MET:HB3	1.99	0.45
4:Cs:234:GLN:HA	4:Ct:198:THR:HB	1.99	0.45
5:Cx:91:ALA:HB1	5:Cx:174:ASN:HD21	1.82	0.45
5:Dd:91:ALA:HB1	5:Dd:174:ASN:HD21	1.81	0.45
5:Dt:91:ALA:HB1	5:Dt:174:ASN:HD21	1.82	0.45
6:Eb:109:TYR:CG	11:Jx:73:ARG:HD2	2.51	0.45
6:Ev:157:LEU:HA	6:Ev:161:SER:HB2	1.98	0.45
7:Ey:25:VAL:HG13	7:Ey:149:ILE:HA	1.97	0.45
7:Ey:185:LEU:HD22	7:Ey:199:SER:HB3	1.97	0.45
8:Fx:192:LEU:HD12	8:Fx:196:MET:HE2	1.99	0.45
8:Gb:69:ILE:HG21	10:Jg:238:GLU:HB2	1.96	0.45
11:Jy:104:VAL:HG23	11:Jy:105:ARG:HG2	1.98	0.45
11:Kr:29:TRP:HB3	11:Kr:118:ARG:HE	1.82	0.45
11:Kv:29:TRP:HB3	11:Kv:118:ARG:HE	1.82	0.45
11:Kw:104:VAL:HG23	11:Kw:105:ARG:HG2	1.98	0.45
11:Lc:29:TRP:HB3	11:Lc:118:ARG:HE	1.82	0.45
11:Lo:79:GLU:H	11:Lo:86:GLY:HA3	1.80	0.45
12:Mf:137:TRP:HB3	12:Mg:125:VAL:HB	1.99	0.45
12:Mr:137:TRP:HB3	12:Ms:125:VAL:HB	1.99	0.45
12:Ms:137:TRP:HB3	12:Mt:125:VAL:HB	1.99	0.45
12:Nr:137:TRP:HB3	12:Ns:125:VAL:HB	1.98	0.45
12:Nz:137:TRP:HB3	12:Oa:125:VAL:HB	1.99	0.45
1:Aj:78:GLN:HE22	1:As:121:THR:HB	1.81	0.45
1:Aq:151:THR:HG23	1:Aq:217:GLN:HE22	1.82	0.45
1:Aw:36:LYS:HB3	1:Aw:225:VAL:HG22	1.97	0.45
3:Bg:119:THR:HG23	3:Bg:121:ASN:H	1.81	0.45
3:Bm:139:SER:HB2	4:Cc:153:ALA:HB1	1.97	0.45
3:Bt:15:ASP:HB2	3:Bt:38:PHE:HZ	1.81	0.45
3:Bu:70:GLY:HA2	3:Bu:396:ASN:HB3	1.98	0.45
4:Bx:195:LYS:HG3	4:Cw:231:ALA:HB3	1.98	0.45
5:Db:91:ALA:HB1	5:Db:174:ASN:HD21	1.82	0.45
5:Di:91:ALA:HB1	5:Di:174:ASN:HD21	1.82	0.45
5:Dn:205:LEU:HD11	5:Dn:236:ILE:HD11	1.97	0.45
6:Dx:34:ILE:HD11	6:Dx:100:MET:HB2	1.98	0.45
6:Ee:92:GLU:HB2	6:Ee:103:ARG:HB3	1.98	0.45
6:Eu:167:VAL:HG21	6:Eu:191:ALA:HB2	1.97	0.45
6:Ev:326:PHE:HD2	6:Ev:328:ASP:H	1.64	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Fc:221:VAL:HB	7:Fc:261:VAL:HG12	1.99	0.45
7:Fr:68:ILE:HD11	7:Fs:112:GLN:HE21	1.81	0.45
8:Gw:207:ARG:HD3	8:Gw:210:PHE:HA	1.99	0.45
11:Kg:71:GLY:HA2	11:Kh:99:ARG:HG2	1.99	0.45
11:Kl:29:TRP:HB3	11:Kl:118:ARG:HE	1.82	0.45
11:Lk:29:TRP:HB3	11:Lk:118:ARG:HE	1.81	0.45
11:Mb:104:VAL:HG23	11:Mb:105:ARG:HG2	1.98	0.45
12:Mh:137:TRP:HB3	12:Mi:125:VAL:HB	1.98	0.45
12:Mm:137:TRP:HB3	12:Mn:125:VAL:HB	1.99	0.45
12:Mo:137:TRP:HB3	12:Mp:125:VAL:HB	1.98	0.45
12:Nb:137:TRP:HB3	12:Nc:125:VAL:HB	1.99	0.45
12:Nj:137:TRP:HB3	12:Nk:125:VAL:HB	1.98	0.45
12:Nl:137:TRP:HB3	12:Nm:125:VAL:HB	1.98	0.45
12:Nx:137:TRP:HB3	12:Ny:125:VAL:HB	1.98	0.45
12:Og:137:TRP:HB3	12:Oh:125:VAL:HB	1.99	0.45
13:On:295:VAL:HG12	13:On:397:VAL:HG22	1.97	0.45
13:Pe:432:ILE:HD13	13:Pe:445:LEU:HD13	1.98	0.45
13:Ph:322:TYR:HB3	13:Ph:373:THR:HB	1.97	0.45
1:Ai:200:GLY:HA2	1:Au:124:ASP:HA	1.97	0.45
1:Aw:47:GLN:HA	1:Az:83:ASN:HD21	1.81	0.45
1:Bb:36:LYS:HB3	1:Bb:225:VAL:HG22	1.97	0.45
4:Bx:234:GLN:HA	4:By:198:THR:HB	1.98	0.45
4:By:136:LEU:HD13	4:Bz:154:LEU:HD13	1.99	0.45
4:Ce:107:ILE:HA	4:Ce:221:ASN:HD21	1.82	0.45
4:Cg:107:ILE:HA	4:Cg:221:ASN:HD21	1.82	0.45
4:Cg:129:ASN:HB2	4:Cg:156:ASN:HB3	1.97	0.45
4:Ci:234:GLN:HA	4:Cj:198:THR:HB	1.98	0.45
4:Cn:129:ASN:HB2	4:Cn:156:ASN:HB3	1.98	0.45
4:Ct:240:THR:HG22	4:Ct:244:MET:HE2	1.98	0.45
5:Do:189:SER:HA	5:Do:216:ALA:HB2	1.99	0.45
5:Dt:103:VAL:HB	5:Dt:137:LEU:HD21	1.98	0.45
6:Eg:80:PHE:HD1	9:Hg:136:VAL:HG21	1.82	0.45
6:Ej:157:LEU:HA	6:Ej:161:SER:HB2	1.99	0.45
6:Eo:109:TYR:CE2	11:La:73:ARG:CD	3.00	0.45
6:Ep:157:LEU:HA	6:Ep:161:SER:HB2	1.99	0.45
7:Fk:221:VAL:HB	7:Fk:261:VAL:HG12	1.98	0.45
7:Fm:25:VAL:HG13	7:Fm:149:ILE:HA	1.98	0.45
7:Fr:93:PRO:HB2	7:Fr:95:TRP:HE3	1.81	0.45
8:Gh:192:LEU:HD12	8:Gh:196:MET:HE2	1.97	0.45
8:Gj:147:ARG:HD3	8:Gj:170:TRP:HB3	1.99	0.45
11:Ky:29:TRP:HB3	11:Ky:118:ARG:HE	1.82	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Kz:29:TRP:HB3	11:Kz:118:ARG:HE	1.82	0.45
11:Le:29:TRP:HB3	11:Le:118:ARG:HE	1.82	0.45
11:Ma:104:VAL:HG23	11:Ma:105:ARG:HG2	1.98	0.45
12:Mp:137:TRP:HB3	12:Mq:125:VAL:HB	1.99	0.45
12:Mz:137:TRP:HB3	12:Na:125:VAL:HB	1.99	0.45
12:Nn:137:TRP:HB3	12:No:125:VAL:HB	1.98	0.45
1:Aa:102:PHE:HB3	1:Aa:114:TYR:HB3	1.98	0.45
1:Ah:1:MET:HA	1:Ah:251:VAL:HG13	1.99	0.45
1:Ah:22:ILE:HG21	1:Ah:234:MET:HB2	1.98	0.45
1:Ar:1:MET:HB3	1:Ar:255:MET:HE3	1.99	0.45
3:Bi:324:ASP:HB3	3:Bi:332:LEU:HB2	1.99	0.45
3:Bk:50:ALA:HB1	3:Bn:359:LYS:HB3	1.98	0.45
4:Ca:240:THR:HG22	4:Ca:244:MET:HE2	1.99	0.45
4:Cd:107:ILE:HA	4:Cd:221:ASN:HD21	1.82	0.45
4:Ce:124:ASP:HB2	4:Cf:165:ALA:HB3	1.98	0.45
4:Ci:113:GLU:HB2	4:Ci:172:MET:HB3	1.98	0.45
4:Cj:231:ALA:HB3	4:Ck:195:LYS:HG3	1.99	0.45
4:Co:231:ALA:HB3	4:Cp:195:LYS:HG3	1.99	0.45
4:Cq:231:ALA:HB3	4:Cr:195:LYS:HG3	1.99	0.45
4:Cs:129:ASN:HB2	4:Cs:156:ASN:HB3	1.98	0.45
4:Ct:107:ILE:HA	4:Ct:221:ASN:HD21	1.82	0.45
4:Ct:234:GLN:HA	4:Cu:198:THR:HB	1.98	0.45
4:Cu:231:ALA:HB3	4:Cv:195:LYS:HG3	1.99	0.45
4:Cv:240:THR:HG22	4:Cv:244:MET:HE2	1.99	0.45
4:Cw:129:ASN:HB2	4:Cw:156:ASN:HB3	1.97	0.45
5:Df:342:MET:HE2	5:Dh:138:VAL:HG21	1.99	0.45
5:Dg:91:ALA:HB1	5:Dg:174:ASN:HD21	1.82	0.45
5:Dm:205:LEU:HD11	5:Dm:236:ILE:HD11	1.99	0.45
5:Dq:91:ALA:HB1	5:Dq:174:ASN:HD21	1.81	0.45
5:Dr:91:ALA:HB1	5:Dr:174:ASN:HD21	1.82	0.45
6:Ed:262:TRP:HA	6:Ed:267:GLY:HA3	1.97	0.45
6:Eq:337:VAL:HG22	6:Er:350:TYR:HE1	1.82	0.45
6:Ew:255:ASP:HB3	6:Ew:258:SER:HB3	1.97	0.45
11:Kc:65:LEU:HD21	11:Kc:119:LEU:HB2	1.98	0.45
11:La:29:TRP:HB3	11:La:118:ARG:HE	1.81	0.45
11:Lr:29:TRP:HB3	11:Lr:118:ARG:HE	1.82	0.45
11:Lt:29:TRP:HB3	11:Lt:118:ARG:HE	1.81	0.45
11:Lu:29:TRP:HB3	11:Lu:118:ARG:HE	1.82	0.45
12:Mi:137:TRP:HB3	12:Mj:125:VAL:HB	1.99	0.45
12:My:137:TRP:HB3	12:Mz:125:VAL:HB	1.99	0.45
13:Pe:322:TYR:HB3	13:Pe:373:THR:HB	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Pf:399:VAL:HG21	13:Pf:431:LEU:HD13	1.98	0.45
13:Pj:322:TYR:HB3	13:Pj:373:THR:HB	1.97	0.45
13:Pm:266:LEU:HD22	13:Pm:301:PHE:HZ	1.82	0.45
13:Pm:397:VAL:HB	13:Pm:445:LEU:HD12	1.98	0.45
13:Pp:322:TYR:HB3	13:Pp:373:THR:HB	1.99	0.45
1:Am:166:GLN:HB2	4:Ct:128:LYS:HB3	1.98	0.45
1:Ao:22:ILE:HG21	1:Ao:234:MET:HB2	1.98	0.45
1:Ao:196:THR:HG22	2:Bd:155:ALA:HB1	1.99	0.45
1:Ap:180:ILE:HD11	1:Ap:203:GLN:HE22	1.82	0.45
1:Au:181:ASN:HD22	1:Av:122:LEU:HB2	1.82	0.45
3:Bt:325:PHE:HB2	3:Bt:389:ASN:HB3	1.99	0.45
4:Cj:107:ILE:HA	4:Cj:221:ASN:HD21	1.82	0.45
4:Ck:234:GLN:HA	4:Cl:198:THR:HB	1.98	0.45
4:Cu:125:LEU:HB2	4:Cu:160:PHE:HB3	1.98	0.45
4:Cv:129:ASN:HB2	4:Cv:156:ASN:HB3	1.98	0.45
4:Cw:36:ASP:HB3	4:Cw:39:GLU:HG2	1.99	0.45
5:Cz:91:ALA:HB1	5:Cz:174:ASN:HD21	1.82	0.45
5:Dn:103:VAL:HB	5:Dn:137:LEU:HD21	1.99	0.45
5:Dp:91:ALA:HB1	5:Dp:174:ASN:HD21	1.82	0.45
6:Ec:262:TRP:HA	6:Ec:267:GLY:HA3	1.97	0.45
6:Ed:34:ILE:HD11	6:Ed:100:MET:HB2	1.98	0.45
6:Ee:249:PRO:HG2	6:Ee:252:SER:HB3	1.98	0.45
6:Eh:85:VAL:HG22	6:Eh:108:ILE:HG12	1.99	0.45
6:Ek:262:TRP:HA	6:Ek:267:GLY:HA3	1.98	0.45
6:El:153:ILE:HG21	6:El:195:MET:HE1	1.98	0.45
6:Eo:358:VAL:HG12	6:Eo:360:GLN:H	1.82	0.45
7:Fb:104:ILE:HG23	7:Fc:145:ARG:HD3	1.99	0.45
7:Fn:68:ILE:HD11	7:Fo:112:GLN:HE21	1.81	0.45
8:Ga:189:ARG:HH21	8:Ga:205:LYS:HZ1	1.64	0.45
8:Gl:202:ALA:HA	8:Gl:205:LYS:HZ2	1.82	0.45
10:Jd:259:GLU:HG3	10:Jd:266:HIS:HD2	1.82	0.45
10:Jt:259:GLU:HG3	10:Jt:266:HIS:HD2	1.82	0.45
11:Lg:29:TRP:HB3	11:Lg:118:ARG:HE	1.82	0.45
11:Li:29:TRP:HB3	11:Li:118:ARG:HE	1.82	0.45
11:Ll:29:TRP:HB3	11:Ll:118:ARG:HE	1.82	0.45
12:Mx:137:TRP:HB3	12:My:125:VAL:HB	1.99	0.45
12:Nc:137:TRP:HB3	12:Nd:125:VAL:HB	1.99	0.45
12:Oc:137:TRP:HB3	12:Od:125:VAL:HB	1.99	0.45
13:Op:309:LYS:HG3	13:Op:382:ILE:HG13	1.99	0.45
13:Or:384:HIS:HB3	13:Os:305:GLU:HB2	1.99	0.45
13:Oy:324:LEU:HB3	13:Oy:371:GLU:HB3	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Pb:324:LEU:HB3	13:Pb:371:GLU:HB3	1.99	0.45
1:Ab:129:VAL:HG12	1:Ab:136:ARG:HA	1.99	0.45
1:Ac:255:MET:HE3	1:Ak:239:ARG:HG3	1.97	0.45
1:Ae:30:SER:HB2	3:Bq:412:ASN:HD21	1.81	0.45
1:Ak:52:PRO:HG3	1:Ak:65:GLY:HA3	1.98	0.45
1:Ap:185:LEU:HB3	1:Ap:193:TYR:HB3	1.99	0.45
1:At:175:THR:HA	1:At:207:PRO:HD3	1.98	0.45
1:Aw:83:ASN:HD22	1:Aw:99:GLY:HA2	1.82	0.45
3:Br:126:LEU:HD13	3:Br:142:PRO:HB2	1.99	0.45
4:Cd:136:LEU:HD13	4:Ce:154:LEU:HD13	1.99	0.45
4:Cf:129:ASN:HB2	4:Cf:156:ASN:HB3	1.98	0.45
4:Ch:64:PRO:HB2	4:Ci:38:VAL:HG13	1.99	0.45
4:Ch:129:ASN:HB2	4:Ch:156:ASN:HB3	1.97	0.45
4:Cl:107:ILE:HA	4:Cl:221:ASN:HD21	1.82	0.45
4:Cr:231:ALA:HB3	4:Cs:195:LYS:HG3	1.99	0.45
4:Ct:113:GLU:HB2	4:Ct:172:MET:HB3	1.99	0.45
5:Db:103:VAL:HB	5:Db:137:LEU:HD21	1.99	0.45
5:Di:103:VAL:HB	5:Di:137:LEU:HD21	1.99	0.45
5:Dq:189:SER:HA	5:Dq:216:ALA:HB2	1.99	0.45
5:Dt:205:LEU:HD11	5:Dt:236:ILE:HD11	1.98	0.45
5:Dw:189:SER:HA	5:Dw:216:ALA:HB2	1.99	0.45
6:Ea:220:PHE:HE2	6:Ea:273:VAL:HG11	1.82	0.45
6:Ed:249:PRO:HG2	6:Ed:252:SER:HB3	1.98	0.45
6:Ee:157:LEU:HA	6:Ee:161:SER:HB2	1.98	0.45
6:Eg:249:PRO:HG2	6:Eg:252:SER:HB3	1.98	0.45
6:Eq:262:TRP:HA	6:Eq:267:GLY:HA3	1.98	0.45
7:Fb:31:PRO:HB3	7:Fb:156:VAL:HG21	1.98	0.45
7:Fg:25:VAL:HG13	7:Fg:149:ILE:HA	1.99	0.45
8:Gh:69:ILE:HG21	10:Jm:238:GLU:HB2	1.98	0.45
8:Gp:68:ARG:HD2	10:Jt:239:LEU:HB2	1.99	0.45
10:Jb:259:GLU:HG3	10:Jb:266:HIS:HD2	1.82	0.45
11:Jx:29:TRP:HB3	11:Jx:118:ARG:HE	1.81	0.45
11:Ke:29:TRP:HB3	11:Ke:118:ARG:HE	1.82	0.45
11:Kn:29:TRP:HB3	11:Kn:118:ARG:HE	1.81	0.45
11:Ks:29:TRP:HB3	11:Ks:118:ARG:HE	1.82	0.45
11:Kt:65:LEU:HD21	11:Kt:119:LEU:HB2	1.99	0.45
11:Lf:29:TRP:HB3	11:Lf:118:ARG:HE	1.81	0.45
11:Lw:65:LEU:HD21	11:Lw:119:LEU:HB2	1.99	0.45
11:Ly:29:TRP:HB3	11:Ly:118:ARG:HE	1.82	0.45
11:Mb:29:TRP:HB3	11:Mb:118:ARG:HE	1.82	0.45
12:Mj:137:TRP:HB3	12:Mk:125:VAL:HB	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Mw:137:TRP:HB3	12:Mx:125:VAL:HB	1.99	0.45
12:Ng:137:TRP:HB3	12:Nh:125:VAL:HB	1.99	0.45
12:Nt:137:TRP:HB3	12:Nu:125:VAL:HB	1.99	0.45
12:Nu:137:TRP:HB3	12:Nv:125:VAL:HB	1.99	0.45
12:Oa:137:TRP:HB3	12:Ob:125:VAL:HB	1.99	0.45
12:Oh:137:TRP:HB3	12:Oi:125:VAL:HB	1.99	0.45
13:Pa:309:LYS:HE2	13:Pa:311:PHE:HZ	1.81	0.45
13:Pc:430:VAL:HG23	13:Pd:448:LEU:HD12	1.98	0.45
13:Pk:295:VAL:HG12	13:Pk:397:VAL:HG22	1.97	0.45
13:Pp:450:MET:HE3	13:Pp:451:PRO:HD2	1.98	0.45
1:Ac:98:GLU:O	1:Ac:213:GLY:CA	2.65	0.45
1:Ai:247:VAL:HG21	1:Au:26:LEU:HG	1.99	0.45
1:Am:216:ARG:HB3	1:Am:219:MET:HG3	1.98	0.45
1:An:67:MET:HE2	1:Ao:187:PRO:HD2	1.98	0.45
1:Aq:64:SER:HB2	1:Ar:76:ALA:HB1	1.99	0.45
1:Au:239:ARG:HA	1:Au:239:ARG:HD3	1.73	0.45
3:Bo:65:GLN:HE22	3:Bo:365:TRP:HE1	1.65	0.45
3:Bt:13:GLN:HB2	3:Bt:413:PHE:HE2	1.82	0.45
4:Bz:234:GLN:HA	4:Ca:198:THR:HB	1.98	0.45
4:Cc:113:GLU:HB2	4:Cc:172:MET:HB3	1.98	0.45
4:Cc:234:GLN:HA	4:Cd:198:THR:HB	1.98	0.45
4:Ce:240:THR:HG22	4:Ce:244:MET:HE2	1.99	0.45
4:Ch:107:ILE:HA	4:Ch:221:ASN:HD21	1.82	0.45
4:Ch:113:GLU:HB2	4:Ch:172:MET:HB3	1.99	0.45
4:Ck:129:ASN:HB2	4:Ck:156:ASN:HB3	1.97	0.45
4:Ck:231:ALA:HB3	4:Cl:195:LYS:HG3	1.99	0.45
4:Cn:113:GLU:HB2	4:Cn:172:MET:HB3	1.98	0.45
4:Cn:234:GLN:HA	4:Co:198:THR:HB	1.98	0.45
4:Cp:136:LEU:HD13	4:Cq:154:LEU:HD13	1.99	0.45
4:Cr:107:ILE:HA	4:Cr:221:ASN:HD21	1.82	0.45
4:Cv:107:ILE:HA	4:Cv:221:ASN:HD21	1.82	0.45
5:De:255:ARG:HH12	5:Dg:136:ASN:HB3	1.81	0.45
5:Dg:103:VAL:HB	5:Dg:137:LEU:HD21	1.99	0.45
5:Dh:103:VAL:HB	5:Dh:137:LEU:HD21	1.99	0.45
5:Di:189:SER:HA	5:Di:216:ALA:HB2	1.99	0.45
5:Di:255:ARG:HH12	5:Dk:136:ASN:HB3	1.82	0.45
5:Dm:189:SER:HA	5:Dm:216:ALA:HB2	1.99	0.45
5:Ds:103:VAL:HB	5:Ds:137:LEU:HD21	1.98	0.45
6:Ea:269:MET:HE3	6:Ea:269:MET:HB3	1.87	0.45
6:Ec:28:VAL:HG13	6:Ec:49:ALA:HB1	1.99	0.45
6:El:226:VAL:HB	6:El:236:MET:HB3	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Fa:185:LEU:HD22	7:Fa:199:SER:HB3	1.99	0.45
7:Fg:64:ALA:HB2	7:Fg:172:LEU:HD22	1.99	0.45
7:Fo:221:VAL:HB	7:Fo:261:VAL:HG12	1.99	0.45
7:Fu:25:VAL:HG13	7:Fu:149:ILE:HA	1.99	0.45
8:Gp:69:ILE:HG21	10:Ju:238:GLU:HB2	1.98	0.45
8:Gt:192:LEU:HD12	8:Gt:196:MET:HE2	1.99	0.45
10:Je:223:LYS:HB2	10:Je:300:LEU:HB2	1.99	0.45
10:Jf:259:GLU:HG3	10:Jf:266:HIS:HD2	1.82	0.45
11:Kc:29:TRP:HB3	11:Kc:118:ARG:HE	1.82	0.45
11:Kg:73:ARG:H	11:Kg:73:ARG:HG3	1.49	0.45
11:Kq:29:TRP:HB3	11:Kq:118:ARG:HE	1.81	0.45
11:Kw:29:TRP:HB3	11:Kw:118:ARG:HE	1.81	0.45
11:Ls:65:LEU:HD21	11:Ls:119:LEU:HB2	1.98	0.45
11:Lv:29:TRP:HB3	11:Lv:118:ARG:HE	1.81	0.45
11:Lz:104:VAL:HG23	11:Lz:105:ARG:HG2	1.99	0.45
12:Nf:137:TRP:HB3	12:Ng:125:VAL:HB	1.99	0.45
12:Nk:137:TRP:HB3	12:Nl:125:VAL:HB	1.99	0.45
12:Ns:137:TRP:HB3	12:Nt:125:VAL:HB	1.99	0.45
13:Ow:266:LEU:HD23	13:Ow:301:PHE:HZ	1.82	0.45
13:Ow:397:VAL:HB	13:Ow:445:LEU:HD12	1.99	0.45
1:Ad:55:GLN:HA	1:Ad:61:ARG:HG3	1.97	0.45
1:Ae:232:VAL:HG11	3:Bt:6:LEU:HD13	1.99	0.45
1:Al:73:LYS:HD2	1:Av:219:MET:HE2	1.98	0.45
1:Ar:180:ILE:HG13	2:Bv:107:ILE:HG21	1.99	0.45
3:Bi:86:THR:HB	3:Bi:384:PHE:HA	1.99	0.45
3:Bp:62:LYS:HE3	3:Bp:63:VAL:H	1.81	0.45
3:Bp:426:LEU:HD11	3:Bs:16:LEU:HD13	1.99	0.45
4:Cb:234:GLN:HA	4:Cc:198:THR:HB	1.98	0.45
4:Ce:136:LEU:HD13	4:Cf:154:LEU:HD13	1.99	0.45
4:Cg:113:GLU:HB2	4:Cg:172:MET:HB3	1.99	0.45
4:Ci:136:LEU:HD13	4:Cj:154:LEU:HD13	1.99	0.45
4:Cm:129:ASN:HB2	4:Cm:156:ASN:HB3	1.98	0.45
4:Cp:113:GLU:HB2	4:Cp:172:MET:HB3	1.99	0.45
4:Cu:64:PRO:HB2	4:Cv:38:VAL:HG13	1.98	0.45
5:Dd:103:VAL:HB	5:Dd:137:LEU:HD21	1.99	0.45
6:Ec:227:PHE:HD1	6:Ec:234:GLU:HA	1.81	0.45
6:Ee:262:TRP:HA	6:Ee:267:GLY:HA3	1.98	0.45
6:Eg:227:PHE:HD1	6:Eg:234:GLU:HA	1.81	0.45
6:Eo:373:MET:HE3	6:Eo:373:MET:HB2	1.91	0.45
6:Er:227:PHE:HD1	6:Er:234:GLU:HA	1.82	0.45
6:Eu:373:MET:HE3	6:Eu:373:MET:HB2	1.89	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Fi:221:VAL:HB	7:Fi:261:VAL:HG12	1.99	0.45
7:Fw:184:ILE:HG12	7:Fw:286:VAL:HG22	1.98	0.45
8:Gv:69:ILE:HG21	10:Jw:238:GLU:HB2	1.98	0.45
10:Jh:272:ARG:HD3	10:Ji:272:ARG:HH11	1.82	0.45
11:Kh:29:TRP:HB3	11:Kh:118:ARG:HE	1.82	0.45
11:Ki:71:GLY:HA2	11:Kj:99:ARG:HG2	1.99	0.45
11:Ks:71:GLY:HA2	11:Kt:99:ARG:HG2	1.99	0.45
11:Lj:29:TRP:HB3	11:Lj:118:ARG:HE	1.82	0.45
11:Lj:65:LEU:HD21	11:Lj:119:LEU:HB2	1.98	0.45
12:Nd:137:TRP:HB3	12:Ne:125:VAL:HB	1.99	0.45
12:Np:137:TRP:HB3	12:Nq:125:VAL:HB	1.99	0.45
13:Oj:324:LEU:HD12	13:Ok:371:GLU:HG2	1.98	0.45
13:Ol:308:ARG:HB2	13:Ol:383:SER:HB3	1.98	0.45
13:Pc:293:ALA:HB2	13:Pc:399:VAL:HG13	1.99	0.45
13:Pf:430:VAL:HG23	13:Pg:448:LEU:HD12	1.98	0.45
13:Pm:260:ARG:H	13:Pm:260:ARG:HG2	1.61	0.45
1:Ah:177:VAL:HG22	1:Ah:204:GLU:HA	1.99	0.44
1:Am:129:VAL:HG12	1:Am:136:ARG:HA	1.98	0.44
1:An:209:LEU:HD23	1:An:210:ASP:HB2	1.99	0.44
1:Aw:36:LYS:HD3	1:Aw:225:VAL:HA	1.98	0.44
3:Bj:367:ALA:HB2	3:Bj:374:LYS:HD3	1.99	0.44
3:Bn:350:ARG:HH11	3:Bn:383:SER:HB2	1.82	0.44
4:Cd:119:LYS:HD2	4:Cf:199:LEU:HB2	2.00	0.44
4:Cf:234:GLN:HA	4:Cg:198:THR:HB	1.98	0.44
4:Ci:129:ASN:HB2	4:Ci:156:ASN:HB3	1.98	0.44
4:Cq:129:ASN:HB2	4:Cq:156:ASN:HB3	1.99	0.44
5:De:205:LEU:HD11	5:De:236:ILE:HD11	1.98	0.44
6:Eb:109:TYR:CD2	6:Eb:109:TYR:CB	2.81	0.44
6:Eg:182:ILE:HG23	6:Eg:194:ILE:HD12	1.98	0.44
6:Ek:167:VAL:HG21	6:Ek:191:ALA:HB2	1.98	0.44
6:Eo:326:PHE:HD2	6:Eo:328:ASP:H	1.65	0.44
6:Ep:220:PHE:HE2	6:Ep:273:VAL:HG11	1.82	0.44
6:Er:125:LEU:HD11	6:Er:170:THR:HB	1.99	0.44
6:Es:226:VAL:HB	6:Es:236:MET:HB3	1.99	0.44
7:Ex:175:TYR:HE1	7:Ex:209:TYR:HB2	1.82	0.44
10:Iy:223:LYS:HB2	10:Iy:300:LEU:HB2	1.99	0.44
10:Iy:227:THR:HA	10:Iy:272:ARG:O	2.18	0.44
10:Jr:272:ARG:HD3	10:Js:272:ARG:HH11	1.82	0.44
10:Jt:272:ARG:HD3	10:Ju:272:ARG:HH11	1.82	0.44
10:Jv:272:ARG:HD3	10:Jw:272:ARG:HH11	1.82	0.44
11:Kj:65:LEU:HD21	11:Kj:119:LEU:HB2	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Ld:29:TRP:HB3	11:Ld:118:ARG:HE	1.82	0.44
11:Lk:65:LEU:HD21	11:Lk:119:LEU:HB2	1.99	0.44
11:Lp:29:TRP:HB3	11:Lp:118:ARG:HE	1.82	0.44
13:Pj:399:VAL:HG21	13:Pj:431:LEU:HD13	2.00	0.44
13:Pk:282:LEU:HD21	13:Pk:431:LEU:HD21	1.99	0.44
13:Pk:431:LEU:HB3	13:Pk:445:LEU:HD11	1.99	0.44
1:Ab:73:LYS:HE3	1:Ak:219:MET:HE2	1.98	0.44
1:Ab:162:VAL:HB	1:Ab:165:GLN:HB2	2.00	0.44
1:Al:209:LEU:HD23	1:Al:210:ASP:HB2	1.99	0.44
1:Am:158:VAL:HG12	1:Am:171:LEU:HD12	1.99	0.44
1:Ap:87:GLN:HB2	1:Ap:220:LEU:HB2	1.98	0.44
1:Az:96:MET:HG3	1:Az:221:GLU:HB2	2.00	0.44
3:Bq:404:VAL:HG13	3:Bs:6:LEU:HD22	1.99	0.44
3:Bt:91:VAL:HB	3:Bt:123:GLU:HB3	1.99	0.44
4:Bx:107:ILE:HA	4:Bx:221:ASN:HD21	1.82	0.44
4:Bx:240:THR:HG22	4:Bx:244:MET:HE2	1.99	0.44
4:By:107:ILE:HA	4:By:221:ASN:HD21	1.82	0.44
4:Bz:136:LEU:HD13	4:Ca:154:LEU:HD13	1.99	0.44
4:Cd:240:THR:HG22	4:Cd:244:MET:HE2	1.99	0.44
4:Cl:234:GLN:HA	4:Cm:198:THR:HB	1.98	0.44
4:Co:107:ILE:HA	4:Co:221:ASN:HD21	1.82	0.44
4:Cs:125:LEU:HB2	4:Cs:160:PHE:HB3	1.98	0.44
4:Ct:64:PRO:HB2	4:Cu:38:VAL:HG13	1.99	0.44
4:Ct:124:ASP:HB2	4:Cu:165:ALA:HB3	1.98	0.44
4:Cw:240:THR:HG22	4:Cw:244:MET:HE2	1.99	0.44
5:Dc:40:LEU:HD23	5:Dc:82:ALA:HA	1.99	0.44
5:Df:103:VAL:HB	5:Df:137:LEU:HD21	1.99	0.44
5:Dk:103:VAL:HB	5:Dk:137:LEU:HD21	1.98	0.44
5:Ds:189:SER:HA	5:Ds:216:ALA:HB2	1.99	0.44
5:Du:103:VAL:HB	5:Du:137:LEU:HD21	1.98	0.44
6:Ef:157:LEU:HA	6:Ef:161:SER:HB2	1.99	0.44
6:Ei:79:LEU:HD23	9:Hi:134:GLN:HB2	1.98	0.44
6:Er:326:PHE:HD2	6:Er:328:ASP:H	1.65	0.44
6:Eu:80:PHE:HA	9:Hu:136:VAL:HG21	1.99	0.44
7:Fc:25:VAL:HG13	7:Fc:149:ILE:HA	1.99	0.44
8:Gr:192:LEU:HD12	8:Gr:196:MET:HE2	1.99	0.44
10:Iz:272:ARG:HD3	10:Ja:272:ARG:HH11	1.82	0.44
10:Jc:250:ARG:HH21	10:Jc:293:ARG:HH21	1.66	0.44
10:Ju:227:THR:HA	10:Ju:272:ARG:O	2.18	0.44
11:Jz:29:TRP:HB3	11:Jz:118:ARG:HE	1.82	0.44
11:Kk:29:TRP:HB3	11:Kk:118:ARG:HE	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Ma:29:TRP:HB3	11:Ma:118:ARG:HE	1.82	0.44
11:Mc:65:LEU:HD21	11:Mc:119:LEU:HB2	1.99	0.44
12:Mr:219:ILE:HG23	12:Ms:192:LEU:HD12	2.00	0.44
12:Ni:137:TRP:HB3	12:Nj:125:VAL:HB	1.99	0.44
13:Ok:262:LYS:HE2	13:Ol:257:SER:HA	1.98	0.44
13:Ol:428:ARG:O	13:Ol:432:ILE:HG12	2.18	0.44
13:On:322:TYR:HB3	13:On:373:THR:HB	1.99	0.44
13:Pe:399:VAL:HB	13:Pe:447:VAL:HG22	2.00	0.44
1:Ab:232:VAL:HG13	3:Br:6:LEU:HD22	1.99	0.44
1:Ao:40:VAL:HG13	1:Ap:119:GLN:HG3	1.98	0.44
4:Bz:200:ASN:HB3	4:Bz:201:THR:H	1.68	0.44
4:Ca:234:GLN:HA	4:Cb:198:THR:HB	1.98	0.44
4:Cc:136:LEU:HD13	4:Cd:154:LEU:HD13	1.99	0.44
4:Cg:136:LEU:HD13	4:Ch:154:LEU:HD13	2.00	0.44
4:Ci:107:ILE:HA	4:Ci:221:ASN:HD21	1.82	0.44
4:Cj:129:ASN:HB2	4:Cj:156:ASN:HB3	1.98	0.44
4:Cl:129:ASN:HB2	4:Cl:156:ASN:HB3	1.98	0.44
4:Cm:107:ILE:HA	4:Cm:221:ASN:HD21	1.82	0.44
4:Cn:107:ILE:HA	4:Cn:221:ASN:HD21	1.82	0.44
4:Co:129:ASN:HB2	4:Co:156:ASN:HB3	1.99	0.44
4:Cq:240:THR:HG22	4:Cq:244:MET:HE2	1.98	0.44
4:Cv:234:GLN:HA	4:Cw:198:THR:HB	1.99	0.44
5:Cy:91:ALA:HB1	5:Cy:174:ASN:HD21	1.82	0.44
5:Dg:189:SER:HA	5:Dg:216:ALA:HB2	2.00	0.44
5:Dk:91:ALA:HB1	5:Dk:174:ASN:HD21	1.82	0.44
5:Dk:189:SER:HA	5:Dk:216:ALA:HB2	1.99	0.44
5:Dl:205:LEU:HD11	5:Dl:236:ILE:HD11	1.98	0.44
6:Dy:322:HIS:CD2	6:Dy:368:GLN:H	2.35	0.44
6:Dz:157:LEU:HA	6:Dz:161:SER:HB2	1.99	0.44
6:El:255:ASP:HB3	6:El:258:SER:HB3	1.99	0.44
6:Et:249:PRO:HG2	6:Et:252:SER:HB3	2.00	0.44
6:Eu:326:PHE:HD2	6:Eu:328:ASP:H	1.65	0.44
7:Fc:140:GLN:HA	7:Fc:148:ARG:HA	1.99	0.44
7:Fm:169:ILE:HG13	7:Fm:172:LEU:HD12	1.99	0.44
7:Fw:221:VAL:HB	7:Fw:261:VAL:HG12	1.99	0.44
11:Kp:29:TRP:HB3	11:Kp:118:ARG:HE	1.82	0.44
11:Kq:71:GLY:HA2	11:Kr:99:ARG:HG2	2.00	0.44
12:Mz:219:ILE:HG23	12:Na:192:LEU:HD12	2.00	0.44
13:Oo:432:ILE:HG23	13:Oo:437:TYR:HB3	1.98	0.44
13:Ph:397:VAL:HB	13:Ph:445:LEU:HD12	1.99	0.44
13:Pi:295:VAL:HG22	13:Pi:397:VAL:HG22	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aj:251:VAL:HA	1:Aj:254:MET:HE3	2.00	0.44
3:Bf:102:GLU:HB3	3:Bf:364:GLN:HB3	1.99	0.44
3:Bk:378:GLU:HB2	3:Bk:381:LYS:HG2	1.99	0.44
3:Bl:35:ARG:HE	3:Bl:64:ALA:HB3	1.82	0.44
3:Br:322:LYS:HB2	3:Br:334:THR:HB	2.00	0.44
4:By:119:LYS:HD2	4:Ca:199:LEU:HB2	2.00	0.44
4:Ci:231:ALA:HB3	4:Cj:195:LYS:HG3	1.99	0.44
4:Cp:107:ILE:HA	4:Cp:221:ASN:HD21	1.82	0.44
4:Cu:240:THR:HG22	4:Cu:244:MET:HE2	1.99	0.44
5:Cy:255:ARG:HH12	5:Da:136:ASN:HB3	1.83	0.44
5:Dk:205:LEU:HD11	5:Dk:236:ILE:HD11	2.00	0.44
5:Dl:91:ALA:HB1	5:Dl:174:ASN:HD21	1.82	0.44
5:Dn:255:ARG:HH12	5:Dp:136:ASN:HB3	1.83	0.44
5:Du:205:LEU:HD11	5:Du:236:ILE:HD11	1.98	0.44
5:Dw:103:VAL:HB	5:Dw:137:LEU:HD21	1.99	0.44
6:Dz:373:MET:HE3	6:Dz:373:MET:HB2	1.92	0.44
6:Ec:126:ILE:HG13	6:Ec:154:ASN:HB2	1.98	0.44
6:Eq:358:VAL:HG12	6:Eq:360:GLN:H	1.82	0.44
6:Ev:223:GLU:HG2	6:Ev:239:THR:HG22	1.99	0.44
6:Ew:373:MET:HE3	6:Ew:373:MET:HB2	1.89	0.44
7:Fa:25:VAL:HG13	7:Fa:149:ILE:HA	1.98	0.44
7:Fa:93:PRO:HD3	7:Fa:133:ARG:HA	1.98	0.44
7:Fa:221:VAL:HB	7:Fa:261:VAL:HG12	2.00	0.44
7:Fq:221:VAL:HB	7:Fq:261:VAL:HG12	1.99	0.44
7:Fw:116:TYR:HE2	8:Gw:198:GLU:HB3	1.81	0.44
8:Ga:118:TYR:HB2	8:Ga:131:ALA:HB2	2.00	0.44
8:Gj:135:LEU:HB3	8:Gj:150:LEU:HB2	1.99	0.44
8:Gn:192:LEU:HD12	8:Gn:196:MET:HE2	1.99	0.44
8:Gt:202:ALA:HA	8:Gt:205:LYS:HZ2	1.82	0.44
10:Jj:272:ARG:HD3	10:Jk:272:ARG:HH11	1.82	0.44
10:Jp:272:ARG:HD3	10:Jq:272:ARG:HH11	1.82	0.44
10:Jr:259:GLU:HG3	10:Jr:266:HIS:HD2	1.82	0.44
10:Js:227:THR:HA	10:Js:272:ARG:O	2.18	0.44
11:Kk:65:LEU:HD21	11:Kk:119:LEU:HB2	2.00	0.44
11:Kx:29:TRP:HB3	11:Kx:118:ARG:HE	1.82	0.44
12:Mj:219:ILE:HG23	12:Mk:192:LEU:HD12	2.00	0.44
12:Nm:137:TRP:HB3	12:Nn:125:VAL:HB	1.99	0.44
12:Oc:219:ILE:HG23	12:Od:192:LEU:HD12	2.00	0.44
13:On:274:LEU:HD11	13:On:435:VAL:HG13	1.99	0.44
13:Oz:399:VAL:HB	13:Oz:447:VAL:HG22	1.99	0.44
1:Ah:117:ASN:HB3	1:Ah:191:ASN:HD22	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Av:154:ASN:HB2	1:Av:214:ASP:HB2	2.00	0.44
2:Ba:105:LEU:HA	2:Ba:115:ASN:HA	1.99	0.44
3:Bf:411:ARG:HD2	3:Bf:411:ARG:HA	1.79	0.44
3:Bm:32:LYS:HB2	3:Bm:65:GLN:HE21	1.83	0.44
3:Bo:118:VAL:HG12	3:Bo:124:PHE:HA	2.00	0.44
3:Bu:81:LEU:HB2	3:Bu:107:GLY:HA3	1.98	0.44
4:Bz:107:ILE:HA	4:Bz:221:ASN:HD21	1.82	0.44
4:Cd:113:GLU:HB2	4:Cd:172:MET:HB3	1.99	0.44
4:Cd:234:GLN:HA	4:Ce:198:THR:HB	1.98	0.44
4:Cf:113:GLU:HB2	4:Cf:172:MET:HB3	1.99	0.44
4:Cl:113:GLU:HB2	4:Cl:172:MET:HB3	1.98	0.44
4:Cl:240:THR:HG22	4:Cl:244:MET:HE2	1.98	0.44
4:Cq:107:ILE:HA	4:Cq:221:ASN:HD21	1.81	0.44
4:Ct:128:LYS:HA	4:Ct:156:ASN:HD22	1.82	0.44
5:Dc:189:SER:HA	5:Dc:216:ALA:HB2	1.99	0.44
5:De:40:LEU:HD23	5:De:82:ALA:HA	1.99	0.44
5:Dg:205:LEU:HD11	5:Dg:236:ILE:HD11	1.99	0.44
5:Do:255:ARG:HH12	5:Dq:136:ASN:HB3	1.83	0.44
6:Dy:61:ILE:HD11	6:Dy:282:GLU:HG3	2.00	0.44
6:En:226:VAL:HB	6:En:236:MET:HB3	2.00	0.44
7:Ez:31:PRO:HB3	7:Ez:156:VAL:HG21	1.99	0.44
7:Fg:93:PRO:HD3	7:Fg:133:ARG:HA	1.99	0.44
7:Fq:93:PRO:HD3	7:Fq:133:ARG:HA	1.99	0.44
7:Ft:68:ILE:HD11	7:Fu:112:GLN:HE21	1.82	0.44
8:Gf:192:LEU:HD12	8:Gf:196:MET:HE2	1.99	0.44
8:Gj:192:LEU:HD12	8:Gj:196:MET:HE2	1.98	0.44
10:Jb:272:ARG:HD3	10:Jc:272:ARG:HH11	1.82	0.44
10:Jc:227:THR:HA	10:Jc:272:ARG:O	2.18	0.44
10:Je:250:ARG:HH21	10:Je:293:ARG:HH21	1.66	0.44
10:Jf:272:ARG:HD3	10:Jg:272:ARG:HH11	1.82	0.44
10:Jq:223:LYS:HB2	10:Jq:300:LEU:HB2	1.99	0.44
10:Jr:227:THR:HA	10:Jr:272:ARG:O	2.18	0.44
10:Jv:227:THR:HA	10:Jv:272:ARG:O	2.18	0.44
10:Jw:227:THR:HA	10:Jw:272:ARG:O	2.18	0.44
11:Jx:99:ARG:HG2	11:Mc:71:GLY:HA2	1.99	0.44
11:Kq:65:LEU:HD21	11:Kq:119:LEU:HB2	1.99	0.44
11:Lw:29:TRP:HB3	11:Lw:118:ARG:HE	1.82	0.44
11:Lz:29:TRP:HB3	11:Lz:118:ARG:HE	1.81	0.44
12:Mx:219:ILE:HG23	12:My:192:LEU:HD12	2.00	0.44
13:Pg:322:TYR:HB3	13:Pg:373:THR:HB	1.99	0.44
1:Ac:40:VAL:HG22	1:Aj:119:GLN:HE21	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ah:86:VAL:HB	3:Bl:56:GLN:HG2	1.99	0.44
1:Ah:180:ILE:HG22	1:Ah:200:GLY:HA3	1.99	0.44
1:Ak:98:GLU:O	1:Ak:213:GLY:HA3	2.18	0.44
1:Al:1:MET:HE2	1:Al:1:MET:HB2	1.88	0.44
1:Al:148:ILE:HB	1:Al:161:ARG:HB2	2.00	0.44
4:By:234:GLN:HA	4:Bz:198:THR:HB	1.98	0.44
4:Cf:136:LEU:HD13	4:Cg:154:LEU:HD13	2.00	0.44
4:Ch:234:GLN:HA	4:Ci:198:THR:HB	1.98	0.44
4:Cn:136:LEU:HD13	4:Co:154:LEU:HD13	1.99	0.44
4:Cp:240:THR:HG22	4:Cp:244:MET:HE2	1.98	0.44
4:Cu:107:ILE:HA	4:Cu:221:ASN:HD21	1.82	0.44
4:Cw:107:ILE:HA	4:Cw:221:ASN:HD21	1.82	0.44
5:Cz:40:LEU:HD23	5:Cz:82:ALA:HA	1.99	0.44
5:De:91:ALA:HB1	5:De:174:ASN:HD21	1.83	0.44
5:Dn:91:ALA:HB1	5:Dn:174:ASN:HD21	1.83	0.44
5:Dw:205:LEU:HD11	5:Dw:236:ILE:HD11	1.99	0.44
6:Dz:269:MET:HE3	6:Dz:269:MET:HB3	1.90	0.44
6:Eb:167:VAL:HG21	6:Eb:191:ALA:HB2	1.99	0.44
6:Eh:157:LEU:HA	6:Eh:161:SER:HB2	2.00	0.44
6:Es:34:ILE:HD11	6:Es:100:MET:HB2	1.99	0.44
7:Ex:31:PRO:HB3	7:Ex:156:VAL:HG21	2.00	0.44
7:Fd:175:TYR:HE1	7:Fd:209:TYR:HB2	1.83	0.44
7:Fw:185:LEU:HD22	7:Fw:199:SER:HB3	1.99	0.44
10:Ix:227:THR:HA	10:Ix:272:ARG:O	2.18	0.44
10:Ix:272:ARG:HD3	10:Iy:272:ARG:HH11	1.82	0.44
10:Jl:223:LYS:HB2	10:Jl:300:LEU:HB2	1.99	0.44
11:Kd:29:TRP:HB3	11:Kd:118:ARG:HE	1.82	0.44
11:Kp:65:LEU:HD21	11:Kp:119:LEU:HB2	2.00	0.44
11:Ku:65:LEU:HD21	11:Ku:119:LEU:HB2	1.99	0.44
11:Lm:65:LEU:HD21	11:Lm:119:LEU:HB2	2.00	0.44
11:Ls:29:TRP:HB3	11:Ls:118:ARG:HE	1.82	0.44
12:Mn:219:ILE:HG23	12:Mo:192:LEU:HD12	2.00	0.44
12:Mv:219:ILE:HG23	12:Mw:192:LEU:HD12	2.00	0.44
12:Oa:219:ILE:HG23	12:Ob:192:LEU:HD12	2.00	0.44
13:On:432:ILE:HG23	13:On:437:TYR:HB3	1.99	0.44
13:Ot:298:GLU:HB2	13:Ot:394:ARG:HB2	1.98	0.44
13:Pm:384:HIS:HB3	13:Pn:305:GLU:HB2	2.00	0.44
1:Aa:55:GLN:HA	1:Aa:61:ARG:HE	1.83	0.44
1:Aj:86:VAL:HG12	1:Aj:96:MET:HE1	1.99	0.44
1:Ao:239:ARG:HD3	1:Ao:239:ARG:HA	1.71	0.44
1:Ax:129:VAL:HG12	1:Ax:136:ARG:HA	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ay:141:ILE:HG21	1:Ay:158:VAL:HG11	2.00	0.44
1:Bb:257:PHE:HA	1:Bb:260:GLN:HB3	1.99	0.44
4:By:113:GLU:HB2	4:By:172:MET:HB3	1.99	0.44
4:Ci:240:THR:HG22	4:Ci:244:MET:HE2	1.98	0.44
4:Ck:136:LEU:HD13	4:Cl:154:LEU:HD13	1.99	0.44
5:Cz:255:ARG:HH12	5:Db:136:ASN:HB3	1.83	0.44
5:Da:189:SER:HA	5:Da:216:ALA:HB2	1.99	0.44
5:Dd:40:LEU:HD23	5:Dd:82:ALA:HA	1.99	0.44
5:Do:83:VAL:HG12	5:Do:105:SER:HA	2.00	0.44
5:Do:91:ALA:HB1	5:Do:174:ASN:HD21	1.82	0.44
5:Dq:205:LEU:HD11	5:Dq:236:ILE:HD11	1.98	0.44
6:Ec:86:ARG:HH22	11:Jz:77:ARG:HH12	1.66	0.44
6:Ep:373:MET:HE3	6:Ep:373:MET:HB2	1.88	0.44
6:Eq:220:PHE:HE2	6:Eq:273:VAL:HG11	1.82	0.44
6:Et:326:PHE:HD2	6:Et:328:ASP:H	1.66	0.44
7:Fu:185:LEU:HD22	7:Fu:199:SER:HB3	2.00	0.44
8:Fx:147:ARG:HD3	8:Fx:170:TRP:HB3	2.00	0.44
10:Ja:227:THR:HA	10:Ja:272:ARG:O	2.18	0.44
10:Jn:272:ARG:HD3	10:Jo:272:ARG:HH11	1.82	0.44
10:Js:223:LYS:HB2	10:Js:300:LEU:HB2	1.99	0.44
10:Jt:227:THR:HA	10:Jt:272:ARG:O	2.18	0.44
11:Ka:29:TRP:HB3	11:Ka:118:ARG:HE	1.82	0.44
11:Kf:71:GLY:HA2	11:Kg:99:ARG:HG2	1.99	0.44
11:Kx:65:LEU:HD21	11:Kx:119:LEU:HB2	2.00	0.44
11:Kz:71:GLY:HA2	11:La:99:ARG:HG2	2.00	0.44
11:Lk:71:GLY:HA2	11:Ll:99:ARG:HG2	2.00	0.44
12:Nu:219:ILE:HG23	12:Nv:192:LEU:HD12	2.00	0.44
1:At:104:GLN:HB2	1:At:138:GLN:HG2	1.99	0.44
1:Bb:129:VAL:HG12	1:Bb:136:ARG:HA	2.00	0.44
3:Bq:320:LEU:HD13	3:Bq:333:ALA:HB1	2.00	0.44
4:Ca:136:LEU:HD13	4:Cb:154:LEU:HD13	2.00	0.44
4:Cb:129:ASN:HB2	4:Cb:156:ASN:HB3	1.99	0.44
4:Cf:231:ALA:HB3	4:Cg:195:LYS:HG3	1.99	0.44
4:Ch:231:ALA:HB3	4:Ci:195:LYS:HG3	2.00	0.44
4:Cj:234:GLN:HA	4:Ck:198:THR:HB	1.98	0.44
4:Ck:113:GLU:HB2	4:Ck:172:MET:HB3	1.99	0.44
4:Cr:134:ASP:HB2	4:Cs:155:LYS:HB2	2.00	0.44
5:Cy:40:LEU:HD23	5:Cy:82:ALA:HA	1.99	0.44
5:Db:40:LEU:HD23	5:Db:82:ALA:HA	2.00	0.44
5:De:189:SER:HA	5:De:216:ALA:HB2	2.00	0.44
5:Dj:255:ARG:HH12	5:Dl:136:ASN:HB3	1.83	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ep:182:ILE:HG23	6:Ep:194:ILE:HD12	1.99	0.44
6:Et:92:GLU:HB2	6:Et:103:ARG:HB3	1.99	0.44
6:Eu:262:TRP:HA	6:Eu:267:GLY:HA3	2.00	0.44
7:Fh:104:ILE:HG23	7:Fi:145:ARG:HD3	2.00	0.44
7:Fu:249:PHE:HB3	7:Fu:254:LEU:HD23	1.99	0.44
10:Je:227:THR:HA	10:Je:272:ARG:O	2.18	0.44
10:Jh:259:GLU:HG3	10:Jh:266:HIS:HD2	1.83	0.44
10:Jl:259:GLU:HG3	10:Jl:266:HIS:HD2	1.83	0.44
10:Jl:272:ARG:HD3	10:Jm:272:ARG:HH11	1.82	0.44
10:Jn:259:GLU:HG3	10:Jn:266:HIS:HD2	1.83	0.44
11:Kd:65:LEU:HD21	11:Kd:119:LEU:HB2	1.99	0.44
13:Os:259:ALA:O	13:Os:263:GLU:HG2	2.17	0.44
13:Pi:315:THR:HB	13:Pj:313:PRO:HG3	1.99	0.44
13:Po:274:LEU:HD11	13:Po:435:VAL:HB	1.99	0.44
1:Ab:59:ASN:HD21	1:Aj:108:PRO:HB3	1.83	0.44
1:Aj:7:VAL:HG11	1:As:24:ASN:HA	1.99	0.44
1:Ax:96:MET:HE3	1:Ax:221:GLU:H	1.83	0.44
3:Bn:330:SER:HB3	3:Bn:342:THR:HG23	2.00	0.44
4:By:64:PRO:HB2	4:Bz:38:VAL:HG13	1.99	0.44
4:Ca:107:ILE:HA	4:Ca:221:ASN:HD21	1.82	0.44
4:Cc:107:ILE:HA	4:Cc:221:ASN:HD21	1.82	0.44
4:Ce:231:ALA:HB3	4:Cf:195:LYS:HG3	1.99	0.44
4:Ch:136:LEU:HD13	4:Ci:154:LEU:HD13	2.00	0.44
4:Cn:240:THR:HG22	4:Cn:244:MET:HE2	1.98	0.44
4:Ct:119:LYS:HD2	4:Cv:199:LEU:HB2	2.00	0.44
5:Da:40:LEU:HD23	5:Da:82:ALA:HA	1.99	0.44
5:Df:91:ALA:HB1	5:Df:174:ASN:HD21	1.83	0.44
5:Dm:255:ARG:HH12	5:Do:136:ASN:HB3	1.83	0.44
6:Et:342:ILE:HG21	6:Et:367:ILE:HD11	2.00	0.44
6:Ev:201:ASP:HB3	6:Ev:221:ALA:HB3	1.99	0.44
6:Ew:80:PHE:HA	9:Hw:136:VAL:HG21	1.99	0.44
7:Fe:64:ALA:HB2	7:Fe:172:LEU:HD22	2.00	0.44
7:Fh:78:ARG:HB3	7:Fh:143:GLN:HE22	1.83	0.44
7:Fi:93:PRO:HD3	7:Fi:133:ARG:HA	1.98	0.44
7:Fp:31:PRO:HB3	7:Fp:156:VAL:HG21	2.00	0.44
7:Fw:249:PHE:HB3	7:Fw:254:LEU:HD23	2.00	0.44
8:Gl:69:ILE:HG21	10:Jq:238:GLU:HB2	2.00	0.44
8:Gn:147:ARG:HD3	8:Gn:170:TRP:HB3	2.00	0.44
10:Iz:259:GLU:HG3	10:Iz:266:HIS:HD2	1.83	0.44
10:Jj:259:GLU:HG3	10:Jj:266:HIS:HD2	1.83	0.44
10:Jo:227:THR:HA	10:Jo:272:ARG:O	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Jy:65:LEU:HD21	11:Jy:119:LEU:HB2	1.99	0.44
11:Kb:65:LEU:HD21	11:Kb:119:LEU:HB2	2.00	0.44
11:Kl:65:LEU:HD21	11:Kl:119:LEU:HB2	2.00	0.44
11:Km:29:TRP:HB3	11:Km:118:ARG:HE	1.82	0.44
11:Kt:29:TRP:HB3	11:Kt:118:ARG:HE	1.82	0.44
11:Ky:65:LEU:HD21	11:Ky:119:LEU:HB2	2.00	0.44
11:La:65:LEU:HD21	11:La:119:LEU:HB2	2.00	0.44
11:Mc:29:TRP:HB3	11:Mc:118:ARG:HE	1.82	0.44
12:Me:219:ILE:HG23	12:Mf:192:LEU:HD12	2.00	0.44
12:Mk:219:ILE:HG23	12:Ml:192:LEU:HD12	1.99	0.44
12:Nh:219:ILE:HG23	12:Ni:192:LEU:HD12	2.00	0.44
12:Of:219:ILE:HG23	12:Og:192:LEU:HD12	2.00	0.44
13:Oq:270:GLN:HG3	13:Oq:299:LEU:HD11	2.00	0.44
13:Pi:290:ASN:HA	13:Pi:452:PHE:HE2	1.83	0.44
1:Ad:238:GLN:HG3	3:Br:426:LEU:HD21	1.99	0.43
1:Am:25:ASN:HD21	1:Am:36:LYS:HB2	1.83	0.43
1:Az:114:TYR:HE2	1:Az:195:PRO:HG3	1.83	0.43
1:Bb:148:ILE:HB	1:Bb:161:ARG:HB3	1.99	0.43
3:Bf:374:LYS:HE2	3:Bf:376:TRP:HE1	1.83	0.43
4:Cc:119:LYS:HD2	4:Ce:199:LEU:HB2	2.00	0.43
4:Ce:119:LYS:HD2	4:Cg:199:LEU:HB2	2.00	0.43
4:Cg:234:GLN:HA	4:Ch:198:THR:HB	1.99	0.43
4:Cj:136:LEU:HD13	4:Ck:154:LEU:HD13	2.00	0.43
4:Ck:240:THR:HG22	4:Ck:244:MET:HE2	1.99	0.43
4:Cm:119:LYS:HD2	4:Co:199:LEU:HB2	1.99	0.43
4:Cm:240:THR:HG22	4:Cm:244:MET:HE2	1.99	0.43
4:Cu:136:LEU:HD13	4:Cv:154:LEU:HD13	2.00	0.43
5:Cy:189:SER:HA	5:Cy:216:ALA:HB2	1.99	0.43
5:Dl:255:ARG:HH12	5:Dn:136:ASN:HB3	1.83	0.43
5:Dr:103:VAL:HB	5:Dr:137:LEU:HD21	1.99	0.43
6:Eg:70:LEU:HG	9:Hg:136:VAL:HG13	2.00	0.43
6:Em:167:VAL:HG21	6:Em:191:ALA:HB2	1.99	0.43
6:Er:255:ASP:HB3	6:Er:258:SER:HB3	1.99	0.43
6:Es:304:MET:HE2	6:Es:356:LEU:HD21	2.00	0.43
6:Et:269:MET:HE3	6:Et:269:MET:HB3	1.84	0.43
6:Ew:262:TRP:HA	6:Ew:267:GLY:HA3	2.00	0.43
7:Fl:68:ILE:HD11	7:Fm:112:GLN:HE21	1.82	0.43
7:Fq:64:ALA:HB2	7:Fq:172:LEU:HD22	1.99	0.43
10:Jp:250:ARG:HH21	10:Jp:293:ARG:HH21	1.66	0.43
10:Jq:226:VAL:HG21	10:Jq:254:VAL:HB	2.00	0.43
11:Kj:29:TRP:HB3	11:Kj:118:ARG:HE	1.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Lq:65:LEU:HD21	11:Lq:119:LEU:HB2	2.00	0.43
11:Lr:65:LEU:HD21	11:Lr:119:LEU:HB2	2.00	0.43
12:Mi:219:ILE:HG23	12:Mj:192:LEU:HD12	2.00	0.43
12:Nf:219:ILE:HG23	12:Ng:192:LEU:HD12	2.00	0.43
12:Nm:219:ILE:HG23	12:Nn:192:LEU:HD12	2.00	0.43
12:Og:219:ILE:HG23	12:Oh:192:LEU:HD12	2.00	0.43
13:Ok:308:ARG:HB2	13:Ok:383:SER:HB3	2.00	0.43
13:Oo:285:ILE:HD13	13:Op:450:MET:HE3	2.00	0.43
13:Pn:385:GLU:HG2	13:Po:304:VAL:HG22	2.00	0.43
13:Pp:309:LYS:HG2	13:Pp:311:PHE:HE1	1.83	0.43
1:Ae:216:ARG:HB3	1:Ae:219:MET:HE3	2.00	0.43
4:Cb:231:ALA:HB3	4:Cc:195:LYS:HG3	1.99	0.43
4:Ci:119:LYS:HD2	4:Ck:199:LEU:HB2	2.00	0.43
4:Cj:240:THR:HG22	4:Cj:244:MET:HE2	1.99	0.43
4:Cs:136:LEU:HD13	4:Ct:154:LEU:HD13	2.00	0.43
5:Da:205:LEU:HD11	5:Da:236:ILE:HD11	1.99	0.43
5:Dc:255:ARG:HH12	5:De:136:ASN:HB3	1.82	0.43
5:Di:205:LEU:HD11	5:Di:236:ILE:HD11	2.00	0.43
5:Du:189:SER:HA	5:Du:216:ALA:HB2	2.00	0.43
6:Ea:209:LYS:HD2	6:Ea:212:GLN:HB2	2.00	0.43
7:Ey:169:ILE:HG13	7:Ey:172:LEU:HD12	2.00	0.43
7:Fh:175:TYR:HE1	7:Fh:209:TYR:HB2	1.83	0.43
8:Fz:192:LEU:HD12	8:Fz:196:MET:HE2	2.00	0.43
10:Jp:259:GLU:HG3	10:Jp:266:HIS:HD2	1.83	0.43
11:Kr:65:LEU:HD21	11:Kr:119:LEU:HB2	2.00	0.43
11:Lb:29:TRP:HB3	11:Lb:118:ARG:HE	1.83	0.43
11:Ld:65:LEU:HD21	11:Ld:119:LEU:HB2	2.00	0.43
12:Md:192:LEU:HD12	12:Oi:219:ILE:HG23	2.00	0.43
12:Nd:219:ILE:HG23	12:Ne:192:LEU:HD12	2.00	0.43
12:Ny:219:ILE:HG23	12:Nz:192:LEU:HD12	2.00	0.43
13:Ol:297:ILE:HG12	13:Ol:395:GLN:HG2	2.00	0.43
13:Pp:274:LEU:HD12	13:Pp:295:VAL:HG11	2.00	0.43
1:Ad:226:ASN:HB3	1:Ad:229:GLU:HB2	1.99	0.43
1:Am:185:LEU:HB3	1:Am:193:TYR:HB3	1.99	0.43
3:Bh:357:LEU:HB3	3:Bh:365:TRP:HB3	2.01	0.43
3:Bl:13:GLN:HA	3:Bl:16:LEU:HD12	2.01	0.43
2:Bw:76:ARG:HG2	2:Bw:78:LEU:H	1.83	0.43
4:Bx:119:LYS:HD2	4:Bz:199:LEU:HB2	2.01	0.43
4:By:200:ASN:HB3	4:By:201:THR:H	1.68	0.43
4:Cd:231:ALA:HB3	4:Ce:195:LYS:HG3	1.99	0.43
4:Cf:107:ILE:HA	4:Cf:221:ASN:HD21	1.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ch:119:LYS:HD2	4:Cj:199:LEU:HB2	2.00	0.43
4:Co:240:THR:HG22	4:Co:244:MET:HE2	1.99	0.43
4:Cp:36:ASP:HB3	4:Cp:39:GLU:HG2	2.00	0.43
4:Cv:136:LEU:HD13	4:Cw:154:LEU:HD13	2.00	0.43
5:Cx:83:VAL:HG12	5:Cx:105:SER:HA	2.00	0.43
5:Da:91:ALA:HB1	5:Da:174:ASN:HD21	1.82	0.43
5:De:342:MET:HE2	5:Dg:138:VAL:HG21	2.00	0.43
5:Dg:83:VAL:HG12	5:Dg:105:SER:HA	2.01	0.43
5:Dk:40:LEU:HD23	5:Dk:82:ALA:HA	1.99	0.43
5:Ds:40:LEU:HD23	5:Ds:82:ALA:HA	2.00	0.43
5:Du:40:LEU:HD23	5:Du:82:ALA:HA	2.00	0.43
6:Dy:80:PHE:HA	9:Gy:136:VAL:HG21	2.00	0.43
6:Ed:167:VAL:HG21	6:Ed:191:ALA:HB2	1.99	0.43
6:Er:358:VAL:HG12	6:Er:360:GLN:H	1.83	0.43
6:Ev:373:MET:HE3	6:Ev:373:MET:HB2	1.90	0.43
7:Fp:68:ILE:HD11	7:Fq:112:GLN:HE21	1.83	0.43
7:Fu:64:ALA:HB2	7:Fu:172:LEU:HD22	1.99	0.43
9:Hz:139:LYS:HA	9:Hz:139:LYS:HD2	1.82	0.43
10:Jc:223:LYS:HB2	10:Jc:300:LEU:HB2	2.01	0.43
10:Jk:223:LYS:HB2	10:Jk:300:LEU:HB2	2.01	0.43
10:Jq:250:ARG:HH21	10:Jq:293:ARG:HH21	1.66	0.43
11:Jz:65:LEU:HD21	11:Jz:119:LEU:HB2	2.00	0.43
11:Ll:65:LEU:HD21	11:Ll:119:LEU:HB2	2.01	0.43
12:Mg:219:ILE:HG23	12:Mh:192:LEU:HD12	2.00	0.43
13:Oj:327:TYR:HB2	13:Ok:368:VAL:HB	2.00	0.43
13:Oj:428:ARG:O	13:Oj:432:ILE:HG12	2.18	0.43
13:Oz:436:GLY:HA2	13:Pa:396:THR:HG21	2.00	0.43
1:Ao:243:MET:HE1	1:Ap:231:LEU:HG	1.99	0.43
1:As:52:PRO:HG3	1:As:65:GLY:H	1.84	0.43
3:Be:351:VAL:HG11	3:Be:357:LEU:HD21	2.00	0.43
4:Bz:113:GLU:HB2	4:Bz:172:MET:HB3	1.99	0.43
5:Da:342:MET:HE2	5:Dc:138:VAL:HG21	2.00	0.43
5:Dd:205:LEU:HD11	5:Dd:236:ILE:HD11	1.99	0.43
5:Dg:255:ARG:HH12	5:Di:136:ASN:HB3	1.83	0.43
5:Dk:255:ARG:HH12	5:Dm:136:ASN:HB3	1.84	0.43
5:Dl:103:VAL:HB	5:Dl:137:LEU:HD21	2.00	0.43
5:Ds:205:LEU:HD11	5:Ds:236:ILE:HD11	1.99	0.43
5:Du:91:ALA:HB1	5:Du:174:ASN:HD21	1.82	0.43
5:Du:255:ARG:HH12	5:Dw:136:ASN:HB3	1.84	0.43
5:Dv:40:LEU:HD23	5:Dv:82:ALA:HA	2.00	0.43
6:Dy:88:ILE:HG23	6:Dy:106:ILE:HG12	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ed:227:PHE:HD1	6:Ed:234:GLU:HA	1.83	0.43
6:Ek:304:MET:HE2	6:Ek:356:LEU:HD21	2.00	0.43
6:Eq:226:VAL:HB	6:Eq:236:MET:HB3	2.01	0.43
6:Es:28:VAL:HG13	6:Es:49:ALA:HB1	2.00	0.43
6:Ew:126:ILE:HG13	6:Ew:154:ASN:HB2	2.01	0.43
7:Ez:175:TYR:HE1	7:Ez:209:TYR:HB2	1.83	0.43
7:Fe:169:ILE:HG13	7:Fe:172:LEU:HD12	2.01	0.43
7:Fk:184:ILE:HG12	7:Fk:286:VAL:HG22	2.00	0.43
10:Jd:223:LYS:HB2	10:Jd:300:LEU:HB2	1.99	0.43
10:Jd:272:ARG:HD3	10:Je:272:ARG:HH11	1.82	0.43
10:Ji:227:THR:HA	10:Ji:272:ARG:O	2.17	0.43
10:Jw:170:GLU:HG3	10:Jw:176:ILE:HG13	2.01	0.43
11:Ld:71:GLY:HA2	11:Le:99:ARG:HG2	2.00	0.43
11:Lz:65:LEU:HD21	11:Lz:119:LEU:HB2	2.00	0.43
12:Mp:219:ILE:HG23	12:Mq:192:LEU:HD12	2.01	0.43
12:Ob:219:ILE:HG23	12:Oc:192:LEU:HD12	2.00	0.43
13:Oz:322:TYR:HB3	13:Oz:373:THR:HB	2.00	0.43
13:Pa:437:TYR:HD1	13:Pa:443:ASP:HB2	1.83	0.43
13:Ph:296:ASP:O	13:Ph:395:GLN:HA	2.18	0.43
13:Ph:297:ILE:HG23	13:Ph:392:ILE:HG23	1.99	0.43
1:Ac:32:ILE:HG23	1:Ac:220:LEU:HD13	2.01	0.43
1:Ac:129:VAL:HG12	1:Ac:136:ARG:HA	2.00	0.43
1:Af:98:GLU:O	1:Af:213:GLY:HA3	2.19	0.43
1:Ag:38:ARG:HG3	1:Ag:78:GLN:HB3	2.01	0.43
1:Ag:148:ILE:HB	1:Ag:161:ARG:HB2	2.01	0.43
1:Ak:262:LEU:HD23	1:Aq:249:SER:HB3	2.00	0.43
1:Ax:196:THR:HG22	2:Ba:155:ALA:HB1	1.99	0.43
4:Bz:119:LYS:HD2	4:Cb:199:LEU:HB2	2.01	0.43
4:Ca:119:LYS:HD2	4:Cc:199:LEU:HB2	2.00	0.43
4:Ca:231:ALA:HB3	4:Cb:195:LYS:HG3	1.99	0.43
4:Cb:119:LYS:HD2	4:Cd:199:LEU:HB2	2.01	0.43
4:Cf:240:THR:HG22	4:Cf:244:MET:HE2	1.99	0.43
4:Cl:119:LYS:HD2	4:Cn:199:LEU:HB2	2.00	0.43
4:Cl:136:LEU:HD13	4:Cm:154:LEU:HD13	2.00	0.43
4:Cs:119:LYS:HD2	4:Cu:199:LEU:HB2	2.00	0.43
5:Dd:342:MET:HE2	5:Df:138:VAL:HG21	1.99	0.43
5:Dl:211:SER:HB2	5:Dm:227:SER:HB3	2.01	0.43
5:Dq:103:VAL:HB	5:Dq:137:LEU:HD21	1.99	0.43
5:Dt:40:LEU:HD23	5:Dt:82:ALA:HA	2.00	0.43
5:Dw:83:VAL:HG12	5:Dw:105:SER:HA	2.01	0.43
6:Eg:86:ARG:NH2	11:Kj:73:ARG:HH12	2.16	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ei:125:LEU:HD11	6:Ei:170:THR:HB	1.99	0.43
6:Ej:262:TRP:HA	6:Ej:267:GLY:HA3	1.99	0.43
6:Ev:342:ILE:HG21	6:Ev:367:ILE:HD11	2.01	0.43
7:Ff:175:TYR:HE1	7:Ff:209:TYR:HB2	1.83	0.43
7:Fk:169:ILE:HG13	7:Fk:172:LEU:HD12	2.01	0.43
7:Fm:185:LEU:HD22	7:Fm:199:SER:HB3	1.99	0.43
10:Ja:170:GLU:HG3	10:Ja:176:ILE:HG13	2.01	0.43
10:Jp:223:LYS:HB2	10:Jp:300:LEU:HB2	2.00	0.43
10:Jv:259:GLU:HG3	10:Jv:266:HIS:HD2	1.83	0.43
11:Kn:71:GLY:HA2	11:Ko:99:ARG:HG2	2.01	0.43
12:Mt:219:ILE:HG23	12:Mu:192:LEU:HD12	2.01	0.43
12:Ns:219:ILE:HG23	12:Nt:192:LEU:HD12	2.01	0.43
13:Ol:431:LEU:HD23	13:Ol:445:LEU:HD11	1.99	0.43
13:Or:428:ARG:O	13:Or:432:ILE:HG12	2.18	0.43
13:Oz:326:ASP:HB3	13:Oz:369:HIS:HB3	2.01	0.43
13:Pb:385:GLU:HG2	13:Pc:304:VAL:HG22	2.00	0.43
13:Pf:317:ALA:HB1	13:Pg:378:LEU:HD12	2.00	0.43
1:Ah:51:GLN:HE22	1:At:161:ARG:HH11	1.67	0.43
1:Ao:98:GLU:O	1:Ao:213:GLY:CA	2.66	0.43
1:Av:115:SER:HB2	1:Av:192:LEU:HD23	2.01	0.43
3:Bm:51:LYS:HE2	3:Bm:51:LYS:HB2	1.91	0.43
3:Bt:26:ALA:HA	3:Bt:397:ILE:HD11	2.01	0.43
2:Bv:223:ARG:HA	2:Bv:223:ARG:HD3	1.83	0.43
4:Cb:33:THR:HG23	4:Cb:35:VAL:H	1.84	0.43
4:Ck:119:LYS:HD2	4:Cm:199:LEU:HB2	2.00	0.43
4:Cm:136:LEU:HD13	4:Cn:154:LEU:HD13	2.00	0.43
5:Cy:205:LEU:HD11	5:Cy:236:ILE:HD11	2.00	0.43
5:Df:205:LEU:HD11	5:Df:236:ILE:HD11	1.99	0.43
5:Do:342:MET:HE2	5:Dq:138:VAL:HG21	2.00	0.43
5:Dq:40:LEU:HD23	5:Dq:82:ALA:HA	2.00	0.43
5:Dr:40:LEU:HD23	5:Dr:82:ALA:HA	2.00	0.43
5:Dw:91:ALA:HB1	5:Dw:174:ASN:HD21	1.82	0.43
6:En:86:ARG:HG3	11:Ky:73:ARG:HD2	1.99	0.43
6:Ew:88:ILE:HG12	6:Ew:106:ILE:HG23	2.00	0.43
7:Fc:93:PRO:HD3	7:Fc:133:ARG:HA	2.00	0.43
7:Fr:112:GLN:HE21	7:Fr:112:GLN:HB3	1.62	0.43
10:Iz:227:THR:HA	10:Iz:272:ARG:O	2.18	0.43
10:Jb:223:LYS:HB2	10:Jb:300:LEU:HB2	2.00	0.43
10:Jd:227:THR:HA	10:Jd:272:ARG:O	2.18	0.43
10:Jg:223:LYS:HB2	10:Jg:300:LEU:HB2	2.01	0.43
10:Ji:223:LYS:HB2	10:Ji:300:LEU:HB2	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Jk:227:THR:HA	10:Jk:272:ARG:O	2.18	0.43
10:Jm:227:THR:HA	10:Jm:272:ARG:O	2.18	0.43
10:Jn:227:THR:HA	10:Jn:272:ARG:O	2.18	0.43
10:Jo:223:LYS:HB2	10:Jo:300:LEU:HB2	2.01	0.43
10:Jq:227:THR:HA	10:Jq:272:ARG:O	2.18	0.43
10:Ju:226:VAL:HG21	10:Ju:254:VAL:HB	2.00	0.43
11:Jy:29:TRP:HB3	11:Jy:118:ARG:HE	1.84	0.43
11:Kc:71:GLY:HA2	11:Kd:99:ARG:HG2	2.00	0.43
11:Ma:65:LEU:HD21	11:Ma:119:LEU:HB2	2.00	0.43
12:Mh:219:ILE:HG23	12:Mi:192:LEU:HD12	2.01	0.43
12:Nb:219:ILE:HG23	12:Nc:192:LEU:HD12	2.01	0.43
13:Ok:385:GLU:HG2	13:Ol:304:VAL:HG13	2.00	0.43
13:Oo:430:VAL:HG23	13:Op:448:LEU:HD12	2.00	0.43
13:Oq:322:TYR:HB3	13:Oq:373:THR:HB	2.00	0.43
1:Ae:24:ASN:HA	3:Bq:4:VAL:HG11	2.01	0.43
1:Aq:63:PRO:HA	1:Ar:198:ALA:HB1	2.01	0.43
1:Ar:94:ASP:HB3	1:Ar:220:LEU:HD13	2.01	0.43
1:Bb:226:ASN:O	1:Bb:230:GLU:HG2	2.19	0.43
3:Bm:357:LEU:HB3	3:Bm:365:TRP:HB3	2.01	0.43
3:Bo:359:LYS:HG2	3:Bo:365:TRP:CD1	2.54	0.43
3:Bs:353:ASN:HD22	3:Bt:111:LEU:HB2	1.84	0.43
4:By:199:LEU:HB2	4:Cw:119:LYS:HD2	2.01	0.43
4:Cb:113:GLU:HB2	4:Cb:172:MET:HB3	2.00	0.43
4:Cb:240:THR:HG22	4:Cb:244:MET:HE2	2.00	0.43
4:Cg:119:LYS:HD2	4:Ci:199:LEU:HB2	2.01	0.43
4:Ci:64:PRO:HB2	4:Cj:38:VAL:HG13	2.01	0.43
4:Cj:119:LYS:HD2	4:Cl:199:LEU:HB2	2.00	0.43
4:Ck:107:ILE:HA	4:Ck:221:ASN:HD21	1.82	0.43
4:Cn:36:ASP:HB3	4:Cn:39:GLU:HG2	2.00	0.43
4:Co:119:LYS:HD2	4:Cq:199:LEU:HB2	2.00	0.43
4:Co:136:LEU:HD13	4:Cp:154:LEU:HD13	1.99	0.43
4:Cs:107:ILE:HA	4:Cs:221:ASN:HD21	1.83	0.43
5:Dc:205:LEU:HD11	5:Dc:236:ILE:HD11	1.99	0.43
5:Dp:83:VAL:HG12	5:Dp:105:SER:HA	2.01	0.43
5:Dw:40:LEU:HD23	5:Dw:82:ALA:HA	1.99	0.43
6:Dy:262:TRP:HA	6:Dy:267:GLY:HA3	2.01	0.43
6:Ea:182:ILE:HG23	6:Ea:194:ILE:HD12	1.99	0.43
6:Eb:373:MET:HE3	6:Eb:373:MET:HB2	1.92	0.43
6:Ec:87:TYR:HE1	11:Kb:99:ARG:HH22	1.65	0.43
6:Ef:342:ILE:HG21	6:Ef:367:ILE:HD11	2.00	0.43
6:El:92:GLU:HB2	6:El:103:ARG:HB3	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:En:88:ILE:HG23	6:En:106:ILE:HG12	1.99	0.43
6:En:249:PRO:HG2	6:En:252:SER:HB3	2.00	0.43
6:Ep:227:PHE:HD1	6:Ep:234:GLU:HA	1.83	0.43
6:Es:249:PRO:HG2	6:Es:252:SER:HB3	2.01	0.43
6:Et:373:MET:HE3	6:Et:373:MET:HB2	1.89	0.43
6:Ew:304:MET:HE2	6:Ew:356:LEU:HD21	2.00	0.43
7:Fi:169:ILE:HG13	7:Fi:172:LEU:HD12	2.01	0.43
7:Fs:116:TYR:HE2	8:Gs:198:GLU:HB3	1.83	0.43
7:Fu:221:VAL:HB	7:Fu:261:VAL:HG12	2.00	0.43
10:Jj:250:ARG:HH21	10:Jj:293:ARG:HH21	1.67	0.43
10:Jm:223:LYS:HB2	10:Jm:300:LEU:HB2	2.01	0.43
10:Jm:226:VAL:HG21	10:Jm:254:VAL:HB	2.00	0.43
10:Jr:223:LYS:HB2	10:Jr:300:LEU:HB2	2.01	0.43
10:Jw:223:LYS:HB2	10:Jw:300:LEU:HB2	2.01	0.43
11:Ke:65:LEU:HD21	11:Ke:119:LEU:HB2	2.01	0.43
11:Kn:65:LEU:HD21	11:Kn:119:LEU:HB2	2.01	0.43
12:Md:219:ILE:HG23	12:Me:192:LEU:HD12	2.01	0.43
12:Mf:219:ILE:HG23	12:Mg:192:LEU:HD12	2.01	0.43
12:Oe:219:ILE:HG23	12:Of:192:LEU:HD12	2.01	0.43
12:Oh:219:ILE:HG23	12:Oi:192:LEU:HD12	2.01	0.43
13:Ou:306:GLN:HB3	13:Ou:385:GLU:HB3	1.99	0.43
13:Pd:322:TYR:HB3	13:Pd:373:THR:HB	2.01	0.43
13:Pp:278:ILE:HG23	13:Pp:282:LEU:HD23	2.01	0.43
1:Ar:25:ASN:HD21	1:Ar:37:GLY:H	1.66	0.43
2:Bw:82:ILE:HD11	2:Bw:88:ILE:HD11	1.99	0.43
4:Cs:200:ASN:HB3	4:Cs:201:THR:H	1.68	0.43
4:Cu:129:ASN:HB2	4:Cu:156:ASN:HB3	2.01	0.43
5:Cx:40:LEU:HD23	5:Cx:82:ALA:HA	2.00	0.43
5:Cy:103:VAL:HB	5:Cy:137:LEU:HD21	2.00	0.43
5:Dg:40:LEU:HD23	5:Dg:82:ALA:HA	2.00	0.43
5:Dh:255:ARG:HH12	5:Dj:136:ASN:HB3	1.84	0.43
5:Di:40:LEU:HD23	5:Di:82:ALA:HA	1.99	0.43
5:Dm:40:LEU:HD23	5:Dm:82:ALA:HA	1.99	0.43
5:Dp:40:LEU:HD23	5:Dp:82:ALA:HA	1.99	0.43
5:Dp:255:ARG:HH12	5:Dr:136:ASN:HB3	1.84	0.43
5:Dq:83:VAL:HG12	5:Dq:105:SER:HA	2.01	0.43
5:Ds:255:ARG:HH12	5:Du:136:ASN:HB3	1.84	0.43
6:Dx:255:ASP:HB3	6:Dx:258:SER:HB3	2.01	0.43
6:Ea:239:THR:HG21	6:Eb:155:ARG:HD3	2.00	0.43
6:Er:71:LEU:HD13	6:Er:80:PHE:HZ	1.84	0.43
8:Gj:202:ALA:HA	8:Gj:205:LYS:HZ2	1.84	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Jc:170:GLU:HG3	10:Jc:176:ILE:HG13	2.01	0.43
10:Jh:227:THR:HA	10:Jh:272:ARG:O	2.18	0.43
10:Js:226:VAL:HG21	10:Js:254:VAL:HB	2.00	0.43
11:Kg:65:LEU:HD21	11:Kg:119:LEU:HB2	2.00	0.43
11:Ky:71:GLY:HA2	11:Kz:99:ARG:HG2	2.01	0.43
11:Lg:65:LEU:HD21	11:Lg:119:LEU:HB2	2.01	0.43
12:Mm:219:ILE:HG23	12:Mn:192:LEU:HD12	2.00	0.43
12:Nq:219:ILE:HG23	12:Nr:192:LEU:HD12	2.00	0.43
13:Pg:295:VAL:HG13	13:Pg:397:VAL:HG22	2.01	0.43
1:Ac:159:SER:HB2	1:Ac:168:ASN:HB3	2.01	0.43
1:Ak:41:PHE:HB3	1:Aq:31:THR:HG23	2.01	0.43
1:At:250:ALA:HA	1:At:253:LYS:HE3	2.01	0.43
3:Bm:433:ILE:HD12	3:Bm:433:ILE:HA	1.94	0.43
3:Br:148:PRO:HD2	3:Br:343:LEU:HD13	2.01	0.43
3:Bu:36:ALA:HA	3:Bu:63:VAL:HA	2.01	0.43
4:Ca:113:GLU:HB2	4:Ca:172:MET:HB3	1.99	0.43
4:Cn:119:LYS:HD2	4:Cp:199:LEU:HB2	2.00	0.43
4:Cr:119:LYS:HD2	4:Ct:199:LEU:HB2	2.01	0.43
4:Cr:154:LEU:HD21	4:Ct:258:LEU:HD11	2.00	0.43
4:Cv:113:GLU:HB2	4:Cv:172:MET:HB3	2.01	0.43
5:Cy:138:VAL:HG21	5:Dw:342:MET:HE2	1.99	0.43
5:Da:255:ARG:HH12	5:Dc:136:ASN:HB3	1.83	0.43
5:Dd:255:ARG:HH12	5:Df:136:ASN:HB3	1.83	0.43
5:Df:83:VAL:HG12	5:Df:105:SER:HA	2.01	0.43
5:Dh:40:LEU:HD23	5:Dh:82:ALA:HA	2.00	0.43
5:Dh:83:VAL:HG12	5:Dh:105:SER:HA	2.01	0.43
5:Dl:40:LEU:HD23	5:Dl:82:ALA:HA	2.00	0.43
5:Dm:83:VAL:HG12	5:Dm:105:SER:HA	2.01	0.43
5:Dp:342:MET:HE2	5:Dr:138:VAL:HG21	1.99	0.43
5:Dt:83:VAL:HG12	5:Dt:105:SER:HA	2.01	0.43
6:Ek:111:SER:HB3	6:Ek:113:THR:HG22	2.01	0.43
6:Ek:321:TRP:HE1	6:Ek:374:HIS:CE1	2.36	0.43
6:Em:34:ILE:HD11	6:Em:100:MET:HB2	2.00	0.43
6:Ev:304:MET:HE2	6:Ev:356:LEU:HD21	2.01	0.43
7:Fg:169:ILE:HG13	7:Fg:172:LEU:HD12	2.00	0.43
7:Fn:78:ARG:HB3	7:Fn:143:GLN:HE22	1.83	0.43
7:Fo:183:THR:HG21	7:Fo:206:ILE:HD11	2.01	0.43
8:Gp:176:THR:HG22	8:Gp:185:ILE:HD12	2.01	0.43
10:Ix:259:GLU:HG3	10:Ix:266:HIS:HD2	1.83	0.43
10:Iy:250:ARG:HH21	10:Iy:293:ARG:HH21	1.67	0.43
10:Jb:227:THR:HA	10:Jb:272:ARG:O	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Jc:226:VAL:HG21	10:Jc:254:VAL:HB	2.00	0.43
10:Jf:227:THR:HA	10:Jf:272:ARG:O	2.18	0.43
10:Jj:227:THR:HA	10:Jj:272:ARG:O	2.18	0.43
10:Jn:223:LYS:HB2	10:Jn:300:LEU:HB2	2.01	0.43
11:Kz:65:LEU:HD21	11:Kz:119:LEU:HB2	2.01	0.43
11:Mb:65:LEU:HD21	11:Mb:119:LEU:HB2	2.00	0.43
13:Ou:324:LEU:HB3	13:Ou:371:GLU:HB3	2.00	0.43
13:Ov:394:ARG:HH22	13:Ov:444:LEU:HD13	1.84	0.43
13:Pd:274:LEU:HD21	13:Pd:435:VAL:HG13	2.01	0.43
13:Pf:322:TYR:HB3	13:Pf:373:THR:HB	2.01	0.43
13:Pk:274:LEU:HD11	13:Pk:435:VAL:HG13	2.01	0.43
1:Ac:52:PRO:HB3	1:Ac:64:SER:HA	2.01	0.43
1:Ah:54:ALA:HB3	1:Ah:62:LEU:HD12	2.00	0.43
1:At:176:THR:HG23	1:At:207:PRO:HG3	2.01	0.43
1:Ax:148:ILE:HD11	1:Ax:163:ARG:HB2	2.00	0.43
3:Bl:1:MET:HE2	3:Bl:1:MET:HB2	1.94	0.43
3:Bl:4:VAL:HG11	3:Bm:21:ASN:HA	2.00	0.43
3:Bt:81:LEU:HD21	3:Bt:387:ILE:HD11	1.99	0.43
4:Ch:240:THR:HG22	4:Ch:244:MET:HE2	2.00	0.43
4:Cp:119:LYS:HD2	4:Cr:199:LEU:HB2	2.01	0.43
5:Cx:255:ARG:HH12	5:Cz:136:ASN:HB3	1.84	0.43
5:Df:255:ARG:HH12	5:Dh:136:ASN:HB3	1.83	0.43
5:Dh:342:MET:HE2	5:Dj:138:VAL:HG21	2.01	0.43
5:Dn:83:VAL:HG12	5:Dn:105:SER:HA	2.01	0.43
6:Dx:167:VAL:HG21	6:Dx:191:ALA:HB2	2.00	0.43
6:Ej:86:ARG:HD3	6:Ej:86:ARG:HA	1.79	0.43
6:Es:70:LEU:HD22	9:Hs:136:VAL:HG13	2.00	0.43
6:Ew:125:LEU:HD11	6:Ew:170:THR:HB	2.01	0.43
7:Ez:197:LYS:HD3	7:Fa:292:THR:HB	2.01	0.43
7:Fe:221:VAL:HB	7:Fe:261:VAL:HG12	2.01	0.43
7:Fl:31:PRO:HB3	7:Fl:156:VAL:HG21	2.01	0.43
7:Fq:116:TYR:HE2	8:Gq:198:GLU:HB3	1.84	0.43
7:Fq:169:ILE:HG13	7:Fq:172:LEU:HD12	2.00	0.43
7:Fu:183:THR:HG21	7:Fu:206:ILE:HD11	2.01	0.43
7:Fv:197:LYS:HA	7:Fv:200:GLN:HB2	2.01	0.43
8:Gc:207:ARG:HD3	8:Gc:210:PHE:HA	2.01	0.43
10:Ix:223:LYS:HB2	10:Ix:300:LEU:HB2	1.99	0.43
10:Ja:223:LYS:HB2	10:Ja:300:LEU:HB2	2.00	0.43
10:Je:226:VAL:HG21	10:Je:254:VAL:HB	2.00	0.43
10:Jg:170:GLU:HG3	10:Jg:176:ILE:HG13	2.01	0.43
10:Jj:170:GLU:HG3	10:Jj:176:ILE:HG13	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Jl:227:THR:HA	10:Jl:272:ARG:O	2.18	0.43
10:Jl:250:ARG:HH21	10:Jl:293:ARG:HH21	1.67	0.43
11:Ki:65:LEU:HD21	11:Ki:119:LEU:HB2	2.01	0.43
12:Nc:219:ILE:HG23	12:Nd:192:LEU:HD12	2.00	0.43
12:Nn:219:ILE:HG23	12:No:192:LEU:HD12	1.99	0.43
12:Np:219:ILE:HG23	12:Nq:192:LEU:HD12	2.00	0.43
12:Nx:219:ILE:HG23	12:Ny:192:LEU:HD12	2.00	0.43
13:Ox:433:GLY:HA3	13:Oy:398:ALA:HB2	2.00	0.43
13:Pc:326:ASP:HB3	13:Pc:369:HIS:HB3	2.01	0.43
13:Pp:399:VAL:HB	13:Pp:447:VAL:HG22	2.00	0.43
1:At:144:PRO:HG2	1:At:147:ALA:HB2	2.01	0.42
1:Ay:104:GLN:HE21	1:Ay:138:GLN:HG3	1.83	0.42
3:Bk:42:TYR:HB2	3:Bn:361:GLY:HA2	2.00	0.42
3:Bm:378:GLU:H	3:Bm:381:LYS:NZ	2.17	0.42
4:Cr:137:ALA:HA	4:Cr:142:ASP:HA	2.01	0.42
5:Cy:342:MET:HE2	5:Da:138:VAL:HG21	2.01	0.42
5:Cz:259:ILE:HD11	5:Cz:342:MET:HB2	2.01	0.42
5:Dh:205:LEU:HD11	5:Dh:236:ILE:HD11	1.99	0.42
5:Dj:40:LEU:HD23	5:Dj:82:ALA:HA	2.00	0.42
5:Dl:342:MET:HE2	5:Dn:138:VAL:HG21	2.00	0.42
5:Dp:205:LEU:HD11	5:Dp:236:ILE:HD11	2.00	0.42
5:Dq:342:MET:HE2	5:Ds:138:VAL:HG21	2.00	0.42
5:Dt:255:ARG:HH12	5:Dv:136:ASN:HB3	1.85	0.42
5:Du:83:VAL:HG12	5:Du:105:SER:HA	2.01	0.42
6:Ec:182:ILE:HG23	6:Ec:194:ILE:HD12	2.00	0.42
6:Ef:255:ASP:HB3	6:Ef:258:SER:HB3	2.00	0.42
6:Ei:111:SER:HB3	6:Ei:113:THR:HG22	2.01	0.42
6:Ek:358:VAL:HG12	6:Ek:360:GLN:H	1.83	0.42
6:El:342:ILE:HG21	6:El:367:ILE:HD11	1.99	0.42
6:Eq:201:ASP:HB3	6:Eq:221:ALA:HB3	2.00	0.42
6:Ew:328:ASP:HB3	6:Ew:329:GLN:H	1.68	0.42
7:Fb:197:LYS:HA	7:Fb:200:GLN:HB2	2.01	0.42
7:Fj:197:LYS:HA	7:Fj:200:GLN:HB2	2.01	0.42
7:Fo:185:LEU:HD22	7:Fo:199:SER:HB3	2.00	0.42
8:Gu:118:TYR:HB2	8:Gu:131:ALA:HB2	2.01	0.42
9:Hv:135:GLN:H	11:Lr:73:ARG:HH12	1.65	0.42
10:Jh:250:ARG:HH21	10:Jh:293:ARG:HH21	1.67	0.42
10:Jp:227:THR:HA	10:Jp:272:ARG:O	2.18	0.42
10:Jt:223:LYS:HB2	10:Jt:300:LEU:HB2	2.00	0.42
10:Ju:170:GLU:HG3	10:Ju:176:ILE:HG13	2.01	0.42
11:Kg:29:TRP:HB3	11:Kg:118:ARG:HE	1.82	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Mq:219:ILE:HG23	12:Mr:192:LEU:HD12	2.00	0.42
12:Ms:219:ILE:HG23	12:Mt:192:LEU:HD12	2.00	0.42
12:My:219:ILE:HG23	12:Mz:192:LEU:HD12	2.00	0.42
12:Nw:219:ILE:HG23	12:Nx:192:LEU:HD12	2.01	0.42
12:Od:219:ILE:HG23	12:Oe:192:LEU:HD12	2.01	0.42
13:Pf:320:SER:HB3	13:Pf:375:ASN:HB3	2.00	0.42
1:Ad:105:ILE:HB	1:Ad:113:ALA:HB3	2.01	0.42
1:Af:115:SER:HB3	1:Af:192:LEU:HD23	2.00	0.42
1:An:32:ILE:HD12	1:An:220:LEU:HD13	2.00	0.42
1:Au:149:SER:HA	3:Bm:46:LEU:HA	2.01	0.42
3:Bg:9:LEU:HG	3:Bg:416:ASN:HB3	2.01	0.42
3:Bj:15:ASP:HB2	3:Bj:38:PHE:HZ	1.84	0.42
3:Bj:413:PHE:HZ	3:Br:400:THR:HG21	1.84	0.42
4:Cr:240:THR:HG22	4:Cr:244:MET:HE2	2.00	0.42
5:Cx:211:SER:HB2	5:Cy:227:SER:HB3	2.01	0.42
5:Db:255:ARG:HH12	5:Dd:136:ASN:HB3	1.83	0.42
5:De:103:VAL:HB	5:De:137:LEU:HD21	2.00	0.42
5:Df:40:LEU:HD23	5:Df:82:ALA:HA	2.00	0.42
5:Dh:189:SER:HA	5:Dh:216:ALA:HB2	2.01	0.42
5:Dj:189:SER:HA	5:Dj:216:ALA:HB2	2.01	0.42
5:Dn:40:LEU:HD23	5:Dn:82:ALA:HA	2.00	0.42
5:Dr:83:VAL:HG12	5:Dr:105:SER:HA	2.01	0.42
5:Dr:255:ARG:HH12	5:Dt:136:ASN:HB3	1.83	0.42
5:Ds:83:VAL:HG12	5:Ds:105:SER:HA	2.01	0.42
6:Eg:358:VAL:HG12	6:Eg:360:GLN:H	1.84	0.42
6:El:304:MET:HE2	6:El:356:LEU:HD21	2.01	0.42
6:En:88:ILE:HG12	6:En:106:ILE:HG23	2.01	0.42
6:En:269:MET:HE3	6:En:269:MET:HB3	1.90	0.42
6:Eq:321:TRP:HE1	6:Eq:374:HIS:CE1	2.37	0.42
6:Et:271:LEU:HD11	9:It:145:PHE:HD1	1.84	0.42
7:Ey:183:THR:HG21	7:Ey:206:ILE:HD11	2.01	0.42
7:Fg:221:VAL:HB	7:Fg:261:VAL:HG12	2.01	0.42
7:Fo:116:TYR:HE2	8:Go:198:GLU:HB3	1.84	0.42
7:Fr:197:LYS:HD3	7:Fs:292:THR:HB	2.01	0.42
7:Fw:25:VAL:HG13	7:Fw:149:ILE:HA	1.99	0.42
10:Ja:226:VAL:HG21	10:Ja:254:VAL:HB	2.00	0.42
10:Je:208:PRO:HA	10:Je:211:ARG:HG2	2.01	0.42
10:Jj:208:PRO:HA	10:Jj:211:ARG:HG2	2.02	0.42
10:Jn:250:ARG:HH21	10:Jn:293:ARG:HH21	1.67	0.42
10:Jo:226:VAL:HG21	10:Jo:254:VAL:HB	2.00	0.42
10:Ju:250:ARG:HH21	10:Ju:293:ARG:HH21	1.67	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Ni:219:ILE:HG23	12:Nj:192:LEU:HD12	2.01	0.42
12:Nj:219:ILE:HG23	12:Nk:192:LEU:HD12	2.00	0.42
12:Nl:219:ILE:HG23	12:Nm:192:LEU:HD12	2.00	0.42
12:Nz:219:ILE:HG23	12:Oa:192:LEU:HD12	2.00	0.42
13:Ot:296:ASP:HB3	13:Ot:396:THR:HG23	2.00	0.42
13:Ox:274:LEU:HD21	13:Ox:435:VAL:HG13	2.01	0.42
13:Pe:432:ILE:HD12	13:Pe:437:TYR:HB2	2.00	0.42
13:Pg:256:VAL:HG23	13:Pg:258:ALA:H	1.84	0.42
13:Pk:385:GLU:HG2	13:Pl:304:VAL:HG13	2.01	0.42
1:Ac:231:LEU:HD13	3:Br:430:ILE:HG22	2.01	0.42
1:Ad:1:MET:HA	1:Ad:255:MET:HE2	2.01	0.42
1:Am:40:VAL:HG13	1:An:119:GLN:HG3	2.01	0.42
3:Bk:45:SER:HA	3:Bl:85:GLY:HA2	2.01	0.42
3:Bq:38:PHE:HB3	3:Bq:60:ALA:HA	2.00	0.42
4:Cf:119:LYS:HD2	4:Ch:199:LEU:HB2	2.02	0.42
4:Cg:36:ASP:HB3	4:Cg:39:GLU:HG2	2.00	0.42
4:Cq:136:LEU:HD13	4:Cr:154:LEU:HD13	2.01	0.42
4:Ct:136:LEU:HD13	4:Cu:154:LEU:HD13	2.01	0.42
5:Cx:205:LEU:HD11	5:Cx:236:ILE:HD11	2.02	0.42
5:Da:83:VAL:HG12	5:Da:105:SER:HA	2.01	0.42
5:Dk:83:VAL:HG12	5:Dk:105:SER:HA	2.02	0.42
5:Dr:342:MET:HE2	5:Dt:138:VAL:HG21	2.00	0.42
6:Em:321:TRP:HE1	6:Em:374:HIS:CE1	2.36	0.42
6:En:262:TRP:HA	6:En:267:GLY:HA3	2.00	0.42
6:Ep:80:PHE:HA	9:Hp:136:VAL:HG21	2.00	0.42
7:Fk:185:LEU:HD22	7:Fk:199:SER:HB3	2.00	0.42
7:Ft:31:PRO:HB3	7:Ft:156:VAL:HG21	2.02	0.42
7:Ft:78:ARG:HB3	7:Ft:143:GLN:HE22	1.84	0.42
7:Fw:169:ILE:HG13	7:Fw:172:LEU:HD12	2.00	0.42
10:Jf:208:PRO:HA	10:Jf:211:ARG:HG2	2.01	0.42
10:Jl:170:GLU:HG3	10:Jl:176:ILE:HG13	2.01	0.42
10:Jl:208:PRO:HA	10:Jl:211:ARG:HG2	2.01	0.42
10:Js:250:ARG:HH21	10:Js:293:ARG:HH21	1.67	0.42
10:Ju:223:LYS:HB2	10:Ju:300:LEU:HB2	2.01	0.42
10:Jv:223:LYS:HB2	10:Jv:300:LEU:HB2	2.01	0.42
11:Lh:65:LEU:HD21	11:Lh:119:LEU:HB2	2.02	0.42
11:Ll:71:GLY:HA2	11:Lm:99:ARG:HG2	2.01	0.42
12:Nk:219:ILE:HG23	12:Nl:192:LEU:HD12	2.01	0.42
13:Oo:320:SER:HB2	13:Oo:375:ASN:HB3	1.99	0.42
13:Pa:282:LEU:HD11	13:Pa:431:LEU:HD21	2.01	0.42
13:Pc:266:LEU:HD23	13:Pc:301:PHE:HZ	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Pe:384:HIS:HB3	13:Pf:305:GLU:HB2	2.00	0.42
13:Pg:293:ALA:HA	13:Pg:398:ALA:O	2.20	0.42
13:Pn:432:ILE:HD13	13:Pn:445:LEU:HD13	2.01	0.42
1:Aj:60:THR:HG21	1:At:135:TYR:HD1	1.85	0.42
1:Aw:243:MET:HB3	1:Ax:26:LEU:HD11	2.02	0.42
2:Bd:169:LEU:HD23	2:Bd:174:LEU:HD21	2.00	0.42
3:Bh:372:GLY:HA2	3:Br:113:LYS:HG2	2.02	0.42
3:Bm:19:THR:HG21	3:Bm:406:LEU:HB2	2.01	0.42
4:Cu:154:LEU:HD21	4:Cw:258:LEU:HD11	2.00	0.42
5:Cx:103:VAL:HB	5:Cx:137:LEU:HD21	2.01	0.42
5:Cz:342:MET:HE2	5:Db:138:VAL:HG21	2.01	0.42
5:Dg:342:MET:HE2	5:Di:138:VAL:HG21	2.02	0.42
5:Dh:211:SER:HB2	5:Di:227:SER:HB3	2.01	0.42
5:Dj:205:LEU:HD11	5:Dj:236:ILE:HD11	2.00	0.42
5:Dl:83:VAL:HG12	5:Dl:105:SER:HA	2.02	0.42
5:Dv:83:VAL:HG12	5:Dv:105:SER:HA	2.02	0.42
6:Dy:269:MET:HE3	6:Dy:269:MET:HB3	1.97	0.42
6:Ee:321:TRP:HE1	6:Ee:374:HIS:CE1	2.37	0.42
6:Eh:226:VAL:HB	6:Eh:236:MET:HB3	2.02	0.42
6:Ej:179:PRO:HB3	6:Ej:333:PRO:HB3	2.01	0.42
6:Eu:157:LEU:HA	6:Eu:161:SER:HB2	2.01	0.42
6:Ev:350:TYR:HE2	6:Ev:355:GLU:HG3	1.84	0.42
7:Fj:93:PRO:HB2	7:Fj:95:TRP:HE3	1.83	0.42
8:Ga:207:ARG:HD3	8:Ga:210:PHE:HA	2.01	0.42
10:Jb:208:PRO:HA	10:Jb:211:ARG:HG2	2.02	0.42
10:Jd:208:PRO:HA	10:Jd:211:ARG:HG2	2.02	0.42
10:Jg:208:PRO:HA	10:Jg:211:ARG:HG2	2.01	0.42
10:Jg:226:VAL:HG21	10:Jg:254:VAL:HB	2.00	0.42
10:Jr:250:ARG:HH21	10:Jr:293:ARG:HH21	1.67	0.42
10:Jw:208:PRO:HA	10:Jw:211:ARG:HG2	2.01	0.42
10:Jw:250:ARG:HH21	10:Jw:293:ARG:HH21	1.67	0.42
11:Lq:71:GLY:HA2	11:Lr:99:ARG:HG2	2.00	0.42
13:On:385:GLU:HG2	13:Oo:304:VAL:HG22	2.02	0.42
13:Pi:274:LEU:HD11	13:Pi:435:VAL:HG13	2.00	0.42
13:Pn:298:GLU:HB2	13:Pn:394:ARG:HB3	2.00	0.42
1:Ai:254:MET:HE3	1:Au:238:GLN:HG3	2.01	0.42
1:Ao:178:ASP:HB2	1:Ao:212:LEU:HD21	2.01	0.42
1:Az:128:ILE:HG12	1:Az:137:LEU:HD23	2.01	0.42
1:Bb:49:ILE:HG13	1:Bb:68:LEU:HD23	2.01	0.42
3:Bi:369:GLN:HG3	3:Br:332:LEU:HD13	2.00	0.42
3:Bu:426:LEU:O	3:Bu:430:ILE:HG12	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Cv:124:ASP:HB2	4:Cw:165:ALA:HB3	2.01	0.42
5:Cy:259:ILE:HD11	5:Cy:342:MET:HB2	2.02	0.42
5:Cy:278:THR:HB	5:Cy:312:GLN:HB3	2.02	0.42
5:Dd:83:VAL:HG12	5:Dd:105:SER:HA	2.02	0.42
5:Dj:83:VAL:HG12	5:Dj:105:SER:HA	2.02	0.42
5:Dj:342:MET:HE2	5:Dl:138:VAL:HG21	2.01	0.42
5:Do:40:LEU:HD23	5:Do:82:ALA:HA	2.00	0.42
6:Dz:321:TRP:HE1	6:Dz:374:HIS:CE1	2.37	0.42
6:Ec:241:ARG:HB3	9:Id:143:THR:HG21	2.01	0.42
6:Ed:269:MET:HE3	6:Ed:269:MET:HB3	1.90	0.42
6:Eo:109:TYR:CD1	11:La:73:ARG:HD2	2.50	0.42
6:Ep:92:GLU:HB2	6:Ep:103:ARG:HB2	2.01	0.42
6:Ep:222:MET:HE2	6:Ep:222:MET:HB3	1.81	0.42
7:Ex:104:ILE:HG23	7:Ey:145:ARG:HD3	2.00	0.42
7:Ff:31:PRO:HB3	7:Ff:156:VAL:HG21	2.02	0.42
7:Fh:31:PRO:HB3	7:Fh:156:VAL:HG21	2.02	0.42
7:Fn:31:PRO:HB3	7:Fn:156:VAL:HG21	2.01	0.42
7:Fs:93:PRO:HD3	7:Fs:133:ARG:HA	2.01	0.42
7:Fu:169:ILE:HG13	7:Fu:172:LEU:HD12	2.00	0.42
8:Gu:207:ARG:HD3	8:Gu:210:PHE:HA	2.01	0.42
10:Ix:170:GLU:HG3	10:Ix:176:ILE:HG13	2.01	0.42
10:Je:170:GLU:HG3	10:Je:176:ILE:HG13	2.01	0.42
10:Jg:250:ARG:HH21	10:Jg:293:ARG:HH21	1.67	0.42
10:Jh:208:PRO:HA	10:Jh:211:ARG:HG2	2.02	0.42
10:Ji:250:ARG:HH21	10:Ji:293:ARG:HH21	1.67	0.42
10:Jj:223:LYS:HB2	10:Jj:300:LEU:HB2	2.01	0.42
10:Jo:208:PRO:HA	10:Jo:211:ARG:HG2	2.01	0.42
10:Jv:170:GLU:HG3	10:Jv:176:ILE:HG13	2.01	0.42
11:Lo:65:LEU:HD21	11:Lo:119:LEU:HB2	2.01	0.42
12:Mu:219:ILE:HG23	12:Mv:192:LEU:HD12	2.01	0.42
12:Ne:219:ILE:HG23	12:Nf:192:LEU:HD12	2.01	0.42
12:Nt:219:ILE:HG23	12:Nu:192:LEU:HD12	2.00	0.42
13:Pl:309:LYS:HB3	13:Pl:382:ILE:HA	2.01	0.42
1:Aa:254:MET:SD	1:Ak:238:GLN:HG3	2.60	0.42
1:Aw:185:LEU:HB3	1:Aw:193:TYR:HB3	2.01	0.42
1:Ax:162:VAL:HG21	1:Ax:169:GLN:HE22	1.84	0.42
2:Bc:82:ILE:HD11	2:Bc:88:ILE:HD11	2.00	0.42
2:Bc:105:LEU:HD13	2:Bc:113:LEU:HD21	2.02	0.42
3:Bl:102:GLU:HG3	3:Bl:364:GLN:HG2	2.01	0.42
3:Bp:29:PHE:HE2	3:Bp:107:GLY:H	1.67	0.42
3:Bs:357:LEU:HB3	3:Bs:365:TRP:HB3	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bx:36:ASP:HB3	4:Bx:39:GLU:HG2	2.02	0.42
4:Bz:36:ASP:HB3	4:Bz:39:GLU:HG2	2.02	0.42
4:Co:64:PRO:HB2	4:Cp:38:VAL:HG13	2.01	0.42
4:Cq:119:LYS:HD2	4:Cs:199:LEU:HB2	2.01	0.42
5:Cy:83:VAL:HG12	5:Cy:105:SER:HA	2.02	0.42
5:Cy:136:ASN:HB3	5:Dw:255:ARG:HH12	1.84	0.42
5:Da:259:ILE:HD11	5:Da:342:MET:HB2	2.02	0.42
5:Dc:83:VAL:HG12	5:Dc:105:SER:HA	2.02	0.42
5:Do:278:THR:HB	5:Do:312:GLN:HB3	2.02	0.42
5:Dp:189:SER:HA	5:Dp:216:ALA:HB2	2.02	0.42
6:Dx:227:PHE:HD1	6:Dx:234:GLU:HA	1.83	0.42
6:Eb:209:LYS:HD2	6:Eb:212:GLN:HB2	2.01	0.42
6:Eb:342:ILE:HG21	6:Eb:367:ILE:HD11	2.02	0.42
6:Eh:239:THR:HG21	6:Ei:155:ARG:HD3	2.01	0.42
6:Eh:304:MET:HE2	6:Eh:356:LEU:HD21	2.01	0.42
6:Em:319:SER:HB2	6:Em:374:HIS:CE1	2.54	0.42
7:Ff:68:ILE:HD11	7:Fg:112:GLN:HE21	1.84	0.42
7:Fg:78:ARG:HB3	7:Fg:143:GLN:HE21	1.84	0.42
7:Fj:31:PRO:HB3	7:Fj:156:VAL:HG21	2.02	0.42
7:Fj:141:ASP:HB2	7:Fj:149:ILE:HG12	2.01	0.42
7:Fr:197:LYS:HA	7:Fr:200:GLN:HB2	2.01	0.42
8:Gf:66:ALA:HB1	8:Gf:75:GLU:HG2	2.02	0.42
8:Gh:176:THR:HG22	8:Gh:185:ILE:HD12	2.01	0.42
8:Go:144:LEU:HA	8:Go:147:ARG:HG2	2.01	0.42
8:Gs:118:TYR:HB2	8:Gs:131:ALA:HB2	2.02	0.42
10:Iy:226:VAL:HG21	10:Iy:254:VAL:HB	2.00	0.42
10:Jc:208:PRO:HA	10:Jc:211:ARG:HG2	2.01	0.42
10:Jf:250:ARG:HH21	10:Jf:293:ARG:HH21	1.67	0.42
10:Jh:170:GLU:HG3	10:Jh:176:ILE:HG13	2.01	0.42
11:Lt:65:LEU:HD21	11:Lt:119:LEU:HB2	2.01	0.42
12:Ml:219:ILE:HG23	12:Mm:192:LEU:HD12	2.02	0.42
12:Mw:219:ILE:HG23	12:Mx:192:LEU:HD12	2.00	0.42
12:Nv:219:ILE:HG23	12:Nw:192:LEU:HD12	2.00	0.42
13:Oq:428:ARG:O	13:Oq:432:ILE:HG12	2.20	0.42
13:Oy:436:GLY:HA2	13:Oz:396:THR:HG21	2.02	0.42
13:Pn:266:LEU:HD23	13:Pn:301:PHE:HZ	1.84	0.42
13:Pn:285:ILE:HD13	13:Po:450:MET:HE3	2.01	0.42
1:Af:36:LYS:HG2	1:Af:224:ASN:HD21	1.84	0.42
1:Aj:52:PRO:HG2	1:As:186:GLU:HG2	2.02	0.42
1:Aq:239:ARG:HA	1:Aq:239:ARG:HD3	1.73	0.42
1:As:47:GLN:HG3	2:Bv:68:GLN:HG2	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:150:ILE:HG12	1:Az:160:VAL:HG12	2.02	0.42
2:Bd:81:THR:HG23	2:Bd:200:LEU:HB3	2.01	0.42
4:Cd:33:THR:HG23	4:Cd:35:VAL:H	1.85	0.42
4:Cs:36:ASP:HB3	4:Cs:39:GLU:HG2	2.01	0.42
4:Cv:36:ASP:HB3	4:Cv:39:GLU:HG2	2.01	0.42
4:Cw:200:ASN:HB3	4:Cw:201:THR:H	1.68	0.42
5:Cx:136:ASN:HB3	5:Dv:255:ARG:HH12	1.84	0.42
5:Cx:210:ALA:HB2	5:Cx:220:VAL:HG13	2.02	0.42
5:Db:342:MET:HE2	5:Dd:138:VAL:HG21	2.01	0.42
5:Dc:239:LEU:HD23	5:Dc:239:LEU:HA	1.94	0.42
5:Di:342:MET:HE2	5:Dk:138:VAL:HG21	2.01	0.42
5:Dr:189:SER:HA	5:Dr:216:ALA:HB2	2.02	0.42
6:Dy:157:LEU:HA	6:Dy:161:SER:HB2	2.01	0.42
6:Eb:70:LEU:HG	9:Hb:136:VAL:HG13	2.02	0.42
6:Ei:358:VAL:HG12	6:Ei:360:GLN:H	1.85	0.42
6:Ep:137:ALA:HB1	6:Ep:142:ILE:HG13	2.02	0.42
6:Es:358:VAL:HG12	6:Es:360:GLN:H	1.84	0.42
6:Ew:269:MET:HE3	6:Ew:269:MET:HB3	1.85	0.42
7:Ez:68:ILE:HD11	7:Fa:112:GLN:HE21	1.84	0.42
7:Fl:197:LYS:HA	7:Fl:200:GLN:HB2	2.01	0.42
7:Fs:140:GLN:HA	7:Fs:148:ARG:HA	2.01	0.42
7:Ft:197:LYS:HA	7:Ft:200:GLN:HB2	2.02	0.42
7:Fv:104:ILE:HG23	7:Fw:145:ARG:HD3	2.02	0.42
8:Gd:176:THR:HG22	8:Gd:185:ILE:HD12	2.02	0.42
8:Gj:71:LEU:HB3	8:Gj:74:TYR:HB2	2.02	0.42
8:Gs:144:LEU:HA	8:Gs:147:ARG:HG2	2.01	0.42
8:Gt:176:THR:HG22	8:Gt:185:ILE:HD12	2.01	0.42
10:Iy:208:PRO:HA	10:Iy:211:ARG:HG2	2.01	0.42
10:Jm:170:GLU:HG3	10:Jm:176:ILE:HG13	2.01	0.42
10:Jv:208:PRO:HA	10:Jv:211:ARG:HG2	2.02	0.42
11:Kw:65:LEU:HD21	11:Kw:119:LEU:HB2	2.01	0.42
12:Ng:219:ILE:HG23	12:Nh:192:LEU:HD12	2.01	0.42
13:Oo:295:VAL:HG12	13:Oo:397:VAL:HG22	2.01	0.42
13:Pd:309:LYS:HG3	13:Pd:382:ILE:HG12	2.02	0.42
13:Pg:319:ARG:HB2	13:Pg:377:GLU:HB2	2.01	0.42
13:Pi:263:GLU:H	13:Pi:263:GLU:HG3	1.68	0.42
13:Pj:274:LEU:HB3	13:Pj:295:VAL:HG21	2.02	0.42
1:Ab:138:GLN:HE21	1:Ab:138:GLN:HB3	1.63	0.42
1:Ao:86:VAL:HG23	1:Ao:96:MET:HG3	2.01	0.42
4:Cr:129:ASN:HB2	4:Cr:156:ASN:HB3	2.02	0.42
5:Cx:252:VAL:HG13	5:Cx:259:ILE:HG12	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Da:278:THR:HB	5:Da:312:GLN:HB3	2.02	0.42
5:De:259:ILE:HD11	5:De:342:MET:HB2	2.02	0.42
5:Dk:239:LEU:HD23	5:Dk:239:LEU:HA	1.93	0.42
5:Dk:342:MET:HE2	5:Dm:138:VAL:HG21	2.00	0.42
5:Dm:278:THR:HB	5:Dm:312:GLN:HB3	2.02	0.42
6:Ec:167:VAL:HG21	6:Ec:191:ALA:HB2	2.01	0.42
6:Ef:164:PHE:HZ	6:Ef:285:ILE:HB	1.84	0.42
7:Fd:104:ILE:HG23	7:Fe:145:ARG:HD3	2.02	0.42
7:Fg:185:LEU:HD22	7:Fg:199:SER:HB3	2.00	0.42
7:Fv:112:GLN:HE21	7:Fv:112:GLN:HB3	1.62	0.42
8:Gb:176:THR:HG22	8:Gb:185:ILE:HD12	2.02	0.42
8:Gi:118:TYR:HB2	8:Gi:131:ALA:HB2	2.01	0.42
8:Gr:176:THR:HG22	8:Gr:185:ILE:HD12	2.02	0.42
8:Gu:144:LEU:HA	8:Gu:147:ARG:HG2	2.01	0.42
10:Iy:170:GLU:HG3	10:Iy:176:ILE:HG13	2.01	0.42
10:Iz:170:GLU:HG3	10:Iz:176:ILE:HG13	2.01	0.42
10:Iz:223:LYS:HB2	10:Iz:300:LEU:HB2	2.01	0.42
10:Jd:250:ARG:HH21	10:Jd:293:ARG:HH21	1.67	0.42
10:Jg:227:THR:HA	10:Jg:272:ARG:O	2.18	0.42
10:Jh:223:LYS:HB2	10:Jh:300:LEU:HB2	2.01	0.42
10:Jk:250:ARG:HH21	10:Jk:293:ARG:HH21	1.66	0.42
10:Jn:208:PRO:HA	10:Jn:211:ARG:HG2	2.01	0.42
10:Jq:170:GLU:HG3	10:Jq:176:ILE:HG13	2.01	0.42
10:Js:208:PRO:HA	10:Js:211:ARG:HG2	2.01	0.42
12:Mo:219:ILE:HG23	12:Mp:192:LEU:HD12	2.01	0.42
13:Pk:399:VAL:HB	13:Pk:447:VAL:HG22	2.01	0.42
1:Ab:216:ARG:HH12	1:Ab:219:MET:HG3	1.85	0.42
1:Ae:238:GLN:HA	3:Bq:426:LEU:HD11	2.02	0.42
1:Ah:245:SER:HA	1:Ah:248:ILE:HG22	2.02	0.42
1:Aj:177:VAL:HG22	1:Aj:204:GLU:HG2	2.02	0.42
1:Ak:26:LEU:HD13	1:Ak:26:LEU:HA	1.92	0.42
1:Aq:26:LEU:HD13	1:Aq:26:LEU:HA	1.85	0.42
1:Ar:86:VAL:HB	1:Ar:96:MET:HE1	2.00	0.42
1:Bb:248:ILE:HA	1:Bb:251:VAL:HG22	2.02	0.42
3:Bi:426:LEU:HD21	3:Bj:410:GLN:HG3	2.02	0.42
3:Bk:330:SER:HB3	3:Bk:342:THR:HG23	2.01	0.42
3:Bl:52:THR:HA	3:Bm:63:VAL:HG12	2.02	0.42
3:Bp:422:VAL:O	3:Bp:426:LEU:HG	2.20	0.42
2:Bw:36:ALA:HB3	2:Bw:65:ASN:HB3	2.00	0.42
4:Cr:255:ASN:ND2	4:Cs:244:MET:HE1	2.35	0.42
5:Cx:259:ILE:HD11	5:Cx:342:MET:HB2	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cx:278:THR:HB	5:Cx:312:GLN:HB3	2.02	0.42
5:Db:259:ILE:HD11	5:Db:342:MET:HB2	2.02	0.42
5:Dd:189:SER:HA	5:Dd:216:ALA:HB2	2.01	0.42
5:Dq:252:VAL:HG13	5:Dq:259:ILE:HG12	2.02	0.42
5:Dq:278:THR:HB	5:Dq:312:GLN:HB3	2.02	0.42
5:Ds:278:THR:HB	5:Ds:312:GLN:HB3	2.02	0.42
5:Du:252:VAL:HG13	5:Du:259:ILE:HG12	2.02	0.42
5:Dv:103:VAL:HB	5:Dv:137:LEU:HD21	2.01	0.42
6:Ea:342:ILE:HG21	6:Ea:367:ILE:HD11	2.02	0.42
6:Er:304:MET:HE2	6:Er:356:LEU:HD21	2.00	0.42
6:Eu:28:VAL:HG13	6:Eu:49:ALA:HB1	2.00	0.42
7:Fa:183:THR:HG21	7:Fa:206:ILE:HD11	2.02	0.42
7:Fc:107:LEU:HD13	7:Fc:107:LEU:HA	1.96	0.42
7:Fg:183:THR:HG21	7:Fg:206:ILE:HD11	2.01	0.42
7:Fq:183:THR:HG21	7:Fq:206:ILE:HD11	2.02	0.42
7:Fs:185:LEU:HD22	7:Fs:199:SER:HB3	2.00	0.42
8:Fx:41:LEU:HA	8:Fx:44:GLU:HG2	2.01	0.42
8:Ge:144:LEU:HA	8:Ge:147:ARG:HG2	2.02	0.42
8:Gh:66:ALA:HB1	8:Gh:75:GLU:HG2	2.02	0.42
10:Ja:250:ARG:HH21	10:Ja:293:ARG:HH21	1.68	0.42
10:Jb:170:GLU:HG3	10:Jb:176:ILE:HG13	2.01	0.42
10:Ji:170:GLU:HG3	10:Ji:176:ILE:HG13	2.01	0.42
10:Jk:226:VAL:HG21	10:Jk:254:VAL:HB	2.00	0.42
10:Jo:170:GLU:HG3	10:Jo:176:ILE:HG13	2.01	0.42
10:Ju:208:PRO:HA	10:Ju:211:ARG:HG2	2.01	0.42
11:Kj:71:GLY:HA2	11:Kk:99:ARG:HG2	2.01	0.42
11:Le:72:MET:H	11:Lf:97:VAL:HG23	1.84	0.42
13:Ol:394:ARG:HH21	13:Ol:444:LEU:HD13	1.85	0.42
13:Or:320:SER:HB3	13:Or:375:ASN:HB3	2.01	0.42
13:Os:293:ALA:HA	13:Os:398:ALA:O	2.19	0.42
13:Ot:319:ARG:HB2	13:Ot:377:GLU:HB2	2.01	0.42
13:Pq:295:VAL:HG12	13:Pq:397:VAL:HG13	2.00	0.42
1:Ad:81:HIS:HD2	1:Ad:182:PRO:HB2	1.85	0.42
1:Ai:10:THR:HG21	1:At:86:VAL:HG23	2.01	0.42
1:At:206:VAL:HG13	1:At:209:LEU:HB2	2.02	0.42
1:Az:46:TYR:HB2	2:Ba:178:VAL:HA	2.01	0.42
3:Be:322:LYS:HB2	3:Be:334:THR:HB	2.02	0.42
3:Bp:322:LYS:HB2	3:Bp:334:THR:HB	2.01	0.42
4:Cc:154:LEU:HD21	4:Ce:258:LEU:HD11	2.02	0.42
4:Cv:200:ASN:HB3	4:Cv:201:THR:H	1.68	0.42
5:Dc:259:ILE:HD11	5:Dc:342:MET:HB2	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:De:83:VAL:HG12	5:De:105:SER:HA	2.02	0.42
5:Df:259:ILE:HD11	5:Df:342:MET:HB2	2.02	0.42
5:Dh:259:ILE:HD11	5:Dh:342:MET:HB2	2.02	0.42
5:Dm:342:MET:HE2	5:Do:138:VAL:HG21	2.01	0.42
5:Dv:252:VAL:HG13	5:Dv:259:ILE:HG12	2.02	0.42
5:Dv:259:ILE:HD11	5:Dv:342:MET:HB2	2.02	0.42
6:Eb:350:TYR:HE2	6:Eb:355:GLU:HG3	1.85	0.42
6:Ed:342:ILE:HG21	6:Ed:367:ILE:HD11	2.02	0.42
6:Ei:249:PRO:HG2	6:Ei:252:SER:HB3	2.02	0.42
6:Ej:88:ILE:HG23	6:Ej:106:ILE:HG12	2.02	0.42
6:Ek:80:PHE:HD1	9:Hk:136:VAL:HG21	1.85	0.42
6:Em:269:MET:HE3	6:Em:269:MET:HB3	1.93	0.42
6:Eo:92:GLU:HB2	6:Eo:103:ARG:HB3	2.01	0.42
6:Es:35:VAL:HG21	6:Es:243:VAL:HG22	2.02	0.42
6:Et:321:TRP:HE1	6:Et:374:HIS:CE1	2.37	0.42
7:Ex:112:GLN:HE21	7:Ex:112:GLN:HB3	1.62	0.42
7:Ey:64:ALA:HB2	7:Ey:172:LEU:HD22	2.01	0.42
7:Fa:116:TYR:HE2	8:Ga:198:GLU:HB3	1.84	0.42
7:Fb:78:ARG:HB3	7:Fb:143:GLN:HE22	1.85	0.42
7:Fi:64:ALA:HB2	7:Fi:172:LEU:HD22	2.01	0.42
7:Fj:68:ILE:HD11	7:Fk:112:GLN:HE21	1.84	0.42
8:Gq:207:ARG:HD3	8:Gq:210:PHE:HA	2.02	0.42
10:Jq:208:PRO:HA	10:Jq:211:ARG:HG2	2.01	0.42
11:Le:71:GLY:HA2	11:Lf:99:ARG:HG2	2.02	0.42
11:Lt:71:GLY:HA2	11:Lu:99:ARG:HG2	2.01	0.42
13:Ox:290:ASN:HA	13:Ox:452:PHE:HE2	1.84	0.42
1:Ac:196:THR:HG22	1:Aq:161:ARG:HH12	1.85	0.41
1:Ai:49:ILE:HG21	1:Ai:66:LEU:HD23	2.03	0.41
1:Am:154:ASN:HB2	1:Am:214:ASP:HB2	2.01	0.41
1:An:120:PHE:HB3	1:An:128:ILE:HD11	2.01	0.41
1:Ao:188:VAL:HG11	1:Ao:194:LEU:HD12	2.02	0.41
1:Aq:80:VAL:HG22	1:Ar:91:ASN:HD21	1.85	0.41
1:Aw:73:LYS:HG3	1:Az:219:MET:HE1	2.01	0.41
1:Az:226:ASN:HB3	1:Az:229:GLU:HB3	2.02	0.41
1:Bb:87:GLN:HE21	1:Bb:222:THR:HB	1.85	0.41
2:Bc:135:LEU:HG	2:Bc:148:VAL:HB	2.02	0.41
2:Bd:67:ALA:HB3	2:Bd:208:ASN:HD22	1.84	0.41
3:Bi:327:GLU:HB2	3:Bi:386:SER:HB2	2.02	0.41
3:Bq:411:ARG:HH22	3:Bs:431:LEU:HG	1.85	0.41
3:Br:351:VAL:HG11	3:Br:357:LEU:HD21	2.02	0.41
4:By:36:ASP:HB3	4:By:39:GLU:HG2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Dd:259:ILE:HD11	5:Dd:342:MET:HB2	2.02	0.41
5:Dg:278:THR:HB	5:Dg:312:GLN:HB3	2.02	0.41
5:Di:278:THR:HB	5:Di:312:GLN:HB3	2.02	0.41
5:Dn:139:VAL:HG22	5:Dn:160:GLY:HA3	2.02	0.41
5:Dn:342:MET:HE2	5:Dp:138:VAL:HG21	2.01	0.41
5:Du:278:THR:HB	5:Du:312:GLN:HB3	2.02	0.41
5:Dw:278:THR:HB	5:Dw:312:GLN:HB3	2.02	0.41
6:Dz:350:TYR:HB2	6:Dz:353:GLU:HG2	2.02	0.41
6:Ee:228:ASP:HB2	6:Ee:235:VAL:HG11	2.01	0.41
6:Eh:80:PHE:HD1	9:Hh:136:VAL:HG21	1.85	0.41
6:Ep:319:SER:HB2	6:Ep:374:HIS:CE1	2.55	0.41
7:Fc:116:TYR:HE2	8:Gc:198:GLU:HB3	1.84	0.41
7:Fg:184:ILE:HG12	7:Fg:286:VAL:HG22	2.00	0.41
7:Fk:93:PRO:HD3	7:Fk:133:ARG:HA	2.00	0.41
7:Ft:264:TYR:HD1	7:Ft:264:TYR:HA	1.76	0.41
7:Fu:116:TYR:HE2	8:Gu:198:GLU:HB3	1.85	0.41
7:Fw:64:ALA:HB2	7:Fw:172:LEU:HD22	2.00	0.41
8:Gb:41:LEU:HA	8:Gb:44:GLU:HG2	2.02	0.41
8:Gf:176:THR:HG22	8:Gf:185:ILE:HD12	2.02	0.41
8:Gg:144:LEU:HA	8:Gg:147:ARG:HG2	2.02	0.41
8:Gp:41:LEU:HA	8:Gp:44:GLU:HG2	2.01	0.41
10:Jd:170:GLU:HG3	10:Jd:176:ILE:HG13	2.01	0.41
10:Ji:226:VAL:HG21	10:Ji:254:VAL:HB	2.00	0.41
10:Jk:170:GLU:HG3	10:Jk:176:ILE:HG13	2.01	0.41
10:Jn:170:GLU:HG3	10:Jn:176:ILE:HG13	2.01	0.41
10:Jo:250:ARG:HH21	10:Jo:293:ARG:HH21	1.67	0.41
10:Jp:208:PRO:HA	10:Jp:211:ARG:HG2	2.01	0.41
10:Jt:170:GLU:HG3	10:Jt:176:ILE:HG13	2.01	0.41
10:Jv:226:VAL:HG21	10:Jv:254:VAL:HB	2.03	0.41
10:Jw:226:VAL:HG21	10:Jw:254:VAL:HB	2.00	0.41
11:Jx:65:LEU:HD21	11:Jx:119:LEU:HB2	2.01	0.41
13:Oq:308:ARG:HB2	13:Oq:383:SER:HB3	2.01	0.41
13:Os:285:ILE:HG21	13:Os:427:ILE:HD11	2.02	0.41
13:Pb:288:LEU:HA	13:Pb:291:TYR:HE1	1.85	0.41
13:Pd:274:LEU:HD22	13:Pd:295:VAL:HG11	2.02	0.41
1:Ah:262:LEU:HD21	1:Ai:248:ILE:HG23	2.02	0.41
1:As:38:ARG:HG3	1:As:78:GLN:HB3	2.03	0.41
3:Bh:426:LEU:HD22	3:Br:413:PHE:HB3	2.02	0.41
4:Bx:64:PRO:HB2	4:By:38:VAL:HG13	2.02	0.41
4:Cv:134:ASP:HB2	4:Cw:155:LYS:HB2	2.03	0.41
5:Cx:138:VAL:HG21	5:Dv:342:MET:HE2	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cx:239:LEU:HD23	5:Cx:239:LEU:HA	1.95	0.41
5:Cz:83:VAL:HG12	5:Cz:105:SER:HA	2.02	0.41
5:Cz:103:VAL:HB	5:Cz:137:LEU:HD21	2.01	0.41
5:Cz:252:VAL:HG13	5:Cz:259:ILE:HG12	2.02	0.41
5:Da:239:LEU:HD23	5:Da:239:LEU:HA	1.92	0.41
5:Db:83:VAL:HG12	5:Db:105:SER:HA	2.02	0.41
5:Dg:259:ILE:HD11	5:Dg:342:MET:HB2	2.02	0.41
5:Dh:210:ALA:HB2	5:Dh:220:VAL:HG13	2.02	0.41
5:Di:83:VAL:HG12	5:Di:105:SER:HA	2.02	0.41
5:Dn:252:VAL:HG13	5:Dn:259:ILE:HG12	2.02	0.41
5:Dp:252:VAL:HG22	5:Dp:259:ILE:HG23	2.02	0.41
5:Dr:259:ILE:HD11	5:Dr:342:MET:HB2	2.01	0.41
5:Ds:252:VAL:HG13	5:Ds:259:ILE:HG12	2.03	0.41
6:Dz:255:ASP:HB3	6:Dz:258:SER:HB3	2.01	0.41
6:Ea:88:ILE:HG23	6:Ea:106:ILE:HG12	2.02	0.41
6:Eb:269:MET:HE3	6:Eb:269:MET:HB3	1.96	0.41
6:Ej:35:VAL:HG21	6:Ej:243:VAL:HG22	2.02	0.41
6:Ep:342:ILE:HG21	6:Ep:367:ILE:HD11	2.02	0.41
7:Fb:68:ILE:HD11	7:Fc:112:GLN:HE21	1.84	0.41
7:Ff:104:ILE:HG23	7:Fg:145:ARG:HD3	2.01	0.41
7:Fj:104:ILE:HG23	7:Fk:145:ARG:HD3	2.01	0.41
7:Fo:184:ILE:HG12	7:Fo:286:VAL:HG22	2.02	0.41
8:Gj:41:LEU:HA	8:Gj:44:GLU:HG2	2.02	0.41
8:Gn:66:ALA:HB1	8:Gn:75:GLU:HG2	2.02	0.41
8:Gq:189:ARG:HH21	8:Gq:205:LYS:HZ1	1.68	0.41
8:Gv:176:THR:HG22	8:Gv:185:ILE:HD12	2.01	0.41
11:Kv:65:LEU:HD21	11:Kv:119:LEU:HB2	2.01	0.41
13:Om:304:VAL:HB	13:Om:387:LYS:HB2	2.02	0.41
13:Oq:298:GLU:HB2	13:Oq:394:ARG:HB3	2.02	0.41
13:Os:326:ASP:HB3	13:Os:369:HIS:HB3	2.02	0.41
13:Ou:274:LEU:HD22	13:Ou:295:VAL:HG11	2.02	0.41
13:Oz:310:VAL:HB	13:Oz:381:THR:HB	2.02	0.41
13:Pl:397:VAL:HB	13:Pl:445:LEU:HD12	2.02	0.41
1:Aa:66:LEU:HD12	1:Aa:66:LEU:HA	1.93	0.41
1:Ad:162:VAL:HB	1:Ad:165:GLN:HB2	2.02	0.41
1:Af:182:PRO:HD2	3:Bo:47:PHE:HE1	1.84	0.41
1:Ai:185:LEU:HB3	1:Ai:193:TYR:HB3	2.01	0.41
3:Bj:431:LEU:HD12	3:Br:418:ARG:HD2	2.01	0.41
3:Bs:4:VAL:HG13	3:Bs:57:GLY:HA2	2.02	0.41
2:Bw:215:MET:HE2	2:Bw:215:MET:HB2	1.96	0.41
4:Bx:154:LEU:HD13	4:Cw:136:LEU:HD13	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ce:134:ASP:HB2	4:Cf:155:LYS:HB2	2.02	0.41
4:Cp:200:ASN:HB3	4:Cp:201:THR:H	1.68	0.41
4:Cr:200:ASN:HB3	4:Cr:201:THR:H	1.68	0.41
4:Ct:200:ASN:HB3	4:Ct:201:THR:H	1.68	0.41
4:Cu:200:ASN:HB3	4:Cu:201:THR:H	1.68	0.41
5:Cz:252:VAL:HG22	5:Cz:259:ILE:HG23	2.02	0.41
5:Db:252:VAL:HG22	5:Db:259:ILE:HG23	2.03	0.41
5:Dc:342:MET:HE2	5:De:138:VAL:HG21	2.01	0.41
5:Df:189:SER:HA	5:Df:216:ALA:HB2	2.02	0.41
5:Dk:278:THR:HB	5:Dk:312:GLN:HB3	2.03	0.41
5:Dp:252:VAL:HG13	5:Dp:259:ILE:HG12	2.02	0.41
5:Dq:255:ARG:HH12	5:Ds:136:ASN:HB3	1.84	0.41
6:Dy:78:TYR:HD2	6:Dy:88:ILE:HB	1.85	0.41
6:Dz:319:SER:HB2	6:Dz:374:HIS:CE1	2.55	0.41
6:Dz:350:TYR:HE2	6:Dz:355:GLU:HG3	1.85	0.41
6:Eb:182:ILE:HG23	6:Eb:194:ILE:HD12	2.01	0.41
6:Ee:304:MET:HE2	6:Ee:356:LEU:HD21	2.00	0.41
6:Eh:205:THR:HG22	6:Ei:260:ARG:HD3	2.02	0.41
6:Em:304:MET:HE2	6:Em:356:LEU:HD21	2.01	0.41
6:Eo:35:VAL:HG21	6:Eo:243:VAL:HG22	2.02	0.41
6:Ep:295:VAL:HA	6:Ep:369:ILE:HG23	2.02	0.41
6:Ev:28:VAL:HG13	6:Ev:49:ALA:HB1	2.03	0.41
7:Ez:104:ILE:HG23	7:Fa:145:ARG:HD3	2.02	0.41
7:Fp:197:LYS:HA	7:Fp:200:GLN:HB2	2.02	0.41
7:Fv:78:ARG:HB3	7:Fv:143:GLN:HE22	1.84	0.41
8:Ga:144:LEU:HA	8:Ga:147:ARG:HG2	2.02	0.41
8:Gb:31:PRO:HA	10:Jg:196:PRO:HB3	2.02	0.41
8:Gg:207:ARG:HD3	8:Gg:210:PHE:HA	2.02	0.41
8:Gi:207:ARG:HD3	8:Gi:210:PHE:HA	2.02	0.41
8:Gj:66:ALA:HB1	8:Gj:75:GLU:HG2	2.03	0.41
8:Gv:66:ALA:HB1	8:Gv:75:GLU:HG2	2.01	0.41
10:Ix:208:PRO:HA	10:Ix:211:ARG:HG2	2.02	0.41
10:Iz:226:VAL:HG21	10:Iz:254:VAL:HB	2.03	0.41
10:Jb:267:LEU:HA	10:Jc:277:THR:HG22	2.02	0.41
10:Ji:208:PRO:HA	10:Ji:211:ARG:HG2	2.01	0.41
11:Ks:73:ARG:HG2	11:Kt:97:VAL:HB	2.01	0.41
12:Nr:219:ILE:HG23	12:Ns:192:LEU:HD12	2.00	0.41
13:Ok:295:VAL:HG12	13:Ok:397:VAL:HG22	2.01	0.41
13:Op:426:SER:HB3	13:Oq:450:MET:HE1	2.02	0.41
13:Ox:320:SER:HB2	13:Ox:375:ASN:HB3	2.00	0.41
1:Aj:40:VAL:HG13	1:As:119:GLN:HG2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Al:85:ASN:HB2	3:Bq:3:TYR:HD2	1.85	0.41
1:Ax:239:ARG:HD3	1:Ax:239:ARG:HA	1.82	0.41
3:Be:399:MET:HE3	3:Be:399:MET:HB3	1.92	0.41
3:Bg:91:VAL:HB	3:Bg:123:GLU:HB3	2.02	0.41
3:Bm:140:TYR:HB2	4:Cc:155:LYS:HE3	2.03	0.41
3:Bu:348:LEU:HD12	3:Bu:384:PHE:HB3	2.02	0.41
4:Bx:200:ASN:HB3	4:Bx:201:THR:H	1.68	0.41
4:Bx:205:TYR:CZ	4:Bx:236:SER:HB3	2.56	0.41
4:Cg:240:THR:HG22	4:Cg:244:MET:HE2	2.01	0.41
4:Cn:200:ASN:HB3	4:Cn:201:THR:H	1.68	0.41
4:Co:36:ASP:HB3	4:Co:39:GLU:HG2	2.01	0.41
4:Co:200:ASN:HB3	4:Co:201:THR:H	1.68	0.41
4:Cq:200:ASN:HB3	4:Cq:201:THR:H	1.68	0.41
5:Db:252:VAL:HG13	5:Db:259:ILE:HG12	2.02	0.41
5:Dc:252:VAL:HG13	5:Dc:259:ILE:HG12	2.02	0.41
5:Dd:252:VAL:HG22	5:Dd:259:ILE:HG23	2.03	0.41
5:Di:259:ILE:HD11	5:Di:342:MET:HB2	2.02	0.41
5:Dn:252:VAL:HG22	5:Dn:259:ILE:HG23	2.03	0.41
5:Ds:259:ILE:HD11	5:Ds:342:MET:HB2	2.01	0.41
5:Dt:259:ILE:HD11	5:Dt:342:MET:HB2	2.02	0.41
5:Du:252:VAL:HG22	5:Du:259:ILE:HG23	2.03	0.41
5:Du:259:ILE:HD11	5:Du:342:MET:HB2	2.02	0.41
5:Dw:259:ILE:HD11	5:Dw:342:MET:HB2	2.02	0.41
6:Dy:241:ARG:HB3	9:Hz:143:THR:HG21	2.02	0.41
6:Eg:262:TRP:HA	6:Eg:267:GLY:HA3	2.01	0.41
6:Es:373:MET:HE3	6:Es:373:MET:HB2	1.91	0.41
6:Eu:249:PRO:HG2	6:Eu:252:SER:HB3	2.02	0.41
7:Fe:249:PHE:HB3	7:Fe:254:LEU:HD23	2.02	0.41
7:Fk:91:MET:HE3	7:Fk:91:MET:HB3	1.96	0.41
7:Fk:249:PHE:HB3	7:Fk:254:LEU:HD23	2.02	0.41
7:Ft:104:ILE:HG23	7:Fu:145:ARG:HD3	2.03	0.41
8:Gh:41:LEU:HA	8:Gh:44:GLU:HG2	2.02	0.41
8:Gm:207:ARG:HD3	8:Gm:210:PHE:HA	2.03	0.41
8:Gn:31:PRO:HA	10:Js:196:PRO:HB3	2.02	0.41
8:Gn:139:ALA:HB1	8:Gn:147:ARG:HG2	2.03	0.41
8:Go:207:ARG:HD3	8:Go:210:PHE:HA	2.03	0.41
8:Gp:66:ALA:HB1	8:Gp:75:GLU:HG2	2.02	0.41
8:Gq:144:LEU:HA	8:Gq:147:ARG:HG2	2.02	0.41
8:Gw:144:LEU:HA	8:Gw:147:ARG:HG2	2.02	0.41
9:Hp:139:LYS:HE3	9:Hp:139:LYS:HB3	1.92	0.41
10:Ix:226:VAL:HG21	10:Ix:254:VAL:HB	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Jb:226:VAL:HG21	10:Jb:254:VAL:HB	2.03	0.41
10:Jf:223:LYS:HB2	10:Jf:300:LEU:HB2	2.01	0.41
10:Jr:170:GLU:HG3	10:Jr:176:ILE:HG13	2.01	0.41
10:Jt:226:VAL:HG21	10:Jt:254:VAL:HB	2.03	0.41
11:Km:65:LEU:HD21	11:Km:119:LEU:HB2	2.01	0.41
11:Lb:71:GLY:HA2	11:Lc:99:ARG:HG2	2.02	0.41
13:Pl:326:ASP:HB3	13:Pl:369:HIS:HB3	2.01	0.41
1:Ab:10:THR:HG21	1:Ak:86:VAL:HG23	2.03	0.41
1:Ac:29:ALA:HA	1:Ac:225:VAL:HG21	2.02	0.41
1:As:261:GLN:HG3	1:As:262:LEU:HG	2.02	0.41
1:Bb:239:ARG:HD3	1:Bb:239:ARG:HA	1.79	0.41
4:Bz:124:ASP:HB2	4:Ca:165:ALA:HB3	2.01	0.41
4:Cc:36:ASP:HB3	4:Cc:39:GLU:HG2	2.01	0.41
4:Cp:34:THR:HG21	6:Ef:247:PRO:HB2	2.02	0.41
4:Cs:255:ASN:ND2	4:Ct:244:MET:HE1	2.36	0.41
4:Cu:36:ASP:HB3	4:Cu:39:GLU:HG2	2.02	0.41
5:Db:210:ALA:HB2	5:Db:220:VAL:HG13	2.03	0.41
5:Db:278:THR:HB	5:Db:312:GLN:HB3	2.02	0.41
5:Dd:210:ALA:HB2	5:Dd:220:VAL:HG13	2.03	0.41
5:De:239:LEU:HD23	5:De:239:LEU:HA	1.94	0.41
5:Dl:252:VAL:HG22	5:Dl:259:ILE:HG23	2.02	0.41
5:Dn:189:SER:HA	5:Dn:216:ALA:HB2	2.03	0.41
5:Do:252:VAL:HG13	5:Do:259:ILE:HG12	2.02	0.41
5:Ds:342:MET:HE2	5:Du:138:VAL:HG21	2.01	0.41
5:Dt:189:SER:HA	5:Dt:216:ALA:HB2	2.02	0.41
5:Dt:252:VAL:HG13	5:Dt:259:ILE:HG12	2.02	0.41
5:Dw:252:VAL:HG13	5:Dw:259:ILE:HG12	2.02	0.41
5:Dw:252:VAL:HG22	5:Dw:259:ILE:HG23	2.03	0.41
6:Ee:28:VAL:HG13	6:Ee:49:ALA:HB1	2.03	0.41
6:Eg:319:SER:HB2	6:Eg:374:HIS:CE1	2.56	0.41
6:Eh:34:ILE:HD11	6:Eh:100:MET:HB2	2.01	0.41
6:Eh:249:PRO:HG2	6:Eh:252:SER:HB3	2.03	0.41
6:Eo:304:MET:HE2	6:Eo:356:LEU:HD21	2.03	0.41
6:Eq:28:VAL:HG13	6:Eq:49:ALA:HB1	2.02	0.41
7:Fi:249:PHE:HB3	7:Fi:254:LEU:HD23	2.02	0.41
7:Fp:104:ILE:HG23	7:Fq:145:ARG:HD3	2.02	0.41
7:Fp:112:GLN:HE21	7:Fp:112:GLN:HB3	1.63	0.41
7:Fr:31:PRO:HB3	7:Fr:156:VAL:HG21	2.02	0.41
8:Gf:41:LEU:HA	8:Gf:44:GLU:HG2	2.01	0.41
8:Gr:41:LEU:HA	8:Gr:44:GLU:HG2	2.02	0.41
10:Jf:170:GLU:HG3	10:Jf:176:ILE:HG13	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Jk:208:PRO:HA	10:Jk:211:ARG:HG2	2.01	0.41
11:Kh:65:LEU:HD21	11:Kh:119:LEU:HB2	2.01	0.41
11:Lx:65:LEU:HD21	11:Lx:119:LEU:HB2	2.01	0.41
13:Ot:264:GLN:HE21	13:Ot:264:GLN:HB3	1.62	0.41
13:Pa:428:ARG:O	13:Pa:432:ILE:HG12	2.20	0.41
13:Pl:256:VAL:HG23	13:Pl:258:ALA:H	1.84	0.41
13:Po:399:VAL:HG21	13:Po:431:LEU:HD13	2.03	0.41
1:Ae:111:ASN:HD21	1:Aw:163:ARG:HB2	1.86	0.41
1:Al:49:ILE:HD12	1:Al:68:LEU:HD23	2.02	0.41
1:Aq:67:MET:HE2	1:Ar:187:PRO:HD2	2.03	0.41
1:Av:239:ARG:HA	1:Av:239:ARG:HD3	1.90	0.41
3:Bp:147:ILE:HG23	3:Bp:343:LEU:HD13	2.02	0.41
4:Cb:136:LEU:HD13	4:Cc:154:LEU:HD13	2.03	0.41
4:Cg:255:ASN:ND2	4:Ch:244:MET:HE1	2.35	0.41
4:Ch:36:ASP:HB3	4:Ch:39:GLU:HG2	2.01	0.41
4:Ch:255:ASN:ND2	4:Ci:244:MET:HE1	2.36	0.41
4:Cm:36:ASP:HB3	4:Cm:39:GLU:HG2	2.02	0.41
4:Cu:119:LYS:HD2	4:Cw:199:LEU:HB2	2.01	0.41
5:Dc:278:THR:HB	5:Dc:312:GLN:HB3	2.02	0.41
5:Df:210:ALA:HB2	5:Df:220:VAL:HG13	2.03	0.41
5:Df:252:VAL:HG22	5:Df:259:ILE:HG23	2.03	0.41
5:Dh:252:VAL:HG22	5:Dh:259:ILE:HG23	2.03	0.41
5:Dp:278:THR:HB	5:Dp:312:GLN:HB3	2.03	0.41
5:Ds:252:VAL:HG22	5:Ds:259:ILE:HG23	2.03	0.41
5:Dv:189:SER:HA	5:Dv:216:ALA:HB2	2.02	0.41
5:Dv:239:LEU:HD23	5:Dv:239:LEU:HA	1.94	0.41
6:Eb:255:ASP:HB3	6:Eb:258:SER:HB3	2.02	0.41
6:Eg:167:VAL:HG21	6:Eg:191:ALA:HB2	2.02	0.41
6:Ep:269:MET:HE3	6:Ep:269:MET:HB3	1.92	0.41
6:Ep:304:MET:HE2	6:Ep:356:LEU:HD21	2.03	0.41
6:Ep:321:TRP:HE1	6:Ep:374:HIS:CE1	2.38	0.41
6:Eq:157:LEU:HA	6:Eq:161:SER:HB2	2.03	0.41
6:Er:111:SER:HB3	6:Er:113:THR:HG22	2.03	0.41
6:Er:289:ILE:HG12	9:Hr:142:MET:HE2	2.02	0.41
6:Eu:228:ASP:HB2	6:Eu:235:VAL:HG11	2.02	0.41
7:Ff:197:LYS:HA	7:Ff:200:GLN:HB2	2.03	0.41
7:Fl:93:PRO:HB2	7:Fl:95:TRP:HE3	1.84	0.41
7:Fr:91:MET:HE2	7:Fr:91:MET:HB3	1.84	0.41
7:Fs:221:VAL:HB	7:Fs:261:VAL:HG12	2.02	0.41
7:Fv:264:TYR:HD1	7:Fv:264:TYR:HA	1.76	0.41
8:Gr:100:GLU:HG3	8:Gs:211:TRP:HB3	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Iz:267:LEU:HA	10:Ja:277:THR:HG22	2.02	0.41
10:Jb:250:ARG:HH21	10:Jb:293:ARG:HH21	1.68	0.41
10:Jd:226:VAL:HG21	10:Jd:254:VAL:HB	2.03	0.41
10:Js:170:GLU:HG3	10:Js:176:ILE:HG13	2.01	0.41
10:Jt:250:ARG:HH21	10:Jt:293:ARG:HH21	1.68	0.41
11:Kt:71:GLY:HA2	11:Ku:99:ARG:HG2	2.03	0.41
12:No:155:LEU:HD23	12:No:162:ILE:HD11	2.02	0.41
13:Oo:266:LEU:HD23	13:Oo:301:PHE:HZ	1.85	0.41
13:Or:296:ASP:HB3	13:Or:396:THR:OG1	2.20	0.41
13:Os:298:GLU:HB2	13:Os:394:ARG:HB3	2.02	0.41
13:Pa:430:VAL:HG23	13:Pb:448:LEU:HD12	2.01	0.41
13:Ph:320:SER:HB3	13:Ph:375:ASN:HB3	2.03	0.41
1:Ac:26:LEU:HD13	1:Ac:26:LEU:HA	1.83	0.41
1:Ad:255:MET:HE1	1:Aj:227:VAL:HG21	2.01	0.41
1:Ag:60:THR:HG21	1:Ak:135:TYR:HD1	1.86	0.41
1:Aj:206:VAL:HG13	1:Aj:209:LEU:HB2	2.02	0.41
1:At:257:PHE:HE1	1:At:261:GLN:HE21	1.68	0.41
3:Br:130:VAL:HG12	3:Br:137:VAL:HA	2.02	0.41
4:Bz:134:ASP:HB2	4:Ca:155:LYS:HB2	2.03	0.41
4:Cf:200:ASN:HB3	4:Cf:201:THR:H	1.68	0.41
4:Ck:36:ASP:HB3	4:Ck:39:GLU:HG2	2.02	0.41
4:Ck:255:ASN:ND2	4:Cl:244:MET:HE1	2.36	0.41
4:Cl:205:TYR:CZ	4:Cl:236:SER:HB3	2.56	0.41
4:Cm:134:ASP:HB2	4:Cn:155:LYS:HB2	2.02	0.41
4:Cn:33:THR:HG23	4:Cn:35:VAL:H	1.86	0.41
4:Co:205:TYR:CZ	4:Co:236:SER:HB3	2.56	0.41
4:Cp:255:ASN:ND2	4:Cq:244:MET:HE1	2.36	0.41
4:Cq:124:ASP:HB2	4:Cr:165:ALA:HB3	2.03	0.41
4:Cu:134:ASP:HB2	4:Cv:155:LYS:HB2	2.03	0.41
5:Dg:205:LEU:HD13	5:Dg:209:MET:HE2	2.03	0.41
5:Dj:278:THR:HB	5:Dj:312:GLN:HB3	2.03	0.41
5:Dl:259:ILE:HD11	5:Dl:342:MET:HB2	2.02	0.41
5:Do:103:VAL:HB	5:Do:137:LEU:HD21	2.01	0.41
6:Dx:262:TRP:HA	6:Dx:267:GLY:HA3	2.02	0.41
6:Eb:109:TYR:CE1	11:Jx:73:ARG:HG3	2.54	0.41
6:Ec:269:MET:HE3	6:Ec:269:MET:HB3	1.96	0.41
6:El:319:SER:HB2	6:El:374:HIS:CE1	2.55	0.41
6:Em:226:VAL:HB	6:Em:236:MET:HB3	2.03	0.41
6:Em:249:PRO:HG2	6:Em:252:SER:HB3	2.02	0.41
6:Em:262:TRP:HA	6:Em:267:GLY:HA3	2.01	0.41
7:Fb:264:TYR:HD1	7:Fb:264:TYR:HA	1.76	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Fd:78:ARG:HB3	7:Fd:143:GLN:HE22	1.84	0.41
7:Fn:197:LYS:HA	7:Fn:200:GLN:HB2	2.02	0.41
7:Ft:266:LYS:HE3	7:Ft:266:LYS:HB3	1.96	0.41
8:Ge:72:PRO:HB2	8:Ge:107:LEU:HD23	2.02	0.41
8:Gi:144:LEU:HA	8:Gi:147:ARG:HG2	2.01	0.41
8:Gl:41:LEU:HA	8:Gl:44:GLU:HG2	2.02	0.41
10:Iz:208:PRO:HA	10:Iz:211:ARG:HG2	2.02	0.41
10:Iz:220:ILE:HD12	10:Iz:221:PRO:HD2	2.03	0.41
10:Ja:208:PRO:HA	10:Ja:211:ARG:HG2	2.01	0.41
10:Jl:267:LEU:HA	10:Jm:277:THR:HG22	2.02	0.41
10:Jm:208:PRO:HA	10:Jm:211:ARG:HG2	2.01	0.41
10:Jt:220:ILE:HD12	10:Jt:221:PRO:HD2	2.03	0.41
11:Lj:71:GLY:HA2	11:Lk:99:ARG:HG2	2.02	0.41
13:Or:293:ALA:HA	13:Or:398:ALA:O	2.21	0.41
13:Ow:431:LEU:HB3	13:Ow:445:LEU:HD11	2.01	0.41
1:Ac:32:ILE:HD12	1:Ac:220:LEU:HD13	2.03	0.41
1:Ai:178:ASP:HB3	1:Ai:212:LEU:HD21	2.03	0.41
1:Ak:239:ARG:HD3	1:Ak:239:ARG:HA	1.76	0.41
1:Ao:141:ILE:HD13	1:Ao:158:VAL:HG21	2.02	0.41
1:Aq:243:MET:HE1	1:Ar:231:LEU:HD11	2.03	0.41
1:As:254:MET:HE2	1:At:238:GLN:HG3	2.03	0.41
1:Av:251:VAL:HA	1:Av:254:MET:HE3	2.03	0.41
1:Aw:56:SER:HA	2:Ba:141:GLY:HA3	2.02	0.41
1:Ax:16:GLN:HB2	1:Ax:241:TYR:HE2	1.86	0.41
1:Ay:254:MET:HE1	2:Bd:19:MET:HG2	2.03	0.41
3:Bk:15:ASP:HB2	3:Bk:38:PHE:HZ	1.86	0.41
3:Bn:381:LYS:HE3	3:Bn:381:LYS:HB3	1.92	0.41
4:By:255:ASN:ND2	4:Bz:244:MET:HE1	2.36	0.41
4:Ca:124:ASP:HB2	4:Cb:165:ALA:HB3	2.02	0.41
4:Ca:134:ASP:HB2	4:Cb:155:LYS:HB2	2.03	0.41
4:Cd:255:ASN:ND2	4:Ce:244:MET:HE1	2.36	0.41
4:Cn:205:TYR:CZ	4:Cn:236:SER:HB3	2.56	0.41
4:Cp:205:TYR:CZ	4:Cp:236:SER:HB3	2.56	0.41
4:Cv:205:TYR:CZ	4:Cv:236:SER:HB3	2.56	0.41
5:Cz:278:THR:HB	5:Cz:312:GLN:HB3	2.02	0.41
5:Dh:239:LEU:HD23	5:Dh:239:LEU:HA	1.92	0.41
5:Dl:189:SER:HA	5:Dl:216:ALA:HB2	2.03	0.41
5:Dl:252:VAL:HG13	5:Dl:259:ILE:HG12	2.02	0.41
5:Dl:278:THR:HB	5:Dl:312:GLN:HB3	2.03	0.41
5:Dm:205:LEU:HD13	5:Dm:209:MET:HE2	2.03	0.41
5:Dr:56:GLN:HE21	5:Dr:56:GLN:HB3	1.77	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ea:157:LEU:HA	6:Ea:161:SER:HB2	2.02	0.41
6:Ec:249:PRO:HG2	6:Ec:252:SER:HB3	2.03	0.41
6:Ee:319:SER:HB2	6:Ee:374:HIS:CE1	2.56	0.41
6:Ef:28:VAL:HG13	6:Ef:49:ALA:HB1	2.03	0.41
6:Eh:28:VAL:HG13	6:Eh:49:ALA:HB1	2.03	0.41
6:Ek:110:PRO:HD2	11:Kr:73:ARG:HH22	1.86	0.41
6:Eq:125:LEU:HD11	6:Eq:170:THR:HB	2.03	0.41
6:Ev:282:GLU:HA	6:Ev:286:SER:HB3	2.02	0.41
7:Fm:107:LEU:HD13	7:Fm:107:LEU:HA	1.96	0.41
7:Fq:185:LEU:HD22	7:Fq:199:SER:HB3	2.01	0.41
8:Fy:144:LEU:HA	8:Fy:147:ARG:HG2	2.02	0.41
8:Gl:31:PRO:HA	10:Jq:196:PRO:HB3	2.03	0.41
8:Gv:31:PRO:HA	10:Jw:196:PRO:HB3	2.03	0.41
10:Jf:226:VAL:HG21	10:Jf:254:VAL:HB	2.03	0.41
10:Jj:267:LEU:HA	10:Jk:277:THR:HG22	2.02	0.41
10:Jp:170:GLU:HG3	10:Jp:176:ILE:HG13	2.01	0.41
10:Jr:208:PRO:HA	10:Jr:211:ARG:HG2	2.02	0.41
10:Jt:208:PRO:HA	10:Jt:211:ARG:HG2	2.01	0.41
10:Jv:250:ARG:HH21	10:Jv:293:ARG:HH21	1.68	0.41
12:Ni:155:LEU:HD23	12:Ni:162:ILE:HD11	2.03	0.41
13:Oz:295:VAL:HG12	13:Oz:397:VAL:HG22	2.03	0.41
1:Ab:2:GLN:HG2	1:Ab:6:TRP:CD1	2.55	0.41
1:Ab:137:LEU:HG	1:Ab:139:PRO:HD2	2.03	0.41
1:Ad:159:SER:HB2	1:Ad:168:ASN:HB3	2.03	0.41
1:Aj:150:ILE:HG12	1:Aj:160:VAL:HG12	2.02	0.41
1:Al:52:PRO:HD3	1:Al:67:MET:HE3	2.02	0.41
1:Aq:96:MET:HG2	1:Aq:219:MET:HG3	2.02	0.41
1:Aq:177:VAL:HG22	1:Aq:204:GLU:HB3	2.02	0.41
1:At:259:ASN:HD21	2:Bv:227:MET:HE2	1.86	0.41
2:Ba:80:ILE:HG22	2:Ba:201:THR:HG22	2.03	0.41
3:Bm:404:VAL:HG13	3:Bo:6:LEU:HD22	2.03	0.41
4:Bz:205:TYR:CZ	4:Bz:236:SER:HB3	2.56	0.41
4:Ca:36:ASP:HB3	4:Ca:39:GLU:HG2	2.03	0.41
4:Ca:255:ASN:ND2	4:Cb:244:MET:HE1	2.36	0.41
4:Cb:205:TYR:CZ	4:Cb:236:SER:HB3	2.56	0.41
4:Cc:205:TYR:CZ	4:Cc:236:SER:HB3	2.56	0.41
4:Cc:255:ASN:ND2	4:Cd:244:MET:HE1	2.36	0.41
4:Ch:134:ASP:HB2	4:Ci:155:LYS:HB2	2.02	0.41
4:Cm:200:ASN:HB3	4:Cm:201:THR:H	1.68	0.41
4:Cm:205:TYR:CZ	4:Cm:236:SER:HB3	2.56	0.41
4:Cm:255:ASN:ND2	4:Cn:244:MET:HE1	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Cp:119:LYS:HB3	4:Cr:199:LEU:HD12	2.02	0.41
4:Cp:134:ASP:HB2	4:Cq:155:LYS:HB2	2.02	0.41
5:Cx:189:SER:HA	5:Cx:216:ALA:HB2	2.02	0.41
5:Cz:210:ALA:HB2	5:Cz:220:VAL:HG13	2.03	0.41
5:Dd:30:VAL:HG22	5:Dd:92:PHE:HE2	1.86	0.41
5:De:278:THR:HB	5:De:312:GLN:HB3	2.03	0.41
5:Df:211:SER:HB2	5:Dg:227:SER:HB3	2.02	0.41
5:Dj:252:VAL:HG13	5:Dj:259:ILE:HG12	2.02	0.41
5:Dj:259:ILE:HD11	5:Dj:342:MET:HB2	2.02	0.41
5:Dk:259:ILE:HD11	5:Dk:342:MET:HB2	2.02	0.41
5:Dp:103:VAL:HB	5:Dp:137:LEU:HD21	2.02	0.41
5:Dq:252:VAL:HG22	5:Dq:259:ILE:HG23	2.03	0.41
5:Dr:139:VAL:HG22	5:Dr:160:GLY:HA3	2.03	0.41
5:Dr:252:VAL:HG13	5:Dr:259:ILE:HG12	2.02	0.41
5:Dr:252:VAL:HG22	5:Dr:259:ILE:HG23	2.03	0.41
6:Dx:350:TYR:HE2	6:Dx:355:GLU:HG3	1.85	0.41
6:Dz:326:PHE:HD2	6:Dz:328:ASP:H	1.69	0.41
6:Eb:80:PHE:HD1	9:Hb:136:VAL:HG21	1.86	0.41
6:Ec:192:GLN:HG2	6:Ec:230:LYS:HE2	2.03	0.41
6:Ed:226:VAL:HB	6:Ed:236:MET:HB3	2.03	0.41
6:Ee:61:ILE:HD12	6:Ee:278:MET:HE3	2.03	0.41
6:Ef:319:SER:HB2	6:Ef:374:HIS:CE1	2.56	0.41
6:Eg:255:ASP:HB3	6:Eg:258:SER:HB3	2.03	0.41
6:Eh:86:ARG:CZ	11:Kl:95:ASP:HB2	2.51	0.41
6:Eh:350:TYR:HE2	6:Eh:355:GLU:HG3	1.86	0.41
6:Ei:86:ARG:HD3	6:Ei:86:ARG:HA	1.90	0.41
6:Ei:126:ILE:HG13	6:Ei:154:ASN:HB2	2.02	0.41
6:Ei:304:MET:HE2	6:Ei:356:LEU:HD21	2.02	0.41
6:Em:209:LYS:HD2	6:Em:212:GLN:HB2	2.02	0.41
6:Em:227:PHE:HE2	6:Em:234:GLU:HG2	1.86	0.41
6:Ep:167:VAL:HG21	6:Ep:191:ALA:HB2	2.03	0.41
6:Es:125:LEU:HD11	6:Es:170:THR:HB	2.03	0.41
6:Et:182:ILE:HG23	6:Et:194:ILE:HD12	2.02	0.41
6:Ev:319:SER:HB2	6:Ev:374:HIS:CE1	2.56	0.41
7:Ez:78:ARG:HB3	7:Ez:143:GLN:HE22	1.86	0.41
7:Fa:42:THR:HA	7:Fa:43:PRO:HD3	1.92	0.41
7:Fe:183:THR:HG21	7:Fe:206:ILE:HD11	2.02	0.41
7:Fj:254:LEU:HB3	7:Fj:259:ILE:HD11	2.03	0.41
7:Fk:116:TYR:HE2	8:Gk:198:GLU:HB3	1.84	0.41
7:Fl:78:ARG:HB3	7:Fl:143:GLN:HE22	1.86	0.41
7:Fl:104:ILE:HG23	7:Fm:145:ARG:HD3	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Fm:116:TYR:HE2	8:Gm:198:GLU:HB3	1.85	0.41
7:Fq:184:ILE:HG12	7:Fq:286:VAL:HG22	2.02	0.41
7:Fs:183:THR:HG21	7:Fs:206:ILE:HD11	2.03	0.41
7:Fw:183:THR:HG21	7:Fw:206:ILE:HD11	2.02	0.41
8:Fz:176:THR:HG22	8:Fz:185:ILE:HD12	2.02	0.41
8:Gh:100:GLU:HG3	8:Gi:211:TRP:HB3	2.03	0.41
8:Gl:176:THR:HG22	8:Gl:185:ILE:HD12	2.02	0.41
8:Gm:144:LEU:HA	8:Gm:147:ARG:HG2	2.02	0.41
8:Gn:41:LEU:HA	8:Gn:44:GLU:HG2	2.02	0.41
8:Gv:100:GLU:HG3	8:Gw:211:TRP:HB3	2.03	0.41
8:Gv:202:ALA:HA	8:Gv:205:LYS:HZ2	1.85	0.41
10:Ix:220:ILE:HD12	10:Ix:221:PRO:HD2	2.03	0.41
10:Ix:267:LEU:HA	10:Iy:277:THR:HG22	2.02	0.41
10:Jh:220:ILE:HD12	10:Jh:221:PRO:HD2	2.03	0.41
10:Jj:220:ILE:HD12	10:Jj:221:PRO:HD2	2.03	0.41
10:Jn:267:LEU:HA	10:Jo:277:THR:HG22	2.02	0.41
10:Jp:267:LEU:HA	10:Jq:277:THR:HG22	2.02	0.41
10:Jr:226:VAL:HG21	10:Jr:254:VAL:HB	2.03	0.41
10:Js:220:ILE:HD12	10:Js:221:PRO:HD2	2.03	0.41
10:Jv:267:LEU:HA	10:Jw:277:THR:HG22	2.02	0.41
11:Ko:72:MET:H	11:Kp:97:VAL:HG23	1.86	0.41
11:La:73:ARG:CD	11:La:73:ARG:HE	2.09	0.41
11:Lp:104:VAL:HG12	12:Nv:212:ILE:HG13	2.03	0.41
11:Ls:72:MET:H	11:Lt:97:VAL:HG23	1.85	0.41
12:Mf:155:LEU:HD23	12:Mf:162:ILE:HD11	2.03	0.41
12:Ml:155:LEU:HD23	12:Ml:162:ILE:HD11	2.02	0.41
12:Na:219:ILE:HG23	12:Nb:192:LEU:HD12	2.02	0.41
12:No:219:ILE:HG23	12:Np:192:LEU:HD12	2.02	0.41
13:Oj:296:ASP:HB3	13:Oj:396:THR:HG23	2.03	0.41
13:Oj:450:MET:HE3	13:Pq:285:ILE:HD13	2.03	0.41
13:Op:295:VAL:HG22	13:Op:397:VAL:HG22	2.02	0.41
13:Ot:324:LEU:HB3	13:Ot:371:GLU:HB3	2.03	0.41
13:Ox:296:ASP:O	13:Ox:395:GLN:HA	2.21	0.41
13:Pk:432:ILE:HG13	13:Pk:445:LEU:HD22	2.03	0.41
13:Pn:399:VAL:HG21	13:Pn:431:LEU:HD13	2.03	0.41
1:Aa:24:ASN:ND2	1:Ag:69:GLY:H	2.19	0.41
1:Ak:93:LEU:HD13	1:Ak:121:THR:HA	2.03	0.41
1:Am:152:ILE:HG12	1:Am:158:VAL:HG22	2.03	0.41
1:As:16:GLN:HG2	1:As:241:TYR:CE1	2.56	0.41
1:As:102:PHE:HB3	1:As:114:TYR:HB3	2.03	0.41
3:Bl:325:PHE:HE1	3:Bl:331:VAL:HG22	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ca:119:LYS:HB3	4:Cc:199:LEU:HD12	2.03	0.41
4:Ca:205:TYR:CZ	4:Ca:236:SER:HB3	2.56	0.41
4:Cd:131:ALA:HA	4:Ce:158:ASN:HA	2.01	0.41
4:Ce:205:TYR:CZ	4:Ce:236:SER:HB3	2.56	0.41
4:Ce:255:ASN:ND2	4:Cf:244:MET:HE1	2.36	0.41
4:Cf:119:LYS:HB3	4:Ch:199:LEU:HD12	2.02	0.41
4:Ci:36:ASP:HB3	4:Ci:39:GLU:HG2	2.02	0.41
4:Cj:205:TYR:CZ	4:Cj:236:SER:HB3	2.56	0.41
4:Cj:255:ASN:ND2	4:Ck:244:MET:HE1	2.36	0.41
4:Ck:205:TYR:CZ	4:Ck:236:SER:HB3	2.56	0.41
4:Cr:36:ASP:HB3	4:Cr:39:GLU:HG2	2.02	0.41
5:Cx:252:VAL:HG22	5:Cx:259:ILE:HG23	2.03	0.41
5:De:205:LEU:HD13	5:De:209:MET:HE2	2.03	0.41
5:Dg:252:VAL:HG22	5:Dg:259:ILE:HG23	2.03	0.41
5:Dh:252:VAL:HG13	5:Dh:259:ILE:HG12	2.02	0.41
5:Dj:252:VAL:HG22	5:Dj:259:ILE:HG23	2.03	0.41
5:Dm:252:VAL:HG13	5:Dm:259:ILE:HG12	2.02	0.41
5:Dn:239:LEU:HD23	5:Dn:239:LEU:HA	1.92	0.41
5:Do:252:VAL:HG22	5:Do:259:ILE:HG23	2.02	0.41
5:Dp:259:ILE:HD11	5:Dp:342:MET:HB2	2.02	0.41
5:Dr:239:LEU:HD23	5:Dr:239:LEU:HA	1.95	0.41
5:Dt:342:MET:HE2	5:Dv:138:VAL:HG21	2.02	0.41
6:Dz:239:THR:HG21	6:Ea:155:ARG:HD3	2.03	0.41
6:Ea:226:VAL:HB	6:Ea:236:MET:HB3	2.03	0.41
6:Ef:227:PHE:HD1	6:Ef:234:GLU:HA	1.86	0.41
6:Ek:228:ASP:HB2	6:Ek:235:VAL:HG11	2.03	0.41
6:El:167:VAL:HG21	6:El:191:ALA:HB2	2.01	0.41
6:Eo:375:LYS:HE3	6:Eo:377:MET:HE2	2.03	0.41
6:Eq:319:SER:HB2	6:Eq:374:HIS:CE1	2.56	0.41
7:Ex:78:ARG:HB3	7:Ex:143:GLN:HE22	1.85	0.41
7:Fi:183:THR:HG21	7:Fi:206:ILE:HD11	2.02	0.41
7:Fk:107:LEU:HD13	7:Fk:107:LEU:HA	1.96	0.41
7:Fk:183:THR:HG21	7:Fk:206:ILE:HD11	2.01	0.41
7:Fu:107:LEU:HD13	7:Fu:107:LEU:HA	1.96	0.41
8:Gb:66:ALA:HB1	8:Gb:75:GLU:HG2	2.03	0.41
8:Gd:32:ILE:H	8:Gd:32:ILE:HG13	1.46	0.41
8:Gj:31:PRO:HA	10:Jo:196:PRO:HB3	2.03	0.41
8:Gl:154:LEU:HB3	8:Gl:164:TYR:HE1	1.86	0.41
8:Gt:31:PRO:HA	10:Iy:196:PRO:HB3	2.02	0.41
8:Gt:41:LEU:HA	8:Gt:44:GLU:HG2	2.02	0.41
10:Je:220:ILE:HD12	10:Je:221:PRO:HD2	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Jm:250:ARG:HH21	10:Jm:293:ARG:HH21	1.67	0.41
11:Jy:71:GLY:HA2	11:Jz:99:ARG:HG2	2.01	0.41
11:Ka:71:GLY:HA2	11:Kb:99:ARG:HG2	2.02	0.41
13:Oy:396:THR:HG23	13:Oy:444:LEU:HB2	2.01	0.41
13:Pl:430:VAL:HG23	13:Pm:448:LEU:HD12	2.03	0.41
13:Pn:320:SER:HB3	13:Pn:375:ASN:HB3	2.02	0.41
1:Aa:70:ALA:HB1	1:Ao:86:VAL:HG12	2.03	0.40
1:Ae:93:LEU:HB3	1:Ae:120:PHE:HB2	2.03	0.40
1:Af:26:LEU:HD13	1:Af:26:LEU:HA	1.91	0.40
1:Af:73:LYS:HE3	1:Af:73:LYS:HB3	1.89	0.40
1:Ag:196:THR:HG22	1:An:161:ARG:HH12	1.85	0.40
1:Aj:129:VAL:HG12	1:Aj:136:ARG:HA	2.03	0.40
1:Ak:245:SER:HA	1:Ak:248:ILE:HG22	2.02	0.40
1:Ay:175:THR:HA	1:Ay:207:PRO:HD3	2.04	0.40
3:Bq:378:GLU:HB2	3:Bq:381:LYS:HD2	2.03	0.40
4:Bz:255:ASN:ND2	4:Ca:244:MET:HE1	2.36	0.40
4:Ce:36:ASP:HB3	4:Ce:39:GLU:HG2	2.02	0.40
4:Ce:229:SER:HB3	4:Cf:177:THR:HG22	2.04	0.40
4:Cg:134:ASP:HB2	4:Ch:155:LYS:HB2	2.03	0.40
4:Ci:33:THR:HG23	4:Ci:35:VAL:H	1.85	0.40
4:Ck:33:THR:HG23	4:Ck:35:VAL:H	1.85	0.40
4:Cl:200:ASN:HB3	4:Cl:201:THR:H	1.68	0.40
4:Cm:154:LEU:HD21	4:Co:258:LEU:HD11	2.03	0.40
4:Cq:36:ASP:HB3	4:Cq:39:GLU:HG2	2.02	0.40
4:Ct:255:ASN:ND2	4:Cu:244:MET:HE1	2.36	0.40
5:Da:252:VAL:HG13	5:Da:259:ILE:HG12	2.02	0.40
5:Dc:252:VAL:HG22	5:Dc:259:ILE:HG23	2.02	0.40
5:Dd:252:VAL:HG13	5:Dd:259:ILE:HG12	2.03	0.40
5:Di:205:LEU:HD13	5:Di:209:MET:HE2	2.03	0.40
5:Dk:205:LEU:HD13	5:Dk:209:MET:HE2	2.03	0.40
5:Dk:252:VAL:HG22	5:Dk:259:ILE:HG23	2.02	0.40
5:Dq:259:ILE:HD11	5:Dq:342:MET:HB2	2.02	0.40
5:Dr:205:LEU:HD11	5:Dr:236:ILE:HD11	2.02	0.40
5:Dt:252:VAL:HG22	5:Dt:259:ILE:HG23	2.03	0.40
6:Ee:108:ILE:HG23	6:Ee:110:PRO:HD3	2.04	0.40
6:Ef:350:TYR:HE2	6:Ef:355:GLU:HG3	1.86	0.40
6:Ek:373:MET:HE3	6:Ek:373:MET:HB2	1.89	0.40
6:Et:209:LYS:HD2	6:Et:212:GLN:HB2	2.02	0.40
6:Eu:255:ASP:HB3	6:Eu:258:SER:HB3	2.02	0.40
6:Ev:249:PRO:HG2	6:Ev:252:SER:HB3	2.03	0.40
7:Ez:264:TYR:HD1	7:Ez:264:TYR:HA	1.75	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Fx:139:ALA:HB1	8:Fx:147:ARG:HG2	2.03	0.40
8:Fy:98:TYR:HD1	8:Fy:98:TYR:HA	1.76	0.40
8:Gb:100:GLU:HG3	8:Gc:211:TRP:HB3	2.03	0.40
10:Jn:226:VAL:HG21	10:Jn:254:VAL:HB	2.03	0.40
10:Jq:220:ILE:HD12	10:Jq:221:PRO:HD2	2.03	0.40
10:Jr:220:ILE:HD12	10:Jr:221:PRO:HD2	2.03	0.40
10:Ju:220:ILE:HD12	10:Ju:221:PRO:HD2	2.03	0.40
12:Mp:155:LEU:HD23	12:Mp:162:ILE:HD11	2.03	0.40
13:Ow:430:VAL:HG23	13:Ox:448:LEU:HD12	2.02	0.40
13:Pk:266:LEU:HD22	13:Pk:301:PHE:HZ	1.86	0.40
1:Af:148:ILE:HB	1:Af:161:ARG:HB2	2.03	0.40
1:Ay:26:LEU:HD23	1:Ay:26:LEU:HA	1.95	0.40
1:Ay:46:TYR:HB2	2:Bd:178:VAL:HA	2.01	0.40
2:Bv:21:LEU:HD23	2:Bv:39:ALA:HB2	2.03	0.40
4:Bx:244:MET:HE1	4:Cw:255:ASN:ND2	2.37	0.40
4:Cb:36:ASP:HB3	4:Cb:39:GLU:HG2	2.02	0.40
4:Cf:134:ASP:HB2	4:Cg:155:LYS:HB2	2.02	0.40
4:Cl:134:ASP:HB2	4:Cm:155:LYS:HB2	2.02	0.40
4:Cn:255:ASN:ND2	4:Co:244:MET:HE1	2.36	0.40
4:Cq:205:TYR:CZ	4:Cq:236:SER:HB3	2.56	0.40
4:Ct:205:TYR:CZ	4:Ct:236:SER:HB3	2.56	0.40
5:Cz:189:SER:HA	5:Cz:216:ALA:HB2	2.02	0.40
5:Dh:224:ARG:HH21	6:Dy:369:ILE:H	1.69	0.40
5:Dk:252:VAL:HG13	5:Dk:259:ILE:HG12	2.02	0.40
5:Dn:259:ILE:HD11	5:Dn:342:MET:HB2	2.02	0.40
5:Do:205:LEU:HD13	5:Do:209:MET:HE2	2.03	0.40
5:Do:259:ILE:HD11	5:Do:342:MET:HB2	2.02	0.40
5:Dv:210:ALA:HB2	5:Dv:220:VAL:HG13	2.03	0.40
6:Ee:241:ARG:NH1	6:Ef:259:ALA:HB2	2.37	0.40
6:Eg:94:LYS:HG3	6:Eg:101:TYR:HB2	2.04	0.40
6:Ek:153:ILE:HG21	6:Ek:195:MET:HE1	2.03	0.40
6:Ek:241:ARG:NH1	6:El:259:ALA:HB2	2.36	0.40
6:Ep:78:TYR:HD2	6:Ep:88:ILE:HB	1.85	0.40
6:Er:182:ILE:HG23	6:Er:194:ILE:HD12	2.03	0.40
6:Eu:319:SER:HB2	6:Eu:374:HIS:CE1	2.56	0.40
7:Fh:197:LYS:HA	7:Fh:200:GLN:HB2	2.04	0.40
7:Fi:181:SER:HA	7:Fi:289:LEU:HD12	2.02	0.40
8:Fz:100:GLU:HG3	8:Ga:211:TRP:HB3	2.04	0.40
8:Gf:100:GLU:HG3	8:Gg:211:TRP:HB3	2.03	0.40
8:Gh:31:PRO:HA	10:Jm:196:PRO:HB3	2.03	0.40
8:Gh:71:LEU:HB3	8:Gh:74:TYR:HB2	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Jf:220:ILE:HD12	10:Jf:221:PRO:HD2	2.03	0.40
10:Jj:226:VAL:HG21	10:Jj:254:VAL:HB	2.03	0.40
10:Jr:267:LEU:HA	10:Js:277:THR:HG22	2.02	0.40
11:Lm:71:GLY:HA2	11:Ln:99:ARG:HG2	2.02	0.40
12:Nx:155:LEU:HD23	12:Nx:162:ILE:HD11	2.04	0.40
12:Nz:155:LEU:HD23	12:Nz:162:ILE:HD11	2.04	0.40
13:Oq:296:ASP:HB3	13:Oq:396:THR:OG1	2.21	0.40
13:Pg:288:LEU:HA	13:Pg:291:TYR:HE1	1.86	0.40
13:Pg:297:ILE:HG23	13:Pg:392:ILE:HG23	2.04	0.40
13:Ph:266:LEU:HD23	13:Ph:301:PHE:HZ	1.86	0.40
1:Ab:119:GLN:HG2	3:Bf:35:ARG:HH12	1.86	0.40
1:Af:185:LEU:HB3	1:Af:193:TYR:HB3	2.02	0.40
1:Aj:246:LYS:HB2	1:Aj:246:LYS:HE2	1.78	0.40
1:Ar:185:LEU:HB3	1:Ar:193:TYR:HB3	2.03	0.40
1:At:36:LYS:HG2	1:At:224:ASN:HD21	1.86	0.40
1:Ay:234:MET:HE2	1:Ay:234:MET:HB2	1.97	0.40
1:Bb:243:MET:HE1	2:Bc:211:ALA:HB1	2.03	0.40
3:Bo:130:VAL:HG12	3:Bo:137:VAL:HA	2.04	0.40
4:Bx:136:LEU:HD13	4:By:154:LEU:HD13	2.03	0.40
4:Bx:155:LYS:HB2	4:Cw:134:ASP:HB2	2.03	0.40
4:Bx:177:THR:HG22	4:Cw:229:SER:HB3	2.04	0.40
4:Cb:255:ASN:ND2	4:Cc:244:MET:HE1	2.36	0.40
4:Cd:205:TYR:CZ	4:Cd:236:SER:HB3	2.56	0.40
4:Cf:229:SER:HB3	4:Cg:177:THR:HG22	2.04	0.40
4:Ch:229:SER:HB3	4:Ci:177:THR:HG22	2.04	0.40
4:Cs:205:TYR:CZ	4:Cs:236:SER:HB3	2.56	0.40
4:Cu:255:ASN:ND2	4:Cv:244:MET:HE1	2.36	0.40
5:De:44:LEU:HA	5:De:45:PRO:HD3	1.95	0.40
5:De:252:VAL:HG22	5:De:259:ILE:HG23	2.03	0.40
5:Dg:139:VAL:HG22	5:Dg:160:GLY:HA3	2.03	0.40
5:Di:252:VAL:HG22	5:Di:259:ILE:HG23	2.03	0.40
5:Dm:259:ILE:HD11	5:Dm:342:MET:HB2	2.02	0.40
5:Dv:211:SER:HB2	5:Dw:227:SER:HB3	2.04	0.40
6:Dx:28:VAL:HG13	6:Dx:49:ALA:HB1	2.03	0.40
6:Dz:54:VAL:HG13	6:Dz:59:ALA:HB3	2.02	0.40
6:Ec:70:LEU:HD21	9:Hc:137:PRO:HD2	2.03	0.40
6:Ek:227:PHE:CE2	6:Ek:234:GLU:HG2	2.56	0.40
6:Em:373:MET:HE3	6:Em:373:MET:HB2	1.89	0.40
6:Ep:201:ASP:HB3	6:Ep:221:ALA:HB3	2.02	0.40
7:Ex:197:LYS:HA	7:Ex:200:GLN:HB2	2.04	0.40
7:Fc:183:THR:HG21	7:Fc:206:ILE:HD11	2.01	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Fe:140:GLN:HA	7:Fe:148:ARG:HA	2.02	0.40
7:Fm:221:VAL:HB	7:Fm:261:VAL:HG12	2.03	0.40
8:Gp:31:PRO:HA	10:Ju:196:PRO:HB3	2.03	0.40
10:Jc:220:ILE:HD12	10:Jc:221:PRO:HD2	2.03	0.40
10:Jg:220:ILE:HD12	10:Jg:221:PRO:HD2	2.03	0.40
10:Jh:226:VAL:HG21	10:Jh:254:VAL:HB	2.03	0.40
10:Jl:220:ILE:HD12	10:Jl:221:PRO:HD2	2.03	0.40
10:Jl:226:VAL:HG21	10:Jl:254:VAL:HB	2.03	0.40
10:Jp:226:VAL:HG21	10:Jp:254:VAL:HB	2.03	0.40
11:Lv:71:GLY:HA2	11:Lw:99:ARG:HG2	2.02	0.40
13:Os:274:LEU:HD23	13:Os:295:VAL:HG11	2.03	0.40
13:Pj:283:ILE:HD13	13:Pj:283:ILE:HA	1.99	0.40
13:Po:308:ARG:HB2	13:Po:383:SER:HB3	2.04	0.40
13:Pq:304:VAL:HB	13:Pq:387:LYS:HB2	2.02	0.40
1:Ad:129:VAL:HG12	1:Ad:136:ARG:HA	2.02	0.40
1:Ag:249:SER:HB2	3:Bt:433:ILE:HG12	2.04	0.40
1:Ah:73:LYS:HE3	1:Ah:73:LYS:HB3	1.93	0.40
1:Ah:219:MET:HE3	1:Ah:219:MET:HB2	1.98	0.40
1:Ay:235:ILE:O	1:Ay:239:ARG:HG2	2.22	0.40
1:Az:159:SER:HB2	1:Az:168:ASN:HB3	2.03	0.40
2:Ba:137:LYS:HD2	2:Ba:137:LYS:HA	1.93	0.40
3:Bf:399:MET:HG2	3:Bg:1:MET:N	2.37	0.40
3:Bn:399:MET:HE2	3:Bn:399:MET:HB2	1.94	0.40
3:Bp:54:PRO:HB3	3:Bs:18:THR:HG22	2.04	0.40
4:Bx:154:LEU:HD21	4:Bz:258:LEU:HD11	2.04	0.40
4:By:124:ASP:HB2	4:Bz:165:ALA:HB3	2.03	0.40
4:Cb:154:LEU:HD21	4:Cd:258:LEU:HD11	2.04	0.40
4:Cd:229:SER:HB3	4:Ce:177:THR:HG22	2.04	0.40
4:Cf:36:ASP:HB3	4:Cf:39:GLU:HG2	2.03	0.40
4:Cf:205:TYR:CZ	4:Cf:236:SER:HB3	2.56	0.40
4:Ci:134:ASP:HB2	4:Cj:155:LYS:HB2	2.02	0.40
4:Ci:205:TYR:CZ	4:Ci:236:SER:HB3	2.56	0.40
4:Cl:33:THR:HG23	4:Cl:35:VAL:H	1.86	0.40
4:Cw:205:TYR:CZ	4:Cw:236:SER:HB3	2.56	0.40
5:Df:252:VAL:HG13	5:Df:259:ILE:HG12	2.02	0.40
5:Dq:139:VAL:HG22	5:Dq:160:GLY:HA3	2.04	0.40
5:Dr:210:ALA:HB2	5:Dr:220:VAL:HG13	2.02	0.40
5:Ds:139:VAL:HG22	5:Ds:160:GLY:HA3	2.04	0.40
6:Ec:125:LEU:HD11	6:Ec:170:THR:HB	2.03	0.40
6:Ej:182:ILE:HG23	6:Ej:194:ILE:HD12	2.03	0.40
6:Ew:319:SER:HB2	6:Ew:374:HIS:CE1	2.55	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ez:112:GLN:HE21	7:Ez:112:GLN:HB3	1.63	0.40
7:Ff:141:ASP:HB2	7:Ff:149:ILE:HG12	2.04	0.40
7:Fm:181:SER:HA	7:Fm:289:LEU:HD12	2.02	0.40
7:Fp:141:ASP:HB2	7:Fp:149:ILE:HG12	2.04	0.40
7:Ft:112:GLN:HE21	7:Ft:112:GLN:HB3	1.62	0.40
8:Fy:72:PRO:HB2	8:Fy:107:LEU:HD23	2.03	0.40
8:Gb:29:PRO:HB2	8:Gb:30:VAL:H	1.74	0.40
8:Gb:192:LEU:HD13	8:Gb:192:LEU:HA	1.94	0.40
10:Ix:250:ARG:HH21	10:Ix:293:ARG:HH21	1.68	0.40
10:Jh:267:LEU:HA	10:Ji:277:THR:HG22	2.02	0.40
10:Ji:220:ILE:HD12	10:Ji:221:PRO:HD2	2.03	0.40
10:Jo:204:PRO:HA	10:Jo:207:ARG:HG3	2.04	0.40
10:Ju:204:PRO:HA	10:Ju:207:ARG:HG3	2.03	0.40
10:Jv:220:ILE:HD12	10:Jv:221:PRO:HD2	2.03	0.40
10:Jw:220:ILE:HD12	10:Jw:221:PRO:HD2	2.03	0.40
11:Ku:77:ARG:HH12	11:Kv:73:ARG:HH21	1.68	0.40
12:Ng:148:TYR:HE1	12:Ng:176:VAL:HG21	1.87	0.40
12:Nh:155:LEU:HD23	12:Nh:162:ILE:HD11	2.04	0.40
13:Op:428:ARG:O	13:Op:432:ILE:HG12	2.21	0.40
13:Os:394:ARG:HD2	13:Os:394:ARG:HA	1.84	0.40
13:Ow:450:MET:HE2	13:Ow:450:MET:HB3	1.94	0.40
1:Ag:95:MET:HG2	1:Ag:217:GLN:HE22	1.86	0.40
4:Bx:158:ASN:HA	4:Cw:131:ALA:HA	2.04	0.40
4:Bx:165:ALA:HB3	4:Cw:124:ASP:HB2	2.04	0.40
4:Bx:255:ASN:ND2	4:By:244:MET:HE1	2.36	0.40
4:By:119:LYS:HB3	4:Ca:199:LEU:HD12	2.04	0.40
4:Cu:205:TYR:CZ	4:Cu:236:SER:HB3	2.56	0.40
4:Cu:229:SER:HB3	4:Cv:177:THR:HG22	2.04	0.40
4:Cw:137:ALA:HA	4:Cw:142:ASP:HA	2.04	0.40
5:Cx:342:MET:HE2	5:Cz:138:VAL:HG21	2.02	0.40
5:Cy:252:VAL:HG22	5:Cy:259:ILE:HG23	2.03	0.40
5:Da:252:VAL:HG22	5:Da:259:ILE:HG23	2.03	0.40
5:Dc:205:LEU:HD13	5:Dc:209:MET:HE2	2.03	0.40
5:De:56:GLN:HE21	5:De:56:GLN:HB3	1.77	0.40
5:Df:30:VAL:HG22	5:Df:92:PHE:HE2	1.87	0.40
5:Df:139:VAL:HG22	5:Df:160:GLY:HA3	2.03	0.40
5:Dj:103:VAL:HB	5:Dj:137:LEU:HD21	2.02	0.40
5:Dj:210:ALA:HB2	5:Dj:220:VAL:HG13	2.03	0.40
5:Dm:252:VAL:HG22	5:Dm:259:ILE:HG23	2.03	0.40
5:Dp:44:LEU:HA	5:Dp:45:PRO:HD3	1.95	0.40
5:Dp:139:VAL:HG22	5:Dp:160:GLY:HA3	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Dx:88:ILE:HG23	6:Dx:106:ILE:HG12	2.03	0.40
6:Dx:110:PRO:HD2	11:Lu:73:ARG:HH22	1.86	0.40
6:Dx:319:SER:HB2	6:Dx:374:HIS:CE1	2.57	0.40
6:Ea:86:ARG:HA	6:Ea:86:ARG:HD3	1.77	0.40
6:Eb:38:GLU:HB2	6:Eb:100:MET:HE1	2.03	0.40
6:Ed:319:SER:HB2	6:Ed:374:HIS:CE1	2.57	0.40
6:Eq:241:ARG:NH1	6:Er:259:ALA:HB2	2.37	0.40
6:Es:262:TRP:HA	6:Es:267:GLY:HA3	2.02	0.40
7:Ex:141:ASP:HB2	7:Ex:149:ILE:HG12	2.02	0.40
7:Fa:184:ILE:HG12	7:Fa:286:VAL:HG22	2.03	0.40
7:Fd:197:LYS:HA	7:Fd:200:GLN:HB2	2.04	0.40
7:Fr:78:ARG:HB3	7:Fr:143:GLN:HE22	1.85	0.40
8:Gd:100:GLU:HG3	8:Ge:211:TRP:HB3	2.04	0.40
8:Ge:207:ARG:HD3	8:Ge:210:PHE:HA	2.04	0.40
10:Iz:250:ARG:HH21	10:Iz:293:ARG:HH21	1.69	0.40
10:Jn:277:THR:HA	10:Jo:267:LEU:HD22	2.04	0.40
10:Jo:220:ILE:HD12	10:Jo:221:PRO:HD2	2.03	0.40
11:Jy:77:ARG:HH12	11:Jz:73:ARG:HH21	1.68	0.40
12:Me:155:LEU:HD23	12:Me:162:ILE:HD11	2.04	0.40
12:Mn:155:LEU:HD23	12:Mn:162:ILE:HD11	2.04	0.40
12:Mz:155:LEU:HD23	12:Mz:162:ILE:HD11	2.04	0.40
12:Nb:155:LEU:HD23	12:Nb:162:ILE:HD11	2.04	0.40
12:Nq:155:LEU:HD23	12:Nq:162:ILE:HD11	2.04	0.40
12:Oh:155:LEU:HD23	12:Oh:162:ILE:HD11	2.04	0.40
13:Ox:295:VAL:HG22	13:Ox:397:VAL:HG22	2.03	0.40
13:Pa:438:SER:HB3	13:Pb:394:ARG:HH12	1.86	0.40
13:Pe:315:THR:HB	13:Pf:313:PRO:HG3	2.04	0.40
13:Pg:315:THR:HB	13:Ph:313:PRO:HG3	2.03	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	260/262 (99%)	260 (100%)	0	0	100	100
1	Ab	260/262 (99%)	255 (98%)	5 (2%)	0	100	100
1	Ac	260/262 (99%)	258 (99%)	2 (1%)	0	100	100
1	Ad	260/262 (99%)	257 (99%)	3 (1%)	0	100	100
1	Ae	260/262 (99%)	250 (96%)	10 (4%)	0	100	100
1	Af	260/262 (99%)	258 (99%)	2 (1%)	0	100	100
1	Ag	260/262 (99%)	256 (98%)	4 (2%)	0	100	100
1	Ah	260/262 (99%)	257 (99%)	3 (1%)	0	100	100
1	Ai	260/262 (99%)	255 (98%)	5 (2%)	0	100	100
1	Aj	260/262 (99%)	256 (98%)	4 (2%)	0	100	100
1	Ak	260/262 (99%)	257 (99%)	3 (1%)	0	100	100
1	Al	260/262 (99%)	259 (100%)	1 (0%)	0	100	100
1	Am	260/262 (99%)	256 (98%)	3 (1%)	1 (0%)	30	61
1	An	260/262 (99%)	255 (98%)	5 (2%)	0	100	100
1	Ao	260/262 (99%)	257 (99%)	3 (1%)	0	100	100
1	Ap	248/262 (95%)	247 (100%)	1 (0%)	0	100	100
1	Aq	260/262 (99%)	256 (98%)	4 (2%)	0	100	100
1	Ar	243/262 (93%)	239 (98%)	4 (2%)	0	100	100
1	As	260/262 (99%)	253 (97%)	6 (2%)	1 (0%)	30	61
1	At	247/262 (94%)	242 (98%)	5 (2%)	0	100	100
1	Au	260/262 (99%)	251 (96%)	9 (4%)	0	100	100
1	Av	243/262 (93%)	241 (99%)	1 (0%)	1 (0%)	30	61
1	Aw	260/262 (99%)	256 (98%)	4 (2%)	0	100	100
1	Ax	245/262 (94%)	242 (99%)	3 (1%)	0	100	100
1	Ay	244/262 (93%)	241 (99%)	3 (1%)	0	100	100
1	Az	245/262 (94%)	244 (100%)	1 (0%)	0	100	100
1	Bb	249/262 (95%)	249 (100%)	0	0	100	100
2	Ba	237/249 (95%)	232 (98%)	5 (2%)	0	100	100
2	Bc	247/249 (99%)	245 (99%)	2 (1%)	0	100	100
2	Bd	240/249 (96%)	237 (99%)	3 (1%)	0	100	100
2	Bv	228/249 (92%)	219 (96%)	8 (4%)	1 (0%)	30	61
2	Bw	247/249 (99%)	244 (99%)	3 (1%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	Be	264/434 (61%)	260 (98%)	4 (2%)	0	100	100
3	Bf	264/434 (61%)	256 (97%)	8 (3%)	0	100	100
3	Bg	266/434 (61%)	265 (100%)	1 (0%)	0	100	100
3	Bh	264/434 (61%)	259 (98%)	5 (2%)	0	100	100
3	Bi	266/434 (61%)	262 (98%)	4 (2%)	0	100	100
3	Bj	266/434 (61%)	263 (99%)	3 (1%)	0	100	100
3	Bk	266/434 (61%)	262 (98%)	4 (2%)	0	100	100
3	Bl	266/434 (61%)	263 (99%)	3 (1%)	0	100	100
3	Bm	266/434 (61%)	262 (98%)	4 (2%)	0	100	100
3	Bn	266/434 (61%)	262 (98%)	4 (2%)	0	100	100
3	Bo	266/434 (61%)	260 (98%)	6 (2%)	0	100	100
3	Bp	266/434 (61%)	262 (98%)	4 (2%)	0	100	100
3	Bq	266/434 (61%)	257 (97%)	9 (3%)	0	100	100
3	Br	266/434 (61%)	260 (98%)	6 (2%)	0	100	100
3	Bs	266/434 (61%)	261 (98%)	5 (2%)	0	100	100
3	Bt	266/434 (61%)	263 (99%)	3 (1%)	0	100	100
3	Bu	266/434 (61%)	264 (99%)	2 (1%)	0	100	100
4	Bx	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	By	219/227 (96%)	215 (98%)	4 (2%)	0	100	100
4	Bz	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Ca	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cb	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cc	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cd	219/227 (96%)	215 (98%)	4 (2%)	0	100	100
4	Ce	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cf	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cg	219/227 (96%)	213 (97%)	6 (3%)	0	100	100
4	Ch	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Ci	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cj	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Ck	219/227 (96%)	214 (98%)	5 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	Cl	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cm	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cn	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Co	219/227 (96%)	215 (98%)	4 (2%)	0	100	100
4	Cp	219/227 (96%)	213 (97%)	6 (3%)	0	100	100
4	Cq	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cr	219/227 (96%)	213 (97%)	6 (3%)	0	100	100
4	Cs	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Ct	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cu	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cv	219/227 (96%)	214 (98%)	5 (2%)	0	100	100
4	Cw	219/227 (96%)	215 (98%)	4 (2%)	0	100	100
5	Cx	312/343 (91%)	304 (97%)	8 (3%)	0	100	100
5	Cy	312/343 (91%)	307 (98%)	5 (2%)	0	100	100
5	Cz	312/343 (91%)	305 (98%)	7 (2%)	0	100	100
5	Da	312/343 (91%)	307 (98%)	5 (2%)	0	100	100
5	Db	312/343 (91%)	305 (98%)	7 (2%)	0	100	100
5	Dc	312/343 (91%)	306 (98%)	6 (2%)	0	100	100
5	Dd	312/343 (91%)	306 (98%)	6 (2%)	0	100	100
5	De	312/343 (91%)	305 (98%)	7 (2%)	0	100	100
5	Df	312/343 (91%)	306 (98%)	6 (2%)	0	100	100
5	Dg	312/343 (91%)	307 (98%)	5 (2%)	0	100	100
5	Dh	312/343 (91%)	305 (98%)	7 (2%)	0	100	100
5	Di	312/343 (91%)	307 (98%)	5 (2%)	0	100	100
5	Dj	312/343 (91%)	306 (98%)	6 (2%)	0	100	100
5	Dk	312/343 (91%)	306 (98%)	6 (2%)	0	100	100
5	Dl	312/343 (91%)	305 (98%)	7 (2%)	0	100	100
5	Dm	312/343 (91%)	307 (98%)	5 (2%)	0	100	100
5	Dn	312/343 (91%)	305 (98%)	7 (2%)	0	100	100
5	Do	312/343 (91%)	306 (98%)	6 (2%)	0	100	100
5	Dp	312/343 (91%)	306 (98%)	6 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	Dq	312/343 (91%)	305 (98%)	7 (2%)	0	100	100
5	Dr	312/343 (91%)	305 (98%)	7 (2%)	0	100	100
5	Ds	312/343 (91%)	305 (98%)	7 (2%)	0	100	100
5	Dt	312/343 (91%)	304 (97%)	8 (3%)	0	100	100
5	Du	312/343 (91%)	306 (98%)	6 (2%)	0	100	100
5	Dv	312/343 (91%)	305 (98%)	7 (2%)	0	100	100
5	Dw	312/343 (91%)	307 (98%)	5 (2%)	0	100	100
6	Dx	350/352 (99%)	344 (98%)	6 (2%)	0	100	100
6	Dy	350/352 (99%)	336 (96%)	14 (4%)	0	100	100
6	Dz	350/352 (99%)	346 (99%)	4 (1%)	0	100	100
6	Ea	350/352 (99%)	345 (99%)	5 (1%)	0	100	100
6	Eb	350/352 (99%)	343 (98%)	7 (2%)	0	100	100
6	Ec	350/352 (99%)	344 (98%)	6 (2%)	0	100	100
6	Ed	350/352 (99%)	344 (98%)	6 (2%)	0	100	100
6	Ee	350/352 (99%)	342 (98%)	8 (2%)	0	100	100
6	Ef	350/352 (99%)	343 (98%)	7 (2%)	0	100	100
6	Eg	350/352 (99%)	344 (98%)	6 (2%)	0	100	100
6	Eh	350/352 (99%)	342 (98%)	8 (2%)	0	100	100
6	Ei	350/352 (99%)	341 (97%)	9 (3%)	0	100	100
6	Ej	350/352 (99%)	342 (98%)	8 (2%)	0	100	100
6	Ek	350/352 (99%)	343 (98%)	7 (2%)	0	100	100
6	El	350/352 (99%)	343 (98%)	7 (2%)	0	100	100
6	Em	350/352 (99%)	342 (98%)	8 (2%)	0	100	100
6	En	350/352 (99%)	342 (98%)	8 (2%)	0	100	100
6	Eo	350/352 (99%)	344 (98%)	6 (2%)	0	100	100
6	Ep	350/352 (99%)	343 (98%)	7 (2%)	0	100	100
6	Eq	350/352 (99%)	339 (97%)	11 (3%)	0	100	100
6	Er	350/352 (99%)	340 (97%)	10 (3%)	0	100	100
6	Es	350/352 (99%)	346 (99%)	4 (1%)	0	100	100
6	Et	350/352 (99%)	339 (97%)	11 (3%)	0	100	100
6	Eu	350/352 (99%)	344 (98%)	6 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	Ev	350/352 (99%)	341 (97%)	9 (3%)	0	100	100
6	Ew	350/352 (99%)	342 (98%)	8 (2%)	0	100	100
7	Ex	253/271 (93%)	235 (93%)	18 (7%)	0	100	100
7	Ey	254/271 (94%)	230 (91%)	22 (9%)	2 (1%)	16	49
7	Ez	253/271 (93%)	235 (93%)	18 (7%)	0	100	100
7	Fa	254/271 (94%)	232 (91%)	21 (8%)	1 (0%)	30	61
7	Fb	253/271 (93%)	237 (94%)	16 (6%)	0	100	100
7	Fc	254/271 (94%)	233 (92%)	20 (8%)	1 (0%)	30	61
7	Fd	253/271 (93%)	235 (93%)	18 (7%)	0	100	100
7	Fe	254/271 (94%)	232 (91%)	20 (8%)	2 (1%)	16	49
7	Ff	253/271 (93%)	236 (93%)	17 (7%)	0	100	100
7	Fg	254/271 (94%)	231 (91%)	21 (8%)	2 (1%)	16	49
7	Fh	253/271 (93%)	232 (92%)	21 (8%)	0	100	100
7	Fi	254/271 (94%)	231 (91%)	21 (8%)	2 (1%)	16	49
7	Fj	253/271 (93%)	237 (94%)	16 (6%)	0	100	100
7	Fk	254/271 (94%)	232 (91%)	21 (8%)	1 (0%)	30	61
7	Fl	253/271 (93%)	237 (94%)	16 (6%)	0	100	100
7	Fm	254/271 (94%)	230 (91%)	23 (9%)	1 (0%)	30	61
7	Fn	253/271 (93%)	234 (92%)	19 (8%)	0	100	100
7	Fo	254/271 (94%)	232 (91%)	21 (8%)	1 (0%)	30	61
7	Fp	253/271 (93%)	237 (94%)	16 (6%)	0	100	100
7	Fq	254/271 (94%)	231 (91%)	22 (9%)	1 (0%)	30	61
7	Fr	253/271 (93%)	237 (94%)	16 (6%)	0	100	100
7	Fs	254/271 (94%)	230 (91%)	23 (9%)	1 (0%)	30	61
7	Ft	253/271 (93%)	237 (94%)	16 (6%)	0	100	100
7	Fu	254/271 (94%)	231 (91%)	21 (8%)	2 (1%)	16	49
7	Fv	253/271 (93%)	237 (94%)	16 (6%)	0	100	100
7	Fw	254/271 (94%)	230 (91%)	22 (9%)	2 (1%)	16	49
8	Fx	181/183 (99%)	171 (94%)	9 (5%)	1 (1%)	21	54
8	Fy	181/183 (99%)	177 (98%)	4 (2%)	0	100	100
8	Fz	181/183 (99%)	171 (94%)	9 (5%)	1 (1%)	21	54

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	Ga	181/183 (99%)	177 (98%)	4 (2%)	0	100	100
8	Gb	181/183 (99%)	171 (94%)	9 (5%)	1 (1%)	21	54
8	Gc	181/183 (99%)	177 (98%)	4 (2%)	0	100	100
8	Gd	181/183 (99%)	172 (95%)	9 (5%)	0	100	100
8	Ge	181/183 (99%)	176 (97%)	5 (3%)	0	100	100
8	Gf	181/183 (99%)	171 (94%)	9 (5%)	1 (1%)	21	54
8	Gg	181/183 (99%)	177 (98%)	4 (2%)	0	100	100
8	Gh	181/183 (99%)	172 (95%)	8 (4%)	1 (1%)	21	54
8	Gi	181/183 (99%)	177 (98%)	4 (2%)	0	100	100
8	Gj	181/183 (99%)	173 (96%)	7 (4%)	1 (1%)	21	54
8	Gk	181/183 (99%)	177 (98%)	4 (2%)	0	100	100
8	Gl	181/183 (99%)	171 (94%)	9 (5%)	1 (1%)	21	54
8	Gm	181/183 (99%)	177 (98%)	4 (2%)	0	100	100
8	Gn	181/183 (99%)	172 (95%)	8 (4%)	1 (1%)	21	54
8	Go	181/183 (99%)	177 (98%)	4 (2%)	0	100	100
8	Gp	181/183 (99%)	172 (95%)	8 (4%)	1 (1%)	21	54
8	Gq	181/183 (99%)	177 (98%)	4 (2%)	0	100	100
8	Gr	181/183 (99%)	172 (95%)	8 (4%)	1 (1%)	21	54
8	Gs	181/183 (99%)	178 (98%)	3 (2%)	0	100	100
8	Gt	181/183 (99%)	171 (94%)	9 (5%)	1 (1%)	21	54
8	Gu	181/183 (99%)	177 (98%)	4 (2%)	0	100	100
8	Gv	181/183 (99%)	171 (94%)	9 (5%)	1 (1%)	21	54
8	Gw	181/183 (99%)	177 (98%)	4 (2%)	0	100	100
9	Gx	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Gy	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Gz	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Ha	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hb	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hc	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hd	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	He	10/12 (83%)	8 (80%)	2 (20%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	Hf	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hg	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hh	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hi	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hj	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hk	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hl	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hm	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hn	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Ho	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hp	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hq	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hr	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hs	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Ht	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hu	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hv	10/12 (83%)	9 (90%)	1 (10%)	0	100	100
9	Hw	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Hx	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Hy	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Hz	10/12 (83%)	7 (70%)	3 (30%)	0	100	100
9	Ia	10/12 (83%)	7 (70%)	3 (30%)	0	100	100
9	Ib	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Ic	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Id	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Ie	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	If	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Ig	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Ih	10/12 (83%)	7 (70%)	3 (30%)	0	100	100
9	Ii	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Ij	10/12 (83%)	7 (70%)	3 (30%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	Ik	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Il	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Im	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	In	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Io	10/12 (83%)	7 (70%)	3 (30%)	0	100	100
9	Ip	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Iq	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Ir	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Is	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	It	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Iu	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Iv	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
9	Iw	10/12 (83%)	8 (80%)	2 (20%)	0	100	100
10	Ix	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Iy	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Iz	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Ja	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jb	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jc	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jd	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Je	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jf	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jg	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jh	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Ji	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jj	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jk	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jl	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jm	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jn	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jo	153/155 (99%)	149 (97%)	4 (3%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
10	Jp	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jq	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jr	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Js	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jt	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Ju	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jv	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
10	Jw	153/155 (99%)	150 (98%)	3 (2%)	0	100	100
11	Jx	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Jy	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Jz	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Ka	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kb	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kc	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kd	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Ke	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kf	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Kg	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kh	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Ki	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Kj	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kk	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kl	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Km	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kn	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Ko	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kp	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Kq	102/105 (97%)	96 (94%)	6 (6%)	0	100	100
11	Kr	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Ks	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kt	102/105 (97%)	98 (96%)	4 (4%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	Ku	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kv	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kw	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Kx	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Ky	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Kz	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	La	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Lb	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Lc	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Ld	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Le	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Lf	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Lg	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Lh	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Li	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Lj	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Lk	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Ll	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Lm	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Ln	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Lo	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Lp	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Lq	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Lr	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Ls	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Lt	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Lu	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Lv	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Lw	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Lx	102/105 (97%)	97 (95%)	5 (5%)	0	100	100
11	Ly	102/105 (97%)	98 (96%)	4 (4%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	Lz	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Ma	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Mb	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
11	Mc	102/105 (97%)	98 (96%)	4 (4%)	0	100	100
12	Md	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Me	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mf	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mg	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mh	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mi	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mj	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mk	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Ml	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mm	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mn	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mo	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mp	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mq	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mr	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Ms	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mt	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mu	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mv	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mw	188/190 (99%)	179 (95%)	8 (4%)	1 (0%)	24	57
12	Mx	188/190 (99%)	179 (95%)	8 (4%)	1 (0%)	24	57
12	My	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Mz	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Na	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nb	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nc	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nd	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
12	Ne	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nf	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Ng	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nh	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Ni	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nj	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nk	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nl	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nm	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nn	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	No	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Np	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nq	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nr	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Ns	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nt	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nu	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nv	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nw	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nx	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Ny	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Nz	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Oa	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Ob	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Oc	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Od	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Oe	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Of	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Og	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Oh	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57
12	Oi	188/190 (99%)	180 (96%)	7 (4%)	1 (0%)	24	57

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	Oj	138/144 (96%)	138 (100%)	0	0	100	100
13	Ok	138/144 (96%)	136 (99%)	2 (1%)	0	100	100
13	Ol	138/144 (96%)	136 (99%)	2 (1%)	0	100	100
13	Om	138/144 (96%)	137 (99%)	1 (1%)	0	100	100
13	On	138/144 (96%)	138 (100%)	0	0	100	100
13	Oo	138/144 (96%)	136 (99%)	2 (1%)	0	100	100
13	Op	138/144 (96%)	138 (100%)	0	0	100	100
13	Oq	138/144 (96%)	138 (100%)	0	0	100	100
13	Or	138/144 (96%)	137 (99%)	1 (1%)	0	100	100
13	Os	138/144 (96%)	136 (99%)	2 (1%)	0	100	100
13	Ot	138/144 (96%)	136 (99%)	2 (1%)	0	100	100
13	Ou	138/144 (96%)	136 (99%)	2 (1%)	0	100	100
13	Ov	138/144 (96%)	137 (99%)	1 (1%)	0	100	100
13	Ow	138/144 (96%)	135 (98%)	3 (2%)	0	100	100
13	Ox	138/144 (96%)	137 (99%)	1 (1%)	0	100	100
13	Oy	138/144 (96%)	137 (99%)	1 (1%)	0	100	100
13	Oz	138/144 (96%)	137 (99%)	1 (1%)	0	100	100
13	Pa	138/144 (96%)	131 (95%)	7 (5%)	0	100	100
13	Pb	138/144 (96%)	137 (99%)	1 (1%)	0	100	100
13	Pc	138/144 (96%)	138 (100%)	0	0	100	100
13	Pd	138/144 (96%)	135 (98%)	3 (2%)	0	100	100
13	Pe	138/144 (96%)	135 (98%)	3 (2%)	0	100	100
13	Pf	138/144 (96%)	135 (98%)	3 (2%)	0	100	100
13	Pg	138/144 (96%)	138 (100%)	0	0	100	100
13	Ph	138/144 (96%)	138 (100%)	0	0	100	100
13	Pi	138/144 (96%)	136 (99%)	2 (1%)	0	100	100
13	Pj	138/144 (96%)	137 (99%)	1 (1%)	0	100	100
13	Pk	138/144 (96%)	136 (99%)	2 (1%)	0	100	100
13	Pl	138/144 (96%)	137 (99%)	1 (1%)	0	100	100
13	Pm	138/144 (96%)	136 (99%)	2 (1%)	0	100	100
13	Pn	138/144 (96%)	138 (100%)	0	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	Po	138/144 (96%)	135 (98%)	3 (2%)	0	100	100
13	Pp	138/144 (96%)	136 (99%)	2 (1%)	0	100	100
13	Pq	138/144 (96%)	135 (98%)	3 (2%)	0	100	100
All	All	72832/78133 (93%)	70519 (97%)	2220 (3%)	93 (0%)	49	79

All (93) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	As	138	GLN
2	Bv	134	PRO
1	Av	138	GLN
1	Am	141	ILE
7	Ey	116	TYR
7	Fe	116	TYR
7	Fg	116	TYR
7	Fi	116	TYR
7	Fu	116	TYR
7	Fw	116	TYR
8	Fx	87	CYS
8	Fz	87	CYS
8	Gb	87	CYS
8	Gf	87	CYS
8	Gh	87	CYS
8	Gj	87	CYS
8	Gl	87	CYS
8	Gn	87	CYS
8	Gp	87	CYS
8	Gr	87	CYS
8	Gt	87	CYS
8	Gv	87	CYS
12	Md	86	LEU
12	Me	86	LEU
12	Mf	86	LEU
12	Mg	86	LEU
12	Mh	86	LEU
12	Mi	86	LEU
12	Mj	86	LEU
12	Mk	86	LEU
12	Ml	86	LEU
12	Mm	86	LEU
12	Mn	86	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Mo	86	LEU
12	Mp	86	LEU
12	Mq	86	LEU
12	Mr	86	LEU
12	Ms	86	LEU
12	Mt	86	LEU
12	Mu	86	LEU
12	Mv	86	LEU
12	Mw	86	LEU
12	Mx	86	LEU
12	My	86	LEU
12	Mz	86	LEU
12	Na	86	LEU
12	Nb	86	LEU
12	Nc	86	LEU
12	Nd	86	LEU
12	Ne	86	LEU
12	Nf	86	LEU
12	Ng	86	LEU
12	Nh	86	LEU
12	Ni	86	LEU
12	Nj	86	LEU
12	Nk	86	LEU
12	Nl	86	LEU
12	Nm	86	LEU
12	Nn	86	LEU
12	No	86	LEU
12	Np	86	LEU
12	Nq	86	LEU
12	Nr	86	LEU
12	Ns	86	LEU
12	Nt	86	LEU
12	Nu	86	LEU
12	Nv	86	LEU
12	Nw	86	LEU
12	Nx	86	LEU
12	Ny	86	LEU
12	Nz	86	LEU
12	Oa	86	LEU
12	Ob	86	LEU
12	Oc	86	LEU
12	Od	86	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Oe	86	LEU
12	Of	86	LEU
12	Og	86	LEU
12	Oh	86	LEU
12	Oi	86	LEU
7	Ey	193	VAL
7	Fa	193	VAL
7	Fc	193	VAL
7	Fe	193	VAL
7	Fg	193	VAL
7	Fi	193	VAL
7	Fk	193	VAL
7	Fm	193	VAL
7	Fo	193	VAL
7	Fq	193	VAL
7	Fs	193	VAL
7	Fu	193	VAL
7	Fw	193	VAL

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	218/218 (100%)	216 (99%)	2 (1%)	70	76
1	Ab	218/218 (100%)	213 (98%)	5 (2%)	44	64
1	Ac	218/218 (100%)	213 (98%)	5 (2%)	44	64
1	Ad	218/218 (100%)	214 (98%)	4 (2%)	51	68
1	Ae	218/218 (100%)	216 (99%)	2 (1%)	70	76
1	Af	218/218 (100%)	215 (99%)	3 (1%)	59	71
1	Ag	218/218 (100%)	215 (99%)	3 (1%)	59	71
1	Ah	218/218 (100%)	212 (97%)	6 (3%)	38	60
1	Ai	218/218 (100%)	217 (100%)	1 (0%)	81	80
1	Aj	218/218 (100%)	216 (99%)	2 (1%)	70	76

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Ak	218/218 (100%)	214 (98%)	4 (2%)	51	68
1	Al	218/218 (100%)	213 (98%)	5 (2%)	44	64
1	Am	217/218 (100%)	216 (100%)	1 (0%)	81	80
1	An	218/218 (100%)	213 (98%)	5 (2%)	44	64
1	Ao	218/218 (100%)	217 (100%)	1 (0%)	81	80
1	Ap	209/218 (96%)	206 (99%)	3 (1%)	59	71
1	Aq	218/218 (100%)	216 (99%)	2 (1%)	70	76
1	Ar	206/218 (94%)	202 (98%)	4 (2%)	50	67
1	As	218/218 (100%)	216 (99%)	2 (1%)	70	76
1	At	209/218 (96%)	204 (98%)	5 (2%)	43	63
1	Au	218/218 (100%)	214 (98%)	4 (2%)	51	68
1	Av	205/218 (94%)	199 (97%)	6 (3%)	37	60
1	Aw	218/218 (100%)	213 (98%)	5 (2%)	44	64
1	Ax	207/218 (95%)	202 (98%)	5 (2%)	43	63
1	Ay	206/218 (94%)	205 (100%)	1 (0%)	81	80
1	Az	207/218 (95%)	203 (98%)	4 (2%)	50	67
1	Bb	210/218 (96%)	207 (99%)	3 (1%)	59	71
2	Ba	197/202 (98%)	195 (99%)	2 (1%)	68	75
2	Bc	202/202 (100%)	199 (98%)	3 (2%)	57	70
2	Bd	199/202 (98%)	195 (98%)	4 (2%)	48	66
2	Bv	187/202 (93%)	183 (98%)	4 (2%)	47	65
2	Bw	201/202 (100%)	198 (98%)	3 (2%)	57	70
3	Be	221/359 (62%)	219 (99%)	2 (1%)	70	76
3	Bf	221/359 (62%)	218 (99%)	3 (1%)	59	71
3	Bg	223/359 (62%)	221 (99%)	2 (1%)	70	76
3	Bh	221/359 (62%)	215 (97%)	6 (3%)	39	61
3	Bi	223/359 (62%)	221 (99%)	2 (1%)	70	76
3	Bj	223/359 (62%)	220 (99%)	3 (1%)	61	72
3	Bk	223/359 (62%)	221 (99%)	2 (1%)	70	76
3	Bl	223/359 (62%)	220 (99%)	3 (1%)	61	72
3	Bm	223/359 (62%)	215 (96%)	8 (4%)	31	56

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	Bn	223/359 (62%)	221 (99%)	2 (1%)	70	76
3	Bo	223/359 (62%)	220 (99%)	3 (1%)	61	72
3	Bp	223/359 (62%)	219 (98%)	4 (2%)	51	68
3	Bq	223/359 (62%)	219 (98%)	4 (2%)	51	68
3	Br	223/359 (62%)	223 (100%)	0	100	100
3	Bs	223/359 (62%)	220 (99%)	3 (1%)	61	72
3	Bt	223/359 (62%)	220 (99%)	3 (1%)	61	72
3	Bu	223/359 (62%)	221 (99%)	2 (1%)	70	76
4	Bx	182/186 (98%)	178 (98%)	4 (2%)	45	65
4	By	182/186 (98%)	177 (97%)	5 (3%)	39	61
4	Bz	182/186 (98%)	178 (98%)	4 (2%)	45	65
4	Ca	182/186 (98%)	177 (97%)	5 (3%)	39	61
4	Cb	182/186 (98%)	178 (98%)	4 (2%)	45	65
4	Cc	182/186 (98%)	177 (97%)	5 (3%)	39	61
4	Cd	182/186 (98%)	178 (98%)	4 (2%)	45	65
4	Ce	182/186 (98%)	177 (97%)	5 (3%)	39	61
4	Cf	182/186 (98%)	178 (98%)	4 (2%)	45	65
4	Cg	182/186 (98%)	177 (97%)	5 (3%)	39	61
4	Ch	182/186 (98%)	177 (97%)	5 (3%)	39	61
4	Ci	182/186 (98%)	178 (98%)	4 (2%)	45	65
4	Cj	182/186 (98%)	179 (98%)	3 (2%)	55	69
4	Ck	182/186 (98%)	178 (98%)	4 (2%)	45	65
4	Cl	182/186 (98%)	178 (98%)	4 (2%)	45	65
4	Cm	182/186 (98%)	178 (98%)	4 (2%)	45	65
4	Cn	182/186 (98%)	177 (97%)	5 (3%)	39	61
4	Co	182/186 (98%)	177 (97%)	5 (3%)	39	61
4	Cp	182/186 (98%)	177 (97%)	5 (3%)	39	61
4	Cq	182/186 (98%)	177 (97%)	5 (3%)	39	61
4	Cr	182/186 (98%)	178 (98%)	4 (2%)	45	65
4	Cs	182/186 (98%)	179 (98%)	3 (2%)	55	69
4	Ct	182/186 (98%)	179 (98%)	3 (2%)	55	69

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	Cu	182/186 (98%)	178 (98%)	4 (2%)	45	65
4	Cv	182/186 (98%)	177 (97%)	5 (3%)	39	61
4	Cw	182/186 (98%)	177 (97%)	5 (3%)	39	61
5	Cx	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Cy	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Cz	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Da	246/269 (91%)	239 (97%)	7 (3%)	38	60
5	Db	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Dc	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Dd	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	De	246/269 (91%)	239 (97%)	7 (3%)	38	60
5	Df	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Dg	246/269 (91%)	239 (97%)	7 (3%)	38	60
5	Dh	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Di	246/269 (91%)	239 (97%)	7 (3%)	38	60
5	Dj	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Dk	246/269 (91%)	239 (97%)	7 (3%)	38	60
5	Dl	246/269 (91%)	239 (97%)	7 (3%)	38	60
5	Dm	246/269 (91%)	239 (97%)	7 (3%)	38	60
5	Dn	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Do	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Dp	246/269 (91%)	239 (97%)	7 (3%)	38	60
5	Dq	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Dr	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Ds	246/269 (91%)	239 (97%)	7 (3%)	38	60
5	Dt	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Du	246/269 (91%)	240 (98%)	6 (2%)	43	63
5	Dv	246/269 (91%)	239 (97%)	7 (3%)	38	60
5	Dw	246/269 (91%)	239 (97%)	7 (3%)	38	60
6	Dx	299/303 (99%)	298 (100%)	1 (0%)	86	83
6	Dy	299/303 (99%)	294 (98%)	5 (2%)	53	69

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	Dz	299/303 (99%)	297 (99%)	2 (1%)	76	78
6	Ea	299/303 (99%)	296 (99%)	3 (1%)	68	75
6	Eb	299/303 (99%)	294 (98%)	5 (2%)	53	69
6	Ec	299/303 (99%)	297 (99%)	2 (1%)	76	78
6	Ed	299/303 (99%)	295 (99%)	4 (1%)	61	72
6	Ee	299/303 (99%)	297 (99%)	2 (1%)	76	78
6	Ef	299/303 (99%)	293 (98%)	6 (2%)	48	66
6	Eg	299/303 (99%)	296 (99%)	3 (1%)	68	75
6	Eh	299/303 (99%)	295 (99%)	4 (1%)	61	72
6	Ei	299/303 (99%)	296 (99%)	3 (1%)	68	75
6	Ej	299/303 (99%)	296 (99%)	3 (1%)	68	75
6	Ek	299/303 (99%)	297 (99%)	2 (1%)	76	78
6	El	299/303 (99%)	293 (98%)	6 (2%)	48	66
6	Em	299/303 (99%)	296 (99%)	3 (1%)	68	75
6	En	299/303 (99%)	297 (99%)	2 (1%)	76	78
6	Eo	299/303 (99%)	295 (99%)	4 (1%)	61	72
6	Ep	299/303 (99%)	296 (99%)	3 (1%)	68	75
6	Eq	299/303 (99%)	298 (100%)	1 (0%)	86	83
6	Er	299/303 (99%)	295 (99%)	4 (1%)	61	72
6	Es	299/303 (99%)	295 (99%)	4 (1%)	61	72
6	Et	299/303 (99%)	296 (99%)	3 (1%)	68	75
6	Eu	299/303 (99%)	296 (99%)	3 (1%)	68	75
6	Ev	299/303 (99%)	294 (98%)	5 (2%)	53	69
6	Ew	299/303 (99%)	297 (99%)	2 (1%)	76	78
7	Ex	231/243 (95%)	223 (96%)	8 (4%)	32	57
7	Ey	229/243 (94%)	226 (99%)	3 (1%)	61	72
7	Ez	231/243 (95%)	224 (97%)	7 (3%)	36	59
7	Fa	229/243 (94%)	225 (98%)	4 (2%)	53	69
7	Fb	231/243 (95%)	225 (97%)	6 (3%)	40	62
7	Fc	229/243 (94%)	225 (98%)	4 (2%)	53	69
7	Fd	231/243 (95%)	224 (97%)	7 (3%)	36	59

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	Fe	229/243 (94%)	225 (98%)	4 (2%)	53	69
7	Ff	231/243 (95%)	224 (97%)	7 (3%)	36	59
7	Fg	229/243 (94%)	227 (99%)	2 (1%)	70	76
7	Fh	231/243 (95%)	224 (97%)	7 (3%)	36	59
7	Fi	229/243 (94%)	226 (99%)	3 (1%)	61	72
7	Fj	231/243 (95%)	224 (97%)	7 (3%)	36	59
7	Fk	229/243 (94%)	225 (98%)	4 (2%)	53	69
7	Fl	231/243 (95%)	225 (97%)	6 (3%)	40	62
7	Fm	229/243 (94%)	226 (99%)	3 (1%)	61	72
7	Fn	231/243 (95%)	224 (97%)	7 (3%)	36	59
7	Fo	229/243 (94%)	226 (99%)	3 (1%)	61	72
7	Fp	231/243 (95%)	225 (97%)	6 (3%)	40	62
7	Fq	229/243 (94%)	225 (98%)	4 (2%)	53	69
7	Fr	231/243 (95%)	223 (96%)	8 (4%)	32	57
7	Fs	229/243 (94%)	226 (99%)	3 (1%)	61	72
7	Ft	231/243 (95%)	224 (97%)	7 (3%)	36	59
7	Fu	229/243 (94%)	227 (99%)	2 (1%)	70	76
7	Fv	231/243 (95%)	223 (96%)	8 (4%)	32	57
7	Fw	229/243 (94%)	227 (99%)	2 (1%)	70	76
8	Fx	149/154 (97%)	142 (95%)	7 (5%)	23	50
8	Fy	154/154 (100%)	149 (97%)	5 (3%)	34	58
8	Fz	149/154 (97%)	141 (95%)	8 (5%)	20	47
8	Ga	154/154 (100%)	148 (96%)	6 (4%)	28	54
8	Gb	149/154 (97%)	142 (95%)	7 (5%)	23	50
8	Gc	154/154 (100%)	149 (97%)	5 (3%)	34	58
8	Gd	149/154 (97%)	142 (95%)	7 (5%)	23	50
8	Ge	154/154 (100%)	148 (96%)	6 (4%)	28	54
8	Gf	149/154 (97%)	142 (95%)	7 (5%)	23	50
8	Gg	154/154 (100%)	149 (97%)	5 (3%)	34	58
8	Gh	149/154 (97%)	142 (95%)	7 (5%)	23	50
8	Gi	154/154 (100%)	148 (96%)	6 (4%)	28	54

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	Gj	149/154 (97%)	143 (96%)	6 (4%)	28	54
8	Gk	154/154 (100%)	149 (97%)	5 (3%)	34	58
8	Gl	149/154 (97%)	144 (97%)	5 (3%)	32	57
8	Gm	154/154 (100%)	149 (97%)	5 (3%)	34	58
8	Gn	149/154 (97%)	142 (95%)	7 (5%)	23	50
8	Go	154/154 (100%)	149 (97%)	5 (3%)	34	58
8	Gp	149/154 (97%)	142 (95%)	7 (5%)	23	50
8	Gq	154/154 (100%)	149 (97%)	5 (3%)	34	58
8	Gr	149/154 (97%)	143 (96%)	6 (4%)	28	54
8	Gs	154/154 (100%)	149 (97%)	5 (3%)	34	58
8	Gt	149/154 (97%)	143 (96%)	6 (4%)	28	54
8	Gu	154/154 (100%)	148 (96%)	6 (4%)	28	54
8	Gv	149/154 (97%)	143 (96%)	6 (4%)	28	54
8	Gw	154/154 (100%)	148 (96%)	6 (4%)	28	54
9	Gx	12/12 (100%)	12 (100%)	0	100	100
9	Gy	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Gz	12/12 (100%)	12 (100%)	0	100	100
9	Ha	12/12 (100%)	12 (100%)	0	100	100
9	Hb	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Hc	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Hd	12/12 (100%)	12 (100%)	0	100	100
9	He	12/12 (100%)	12 (100%)	0	100	100
9	Hf	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Hg	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Hh	12/12 (100%)	12 (100%)	0	100	100
9	Hi	12/12 (100%)	12 (100%)	0	100	100
9	Hj	12/12 (100%)	12 (100%)	0	100	100
9	Hk	12/12 (100%)	12 (100%)	0	100	100
9	Hl	12/12 (100%)	12 (100%)	0	100	100
9	Hm	12/12 (100%)	12 (100%)	0	100	100
9	Hn	12/12 (100%)	12 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	Ho	12/12 (100%)	12 (100%)	0	100	100
9	Hp	12/12 (100%)	12 (100%)	0	100	100
9	Hq	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Hr	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Hs	12/12 (100%)	12 (100%)	0	100	100
9	Ht	12/12 (100%)	12 (100%)	0	100	100
9	Hu	12/12 (100%)	12 (100%)	0	100	100
9	Hv	12/12 (100%)	12 (100%)	0	100	100
9	Hw	12/12 (100%)	12 (100%)	0	100	100
9	Hx	12/12 (100%)	12 (100%)	0	100	100
9	Hy	12/12 (100%)	12 (100%)	0	100	100
9	Hz	12/12 (100%)	12 (100%)	0	100	100
9	Ia	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Ib	12/12 (100%)	12 (100%)	0	100	100
9	Ic	12/12 (100%)	12 (100%)	0	100	100
9	Id	12/12 (100%)	12 (100%)	0	100	100
9	Ie	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	If	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Ig	12/12 (100%)	12 (100%)	0	100	100
9	Ih	12/12 (100%)	12 (100%)	0	100	100
9	Ii	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Ij	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Ik	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Il	12/12 (100%)	12 (100%)	0	100	100
9	Im	12/12 (100%)	12 (100%)	0	100	100
9	In	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Io	12/12 (100%)	12 (100%)	0	100	100
9	Ip	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Iq	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Ir	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Is	12/12 (100%)	11 (92%)	1 (8%)	10	35

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	It	12/12 (100%)	12 (100%)	0	100	100
9	Iu	12/12 (100%)	12 (100%)	0	100	100
9	Iv	12/12 (100%)	11 (92%)	1 (8%)	10	35
9	Iw	12/12 (100%)	12 (100%)	0	100	100
10	Ix	133/133 (100%)	124 (93%)	9 (7%)	14	42
10	Iy	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Iz	133/133 (100%)	124 (93%)	9 (7%)	14	42
10	Ja	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jb	133/133 (100%)	124 (93%)	9 (7%)	14	42
10	Jc	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jd	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Je	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jf	133/133 (100%)	124 (93%)	9 (7%)	14	42
10	Jg	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jh	133/133 (100%)	124 (93%)	9 (7%)	14	42
10	Ji	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jj	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jk	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jl	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jm	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jn	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jo	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jp	133/133 (100%)	124 (93%)	9 (7%)	14	42
10	Jq	133/133 (100%)	124 (93%)	9 (7%)	14	42
10	Jr	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Js	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jt	133/133 (100%)	124 (93%)	9 (7%)	14	42
10	Ju	133/133 (100%)	125 (94%)	8 (6%)	17	45
10	Jv	133/133 (100%)	124 (93%)	9 (7%)	14	42
10	Jw	133/133 (100%)	125 (94%)	8 (6%)	17	45
11	Jx	84/85 (99%)	79 (94%)	5 (6%)	17	45

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
11	Jy	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Jz	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Ka	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kb	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kc	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kd	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Ke	84/85 (99%)	79 (94%)	5 (6%)	17	45
11	Kf	84/85 (99%)	81 (96%)	3 (4%)	31	56
11	Kg	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kh	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Ki	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kj	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kk	84/85 (99%)	79 (94%)	5 (6%)	17	45
11	Kl	84/85 (99%)	79 (94%)	5 (6%)	17	45
11	Km	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kn	84/85 (99%)	79 (94%)	5 (6%)	17	45
11	Ko	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kp	84/85 (99%)	81 (96%)	3 (4%)	31	56
11	Kq	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kr	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Ks	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kt	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Ku	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kv	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kw	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kx	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Ky	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Kz	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	La	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lb	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lc	84/85 (99%)	80 (95%)	4 (5%)	23	50

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
11	Ld	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Le	84/85 (99%)	81 (96%)	3 (4%)	31	56
11	Lf	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lg	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lh	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Li	84/85 (99%)	82 (98%)	2 (2%)	43	63
11	Lj	84/85 (99%)	79 (94%)	5 (6%)	17	45
11	Lk	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Ll	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lm	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Ln	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lo	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lp	84/85 (99%)	81 (96%)	3 (4%)	31	56
11	Lq	84/85 (99%)	79 (94%)	5 (6%)	17	45
11	Lr	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Ls	84/85 (99%)	81 (96%)	3 (4%)	31	56
11	Lt	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lu	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lv	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lw	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lx	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Ly	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Lz	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Ma	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Mb	84/85 (99%)	80 (95%)	4 (5%)	23	50
11	Mc	84/85 (99%)	80 (95%)	4 (5%)	23	50
12	Md	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Me	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mf	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mg	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mh	165/169 (98%)	161 (98%)	4 (2%)	43	63

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	Mi	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mj	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mk	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Ml	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mm	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mn	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mo	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mp	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mq	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mr	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Ms	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mt	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mu	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mv	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mw	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mx	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	My	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Mz	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Na	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nb	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nc	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nd	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Ne	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nf	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Ng	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nh	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Ni	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nj	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nk	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nl	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nm	165/169 (98%)	161 (98%)	4 (2%)	43	63

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	Nn	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	No	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Np	165/169 (98%)	160 (97%)	5 (3%)	36	59
12	Nq	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nr	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Ns	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nt	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nu	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nv	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nw	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nx	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Ny	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Nz	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Oa	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Ob	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Oc	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Od	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Oe	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Of	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Og	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Oh	165/169 (98%)	161 (98%)	4 (2%)	43	63
12	Oi	165/169 (98%)	161 (98%)	4 (2%)	43	63
13	Oj	126/126 (100%)	126 (100%)	0	100	100
13	Ok	126/126 (100%)	124 (98%)	2 (2%)	55	69
13	Ol	126/126 (100%)	123 (98%)	3 (2%)	43	63
13	Om	126/126 (100%)	123 (98%)	3 (2%)	43	63
13	On	126/126 (100%)	121 (96%)	5 (4%)	28	54
13	Oo	126/126 (100%)	125 (99%)	1 (1%)	73	77
13	Op	126/126 (100%)	124 (98%)	2 (2%)	55	69
13	Oq	126/126 (100%)	122 (97%)	4 (3%)	34	58
13	Or	126/126 (100%)	126 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	Os	126/126 (100%)	123 (98%)	3 (2%)	43	63
13	Ot	126/126 (100%)	122 (97%)	4 (3%)	34	58
13	Ou	126/126 (100%)	123 (98%)	3 (2%)	43	63
13	Ov	126/126 (100%)	121 (96%)	5 (4%)	28	54
13	Ow	126/126 (100%)	125 (99%)	1 (1%)	73	77
13	Ox	126/126 (100%)	125 (99%)	1 (1%)	73	77
13	Oy	126/126 (100%)	123 (98%)	3 (2%)	43	63
13	Oz	126/126 (100%)	120 (95%)	6 (5%)	23	50
13	Pa	126/126 (100%)	121 (96%)	5 (4%)	28	54
13	Pb	126/126 (100%)	122 (97%)	4 (3%)	34	58
13	Pc	126/126 (100%)	120 (95%)	6 (5%)	23	50
13	Pd	126/126 (100%)	123 (98%)	3 (2%)	43	63
13	Pe	126/126 (100%)	123 (98%)	3 (2%)	43	63
13	Pf	126/126 (100%)	121 (96%)	5 (4%)	28	54
13	Pg	126/126 (100%)	124 (98%)	2 (2%)	55	69
13	Ph	126/126 (100%)	124 (98%)	2 (2%)	55	69
13	Pi	126/126 (100%)	123 (98%)	3 (2%)	43	63
13	Pj	126/126 (100%)	125 (99%)	1 (1%)	73	77
13	Pk	126/126 (100%)	123 (98%)	3 (2%)	43	63
13	Pl	126/126 (100%)	125 (99%)	1 (1%)	73	77
13	Pm	126/126 (100%)	123 (98%)	3 (2%)	43	63
13	Pn	126/126 (100%)	122 (97%)	4 (3%)	34	58
13	Po	126/126 (100%)	121 (96%)	5 (4%)	28	54
13	Pp	126/126 (100%)	119 (94%)	7 (6%)	19	47
13	Pq	126/126 (100%)	125 (99%)	1 (1%)	73	77
All	All	62200/66127 (94%)	60581 (97%)	1619 (3%)	41	62

All (1619) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	Aa	42	GLU
1	Aa	75	VAL
1	Ab	2	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Ab	74	VAL
1	Ab	86	VAL
1	Ab	138	GLN
1	Ab	151	THR
1	Ac	26	LEU
1	Ac	62	LEU
1	Ac	67	MET
1	Ac	75	VAL
1	Ac	231	LEU
1	Ad	74	VAL
1	Ad	150	ILE
1	Ad	206	VAL
1	Ad	220	LEU
1	Ae	26	LEU
1	Ae	48	ASN
1	Af	26	LEU
1	Af	86	VAL
1	Af	220	LEU
1	Ag	22	ILE
1	Ag	26	LEU
1	Ag	62	LEU
1	Ah	75	VAL
1	Ah	86	VAL
1	Ah	143	ILE
1	Ah	152	ILE
1	Ah	170	VAL
1	Ah	185	LEU
1	Ai	166	GLN
1	Aj	206	VAL
1	Aj	230	GLU
1	Ak	26	LEU
1	Ak	104	GLN
1	Ak	165	GLN
1	Ak	233	ASN
1	Al	26	LEU
1	Al	40	VAL
1	Al	58	GLN
1	Al	140	GLU
1	Al	206	VAL
1	Am	262	LEU
1	An	26	LEU
1	An	86	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	An	121	THR
1	An	150	ILE
1	An	242	GLU
1	Ao	26	LEU
1	Ap	26	LEU
1	Ap	121	THR
1	Ap	170	VAL
1	Aq	26	LEU
1	Aq	86	VAL
1	Ar	7	VAL
1	Ar	12	LEU
1	Ar	85	ASN
1	Ar	86	VAL
1	As	166	GLN
1	As	206	VAL
1	At	26	LEU
1	At	68	LEU
1	At	77	THR
1	At	138	GLN
1	At	206	VAL
1	Au	26	LEU
1	Au	62	LEU
1	Au	89	THR
1	Au	150	ILE
1	Av	26	LEU
1	Av	32	ILE
1	Av	44	LEU
1	Av	138	GLN
1	Av	220	LEU
1	Av	227	VAL
1	Aw	13	ASP
1	Aw	26	LEU
1	Aw	137	LEU
1	Aw	143	ILE
1	Aw	171	LEU
1	Ax	2	GLN
1	Ax	75	VAL
1	Ax	97	ILE
1	Ax	225	VAL
1	Ax	261	GLN
1	Ay	170	VAL
1	Az	26	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Az	80	VAL
1	Az	128	ILE
1	Az	255	MET
2	Ba	72	ILE
2	Ba	133	VAL
1	Bb	26	LEU
1	Bb	105	ILE
1	Bb	262	LEU
2	Bc	121	VAL
2	Bc	146	ILE
2	Bc	218	LEU
2	Bd	72	ILE
2	Bd	81	THR
2	Bd	146	ILE
2	Bd	181	LEU
3	Be	40	ASP
3	Be	406	LEU
3	Bf	58	VAL
3	Bf	73	ILE
3	Bf	117	MET
3	Bg	368	THR
3	Bg	426	LEU
3	Bh	4	VAL
3	Bh	58	VAL
3	Bh	59	GLN
3	Bh	99	GLN
3	Bh	117	MET
3	Bh	130	VAL
3	Bi	42	TYR
3	Bi	346	VAL
3	Bj	147	ILE
3	Bj	342	THR
3	Bj	433	ILE
3	Bk	73	ILE
3	Bk	97	VAL
3	Bl	42	TYR
3	Bl	58	VAL
3	Bl	96	LEU
3	Bm	17	ASN
3	Bm	53	THR
3	Bm	63	VAL
3	Bm	95	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	Bm	97	VAL
3	Bm	147	ILE
3	Bm	323	ILE
3	Bm	405	ASP
3	Bn	147	ILE
3	Bn	426	LEU
3	Bo	51	LYS
3	Bo	58	VAL
3	Bo	97	VAL
3	Bp	4	VAL
3	Bp	58	VAL
3	Bp	97	VAL
3	Bp	143	LYS
3	Bq	16	LEU
3	Bq	40	ASP
3	Bq	46	LEU
3	Bq	63	VAL
3	Bs	65	GLN
3	Bs	346	VAL
3	Bs	426	LEU
3	Bt	16	LEU
3	Bt	48	THR
3	Bt	73	ILE
3	Bu	9	LEU
3	Bu	58	VAL
2	Bv	26	LEU
2	Bv	106	ARG
2	Bv	166	LEU
2	Bv	224	GLN
2	Bw	71	VAL
2	Bw	72	ILE
2	Bw	146	ILE
4	Bx	60	VAL
4	Bx	112	ASN
4	Bx	145	ILE
4	Bx	176	ILE
4	By	60	VAL
4	By	112	ASN
4	By	145	ILE
4	By	176	ILE
4	By	200	ASN
4	Bz	60	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	Bz	112	ASN
4	Bz	145	ILE
4	Bz	200	ASN
4	Ca	60	VAL
4	Ca	112	ASN
4	Ca	145	ILE
4	Ca	176	ILE
4	Ca	200	ASN
4	Cb	60	VAL
4	Cb	112	ASN
4	Cb	145	ILE
4	Cb	200	ASN
4	Cc	60	VAL
4	Cc	112	ASN
4	Cc	145	ILE
4	Cc	176	ILE
4	Cc	200	ASN
4	Cd	112	ASN
4	Cd	145	ILE
4	Cd	176	ILE
4	Cd	200	ASN
4	Ce	60	VAL
4	Ce	112	ASN
4	Ce	145	ILE
4	Ce	176	ILE
4	Ce	200	ASN
4	Cf	112	ASN
4	Cf	145	ILE
4	Cf	176	ILE
4	Cf	200	ASN
4	Cg	60	VAL
4	Cg	112	ASN
4	Cg	145	ILE
4	Cg	176	ILE
4	Cg	200	ASN
4	Ch	60	VAL
4	Ch	112	ASN
4	Ch	145	ILE
4	Ch	176	ILE
4	Ch	200	ASN
4	Ci	112	ASN
4	Ci	145	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	Ci	176	ILE
4	Ci	200	ASN
4	Cj	112	ASN
4	Cj	145	ILE
4	Cj	200	ASN
4	Ck	112	ASN
4	Ck	145	ILE
4	Ck	176	ILE
4	Ck	200	ASN
4	Cl	112	ASN
4	Cl	145	ILE
4	Cl	176	ILE
4	Cl	200	ASN
4	Cm	60	VAL
4	Cm	112	ASN
4	Cm	145	ILE
4	Cm	200	ASN
4	Cn	60	VAL
4	Cn	112	ASN
4	Cn	145	ILE
4	Cn	176	ILE
4	Cn	200	ASN
4	Co	60	VAL
4	Co	112	ASN
4	Co	145	ILE
4	Co	176	ILE
4	Co	200	ASN
4	Cp	60	VAL
4	Cp	112	ASN
4	Cp	145	ILE
4	Cp	176	ILE
4	Cp	200	ASN
4	Cq	60	VAL
4	Cq	112	ASN
4	Cq	145	ILE
4	Cq	176	ILE
4	Cq	200	ASN
4	Cr	112	ASN
4	Cr	145	ILE
4	Cr	176	ILE
4	Cr	200	ASN
4	Cs	112	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	Cs	145	ILE
4	Cs	200	ASN
4	Ct	112	ASN
4	Ct	145	ILE
4	Ct	200	ASN
4	Cu	60	VAL
4	Cu	112	ASN
4	Cu	145	ILE
4	Cu	200	ASN
4	Cv	60	VAL
4	Cv	112	ASN
4	Cv	145	ILE
4	Cv	176	ILE
4	Cv	200	ASN
4	Cw	60	VAL
4	Cw	112	ASN
4	Cw	145	ILE
4	Cw	176	ILE
4	Cw	200	ASN
5	Cx	145	THR
5	Cx	233	LEU
5	Cx	253	ASN
5	Cx	256	THR
5	Cx	258	THR
5	Cx	322	VAL
5	Cy	145	THR
5	Cy	233	LEU
5	Cy	253	ASN
5	Cy	256	THR
5	Cy	258	THR
5	Cy	322	VAL
5	Cz	145	THR
5	Cz	233	LEU
5	Cz	253	ASN
5	Cz	256	THR
5	Cz	258	THR
5	Cz	322	VAL
5	Da	145	THR
5	Da	233	LEU
5	Da	253	ASN
5	Da	256	THR
5	Da	258	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	Da	273	THR
5	Da	322	VAL
5	Db	145	THR
5	Db	233	LEU
5	Db	253	ASN
5	Db	256	THR
5	Db	258	THR
5	Db	322	VAL
5	Dc	145	THR
5	Dc	233	LEU
5	Dc	253	ASN
5	Dc	256	THR
5	Dc	258	THR
5	Dc	322	VAL
5	Dd	145	THR
5	Dd	233	LEU
5	Dd	253	ASN
5	Dd	256	THR
5	Dd	258	THR
5	Dd	322	VAL
5	De	145	THR
5	De	233	LEU
5	De	253	ASN
5	De	256	THR
5	De	258	THR
5	De	273	THR
5	De	322	VAL
5	Df	145	THR
5	Df	233	LEU
5	Df	253	ASN
5	Df	256	THR
5	Df	258	THR
5	Df	322	VAL
5	Dg	145	THR
5	Dg	233	LEU
5	Dg	253	ASN
5	Dg	256	THR
5	Dg	258	THR
5	Dg	273	THR
5	Dg	322	VAL
5	Dh	145	THR
5	Dh	233	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	Dh	253	ASN
5	Dh	256	THR
5	Dh	258	THR
5	Dh	322	VAL
5	Di	145	THR
5	Di	233	LEU
5	Di	253	ASN
5	Di	256	THR
5	Di	258	THR
5	Di	273	THR
5	Di	322	VAL
5	Dj	145	THR
5	Dj	233	LEU
5	Dj	253	ASN
5	Dj	256	THR
5	Dj	258	THR
5	Dj	322	VAL
5	Dk	145	THR
5	Dk	233	LEU
5	Dk	253	ASN
5	Dk	256	THR
5	Dk	258	THR
5	Dk	273	THR
5	Dk	322	VAL
5	Dl	145	THR
5	Dl	233	LEU
5	Dl	253	ASN
5	Dl	256	THR
5	Dl	258	THR
5	Dl	273	THR
5	Dl	322	VAL
5	Dm	145	THR
5	Dm	233	LEU
5	Dm	253	ASN
5	Dm	256	THR
5	Dm	258	THR
5	Dm	273	THR
5	Dm	322	VAL
5	Dn	145	THR
5	Dn	233	LEU
5	Dn	253	ASN
5	Dn	256	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	Dn	258	THR
5	Dn	322	VAL
5	Do	145	THR
5	Do	233	LEU
5	Do	253	ASN
5	Do	256	THR
5	Do	258	THR
5	Do	322	VAL
5	Dp	145	THR
5	Dp	233	LEU
5	Dp	253	ASN
5	Dp	256	THR
5	Dp	258	THR
5	Dp	273	THR
5	Dp	322	VAL
5	Dq	145	THR
5	Dq	233	LEU
5	Dq	253	ASN
5	Dq	256	THR
5	Dq	258	THR
5	Dq	322	VAL
5	Dr	145	THR
5	Dr	233	LEU
5	Dr	253	ASN
5	Dr	256	THR
5	Dr	258	THR
5	Dr	322	VAL
5	Ds	145	THR
5	Ds	233	LEU
5	Ds	253	ASN
5	Ds	256	THR
5	Ds	258	THR
5	Ds	273	THR
5	Ds	322	VAL
5	Dt	145	THR
5	Dt	233	LEU
5	Dt	253	ASN
5	Dt	256	THR
5	Dt	258	THR
5	Dt	322	VAL
5	Du	145	THR
5	Du	233	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	Du	253	ASN
5	Du	256	THR
5	Du	258	THR
5	Du	322	VAL
5	Dv	145	THR
5	Dv	233	LEU
5	Dv	253	ASN
5	Dv	256	THR
5	Dv	258	THR
5	Dv	273	THR
5	Dv	322	VAL
5	Dw	145	THR
5	Dw	233	LEU
5	Dw	253	ASN
5	Dw	256	THR
5	Dw	258	THR
5	Dw	273	THR
5	Dw	322	VAL
6	Dx	35	VAL
6	Dy	102	VAL
6	Dy	107	ASP
6	Dy	327	ILE
6	Dy	362	GLU
6	Dy	363	LEU
6	Dz	35	VAL
6	Dz	327	ILE
6	Ea	35	VAL
6	Ea	327	ILE
6	Ea	353	GLU
6	Eb	102	VAL
6	Eb	154	ASN
6	Eb	286	SER
6	Eb	327	ILE
6	Eb	353	GLU
6	Ec	87	TYR
6	Ec	286	SER
6	Ed	35	VAL
6	Ed	87	TYR
6	Ed	327	ILE
6	Ed	353	GLU
6	Ee	154	ASN
6	Ee	327	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	Ef	89	LEU
6	Ef	154	ASN
6	Ef	237	THR
6	Ef	286	SER
6	Ef	327	ILE
6	Ef	353	GLU
6	Eg	154	ASN
6	Eg	243	VAL
6	Eg	353	GLU
6	Eh	89	LEU
6	Eh	237	THR
6	Eh	327	ILE
6	Eh	353	GLU
6	Ei	89	LEU
6	Ei	208	GLN
6	Ei	327	ILE
6	Ej	35	VAL
6	Ej	327	ILE
6	Ej	353	GLU
6	Ek	286	SER
6	Ek	327	ILE
6	El	35	VAL
6	El	154	ASN
6	El	237	THR
6	El	286	SER
6	El	327	ILE
6	El	353	GLU
6	Em	107	ASP
6	Em	327	ILE
6	Em	375	LYS
6	En	35	VAL
6	En	327	ILE
6	Eo	35	VAL
6	Eo	237	THR
6	Eo	327	ILE
6	Eo	328	ASP
6	Ep	86	ARG
6	Ep	237	THR
6	Ep	327	ILE
6	Eq	286	SER
6	Er	35	VAL
6	Er	237	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	Er	286	SER
6	Er	327	ILE
6	Es	35	VAL
6	Es	87	TYR
6	Es	320	LEU
6	Es	327	ILE
6	Et	237	THR
6	Et	286	SER
6	Et	327	ILE
6	Eu	327	ILE
6	Eu	353	GLU
6	Eu	363	LEU
6	Ev	107	ASP
6	Ev	237	THR
6	Ev	286	SER
6	Ev	327	ILE
6	Ev	353	GLU
6	Ew	286	SER
6	Ew	327	ILE
7	Ex	89	VAL
7	Ex	106	ASN
7	Ex	112	GLN
7	Ex	117	ILE
7	Ex	180	ILE
7	Ex	250	LYS
7	Ex	264	TYR
7	Ex	266	LYS
7	Ey	25	VAL
7	Ey	89	VAL
7	Ey	220	LEU
7	Ez	89	VAL
7	Ez	106	ASN
7	Ez	112	GLN
7	Ez	180	ILE
7	Ez	250	LYS
7	Ez	264	TYR
7	Ez	266	LYS
7	Fa	25	VAL
7	Fa	68	ILE
7	Fa	89	VAL
7	Fa	220	LEU
7	Fb	106	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	Fb	112	GLN
7	Fb	180	ILE
7	Fb	250	LYS
7	Fb	264	TYR
7	Fb	266	LYS
7	Fc	25	VAL
7	Fc	68	ILE
7	Fc	89	VAL
7	Fc	220	LEU
7	Fd	89	VAL
7	Fd	106	ASN
7	Fd	112	GLN
7	Fd	180	ILE
7	Fd	250	LYS
7	Fd	264	TYR
7	Fd	266	LYS
7	Fe	25	VAL
7	Fe	68	ILE
7	Fe	89	VAL
7	Fe	220	LEU
7	Ff	89	VAL
7	Ff	106	ASN
7	Ff	112	GLN
7	Ff	180	ILE
7	Ff	250	LYS
7	Ff	264	TYR
7	Ff	266	LYS
7	Fg	25	VAL
7	Fg	220	LEU
7	Fh	89	VAL
7	Fh	106	ASN
7	Fh	112	GLN
7	Fh	180	ILE
7	Fh	250	LYS
7	Fh	264	TYR
7	Fh	266	LYS
7	Fi	25	VAL
7	Fi	89	VAL
7	Fi	220	LEU
7	Fj	89	VAL
7	Fj	106	ASN
7	Fj	112	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	Fj	180	ILE
7	Fj	250	LYS
7	Fj	264	TYR
7	Fj	266	LYS
7	Fk	25	VAL
7	Fk	68	ILE
7	Fk	89	VAL
7	Fk	220	LEU
7	Fl	106	ASN
7	Fl	112	GLN
7	Fl	180	ILE
7	Fl	250	LYS
7	Fl	264	TYR
7	Fl	266	LYS
7	Fm	25	VAL
7	Fm	89	VAL
7	Fm	220	LEU
7	Fn	89	VAL
7	Fn	106	ASN
7	Fn	112	GLN
7	Fn	180	ILE
7	Fn	250	LYS
7	Fn	264	TYR
7	Fn	266	LYS
7	Fo	25	VAL
7	Fo	89	VAL
7	Fo	220	LEU
7	Fp	89	VAL
7	Fp	106	ASN
7	Fp	112	GLN
7	Fp	180	ILE
7	Fp	250	LYS
7	Fp	266	LYS
7	Fq	25	VAL
7	Fq	68	ILE
7	Fq	89	VAL
7	Fq	220	LEU
7	Fr	89	VAL
7	Fr	106	ASN
7	Fr	112	GLN
7	Fr	117	ILE
7	Fr	149	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	Fr	250	LYS
7	Fr	264	TYR
7	Fr	266	LYS
7	Fs	25	VAL
7	Fs	89	VAL
7	Fs	220	LEU
7	Ft	89	VAL
7	Ft	106	ASN
7	Ft	112	GLN
7	Ft	180	ILE
7	Ft	250	LYS
7	Ft	264	TYR
7	Ft	266	LYS
7	Fu	25	VAL
7	Fu	220	LEU
7	Fv	25	VAL
7	Fv	106	ASN
7	Fv	112	GLN
7	Fv	117	ILE
7	Fv	180	ILE
7	Fv	250	LYS
7	Fv	264	TYR
7	Fv	266	LYS
7	Fw	25	VAL
7	Fw	220	LEU
8	Fx	32	ILE
8	Fx	38	LEU
8	Fx	71	LEU
8	Fx	92	VAL
8	Fx	107	LEU
8	Fx	124	VAL
8	Fx	143	ASN
8	Fy	48	LEU
8	Fy	90	GLN
8	Fy	91	ASP
8	Fy	94	LEU
8	Fy	107	LEU
8	Fz	32	ILE
8	Fz	38	LEU
8	Fz	71	LEU
8	Fz	92	VAL
8	Fz	107	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	Fz	124	VAL
8	Fz	188	LEU
8	Fz	192	LEU
8	Ga	48	LEU
8	Ga	90	GLN
8	Ga	91	ASP
8	Ga	94	LEU
8	Ga	107	LEU
8	Ga	150	LEU
8	Gb	32	ILE
8	Gb	38	LEU
8	Gb	71	LEU
8	Gb	107	LEU
8	Gb	124	VAL
8	Gb	188	LEU
8	Gb	192	LEU
8	Gc	48	LEU
8	Gc	91	ASP
8	Gc	94	LEU
8	Gc	107	LEU
8	Gc	150	LEU
8	Gd	32	ILE
8	Gd	38	LEU
8	Gd	71	LEU
8	Gd	92	VAL
8	Gd	107	LEU
8	Gd	124	VAL
8	Gd	192	LEU
8	Ge	48	LEU
8	Ge	90	GLN
8	Ge	91	ASP
8	Ge	94	LEU
8	Ge	107	LEU
8	Ge	150	LEU
8	Gf	32	ILE
8	Gf	38	LEU
8	Gf	71	LEU
8	Gf	107	LEU
8	Gf	124	VAL
8	Gf	188	LEU
8	Gf	192	LEU
8	Gg	48	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	Gg	91	ASP
8	Gg	94	LEU
8	Gg	107	LEU
8	Gg	150	LEU
8	Gh	32	ILE
8	Gh	38	LEU
8	Gh	71	LEU
8	Gh	107	LEU
8	Gh	124	VAL
8	Gh	188	LEU
8	Gh	192	LEU
8	Gi	48	LEU
8	Gi	90	GLN
8	Gi	91	ASP
8	Gi	94	LEU
8	Gi	107	LEU
8	Gi	150	LEU
8	Gj	32	ILE
8	Gj	38	LEU
8	Gj	71	LEU
8	Gj	92	VAL
8	Gj	107	LEU
8	Gj	124	VAL
8	Gk	48	LEU
8	Gk	91	ASP
8	Gk	94	LEU
8	Gk	107	LEU
8	Gk	150	LEU
8	Gl	38	LEU
8	Gl	71	LEU
8	Gl	107	LEU
8	Gl	124	VAL
8	Gl	192	LEU
8	Gm	48	LEU
8	Gm	91	ASP
8	Gm	94	LEU
8	Gm	107	LEU
8	Gm	150	LEU
8	Gn	32	ILE
8	Gn	38	LEU
8	Gn	71	LEU
8	Gn	92	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	Gn	107	LEU
8	Gn	124	VAL
8	Gn	143	ASN
8	Go	48	LEU
8	Go	91	ASP
8	Go	94	LEU
8	Go	107	LEU
8	Go	150	LEU
8	Gp	32	ILE
8	Gp	38	LEU
8	Gp	71	LEU
8	Gp	92	VAL
8	Gp	107	LEU
8	Gp	124	VAL
8	Gp	192	LEU
8	Gq	48	LEU
8	Gq	91	ASP
8	Gq	94	LEU
8	Gq	107	LEU
8	Gq	150	LEU
8	Gr	38	LEU
8	Gr	71	LEU
8	Gr	107	LEU
8	Gr	124	VAL
8	Gr	188	LEU
8	Gr	192	LEU
8	Gs	48	LEU
8	Gs	91	ASP
8	Gs	94	LEU
8	Gs	107	LEU
8	Gs	150	LEU
8	Gt	32	ILE
8	Gt	38	LEU
8	Gt	71	LEU
8	Gt	107	LEU
8	Gt	124	VAL
8	Gt	192	LEU
8	Gu	48	LEU
8	Gu	90	GLN
8	Gu	91	ASP
8	Gu	94	LEU
8	Gu	107	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	Gu	150	LEU
8	Gv	32	ILE
8	Gv	38	LEU
8	Gv	71	LEU
8	Gv	107	LEU
8	Gv	124	VAL
8	Gv	192	LEU
8	Gw	48	LEU
8	Gw	90	GLN
8	Gw	91	ASP
8	Gw	94	LEU
8	Gw	107	LEU
8	Gw	150	LEU
9	Gy	145	PHE
9	Hb	139	LYS
9	Hc	139	LYS
9	Hf	139	LYS
9	Hg	139	LYS
9	Hq	139	LYS
9	Hr	139	LYS
9	Ia	138	GLU
9	Ie	138	GLU
9	If	138	GLU
9	Ii	138	GLU
9	Ij	138	GLU
9	Ik	141	GLN
9	In	138	GLU
9	Ip	138	GLU
9	Iq	141	GLN
9	Ir	138	GLU
9	Is	138	GLU
9	Iv	138	GLU
10	Ix	168	SER
10	Ix	170	GLU
10	Ix	209	LEU
10	Ix	220	ILE
10	Ix	226	VAL
10	Ix	239	LEU
10	Ix	261	VAL
10	Ix	274	LEU
10	Ix	295	VAL
10	Iy	168	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	Iy	170	GLU
10	Iy	209	LEU
10	Iy	220	ILE
10	Iy	226	VAL
10	Iy	261	VAL
10	Iy	274	LEU
10	Iy	295	VAL
10	Iz	168	SER
10	Iz	170	GLU
10	Iz	209	LEU
10	Iz	220	ILE
10	Iz	226	VAL
10	Iz	239	LEU
10	Iz	261	VAL
10	Iz	274	LEU
10	Iz	295	VAL
10	Ja	168	SER
10	Ja	170	GLU
10	Ja	209	LEU
10	Ja	220	ILE
10	Ja	226	VAL
10	Ja	261	VAL
10	Ja	274	LEU
10	Ja	295	VAL
10	Jb	168	SER
10	Jb	170	GLU
10	Jb	209	LEU
10	Jb	220	ILE
10	Jb	226	VAL
10	Jb	239	LEU
10	Jb	261	VAL
10	Jb	274	LEU
10	Jb	295	VAL
10	Jc	168	SER
10	Jc	170	GLU
10	Jc	209	LEU
10	Jc	220	ILE
10	Jc	226	VAL
10	Jc	261	VAL
10	Jc	274	LEU
10	Jc	295	VAL
10	Jd	168	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	Jd	170	GLU
10	Jd	209	LEU
10	Jd	220	ILE
10	Jd	226	VAL
10	Jd	261	VAL
10	Jd	274	LEU
10	Jd	295	VAL
10	Je	168	SER
10	Je	170	GLU
10	Je	209	LEU
10	Je	220	ILE
10	Je	226	VAL
10	Je	261	VAL
10	Je	274	LEU
10	Je	295	VAL
10	Jf	168	SER
10	Jf	170	GLU
10	Jf	209	LEU
10	Jf	220	ILE
10	Jf	226	VAL
10	Jf	239	LEU
10	Jf	261	VAL
10	Jf	274	LEU
10	Jf	295	VAL
10	Jg	168	SER
10	Jg	170	GLU
10	Jg	209	LEU
10	Jg	220	ILE
10	Jg	226	VAL
10	Jg	261	VAL
10	Jg	274	LEU
10	Jg	295	VAL
10	Jh	168	SER
10	Jh	170	GLU
10	Jh	209	LEU
10	Jh	220	ILE
10	Jh	226	VAL
10	Jh	239	LEU
10	Jh	261	VAL
10	Jh	274	LEU
10	Jh	295	VAL
10	Ji	168	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	Ji	170	GLU
10	Ji	209	LEU
10	Ji	220	ILE
10	Ji	226	VAL
10	Ji	261	VAL
10	Ji	274	LEU
10	Ji	295	VAL
10	Jj	168	SER
10	Jj	170	GLU
10	Jj	209	LEU
10	Jj	220	ILE
10	Jj	226	VAL
10	Jj	261	VAL
10	Jj	274	LEU
10	Jj	295	VAL
10	Jk	168	SER
10	Jk	170	GLU
10	Jk	209	LEU
10	Jk	220	ILE
10	Jk	226	VAL
10	Jk	261	VAL
10	Jk	274	LEU
10	Jk	295	VAL
10	Jl	168	SER
10	Jl	170	GLU
10	Jl	209	LEU
10	Jl	220	ILE
10	Jl	226	VAL
10	Jl	261	VAL
10	Jl	274	LEU
10	Jl	295	VAL
10	Jm	168	SER
10	Jm	170	GLU
10	Jm	209	LEU
10	Jm	220	ILE
10	Jm	226	VAL
10	Jm	261	VAL
10	Jm	274	LEU
10	Jm	295	VAL
10	Jn	168	SER
10	Jn	170	GLU
10	Jn	209	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	Jn	220	ILE
10	Jn	226	VAL
10	Jn	261	VAL
10	Jn	274	LEU
10	Jn	295	VAL
10	Jo	168	SER
10	Jo	170	GLU
10	Jo	209	LEU
10	Jo	220	ILE
10	Jo	226	VAL
10	Jo	261	VAL
10	Jo	274	LEU
10	Jo	295	VAL
10	Jp	168	SER
10	Jp	170	GLU
10	Jp	209	LEU
10	Jp	220	ILE
10	Jp	226	VAL
10	Jp	239	LEU
10	Jp	261	VAL
10	Jp	274	LEU
10	Jp	295	VAL
10	Jq	168	SER
10	Jq	170	GLU
10	Jq	209	LEU
10	Jq	220	ILE
10	Jq	226	VAL
10	Jq	239	LEU
10	Jq	261	VAL
10	Jq	274	LEU
10	Jq	295	VAL
10	Jr	168	SER
10	Jr	170	GLU
10	Jr	209	LEU
10	Jr	220	ILE
10	Jr	226	VAL
10	Jr	261	VAL
10	Jr	274	LEU
10	Jr	295	VAL
10	Js	168	SER
10	Js	170	GLU
10	Js	209	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	Js	220	ILE
10	Js	226	VAL
10	Js	261	VAL
10	Js	274	LEU
10	Js	295	VAL
10	Jt	168	SER
10	Jt	170	GLU
10	Jt	209	LEU
10	Jt	220	ILE
10	Jt	226	VAL
10	Jt	239	LEU
10	Jt	261	VAL
10	Jt	274	LEU
10	Jt	295	VAL
10	Ju	168	SER
10	Ju	170	GLU
10	Ju	209	LEU
10	Ju	220	ILE
10	Ju	226	VAL
10	Ju	261	VAL
10	Ju	274	LEU
10	Ju	295	VAL
10	Jv	168	SER
10	Jv	170	GLU
10	Jv	209	LEU
10	Jv	220	ILE
10	Jv	226	VAL
10	Jv	239	LEU
10	Jv	261	VAL
10	Jv	274	LEU
10	Jv	295	VAL
10	Jw	168	SER
10	Jw	170	GLU
10	Jw	209	LEU
10	Jw	220	ILE
10	Jw	226	VAL
10	Jw	261	VAL
10	Jw	274	LEU
10	Jw	295	VAL
11	Jx	73	ARG
11	Jx	74	ILE
11	Jx	87	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	Jx	97	VAL
11	Jx	119	LEU
11	Jy	74	ILE
11	Jy	87	THR
11	Jy	97	VAL
11	Jy	119	LEU
11	Jz	74	ILE
11	Jz	87	THR
11	Jz	97	VAL
11	Jz	119	LEU
11	Ka	74	ILE
11	Ka	87	THR
11	Ka	97	VAL
11	Ka	119	LEU
11	Kb	74	ILE
11	Kb	87	THR
11	Kb	97	VAL
11	Kb	119	LEU
11	Kc	74	ILE
11	Kc	87	THR
11	Kc	97	VAL
11	Kc	119	LEU
11	Kd	74	ILE
11	Kd	87	THR
11	Kd	97	VAL
11	Kd	119	LEU
11	Ke	73	ARG
11	Ke	74	ILE
11	Ke	87	THR
11	Ke	97	VAL
11	Ke	119	LEU
11	Kf	74	ILE
11	Kf	97	VAL
11	Kf	119	LEU
11	Kg	73	ARG
11	Kg	87	THR
11	Kg	97	VAL
11	Kg	119	LEU
11	Kh	74	ILE
11	Kh	87	THR
11	Kh	97	VAL
11	Kh	119	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	Ki	74	ILE
11	Ki	87	THR
11	Ki	97	VAL
11	Ki	119	LEU
11	Kj	74	ILE
11	Kj	87	THR
11	Kj	97	VAL
11	Kj	119	LEU
11	Kk	74	ILE
11	Kk	87	THR
11	Kk	95	ASP
11	Kk	97	VAL
11	Kk	119	LEU
11	Kl	74	ILE
11	Kl	87	THR
11	Kl	95	ASP
11	Kl	97	VAL
11	Kl	119	LEU
11	Km	74	ILE
11	Km	87	THR
11	Km	97	VAL
11	Km	119	LEU
11	Kn	73	ARG
11	Kn	74	ILE
11	Kn	87	THR
11	Kn	97	VAL
11	Kn	119	LEU
11	Ko	74	ILE
11	Ko	87	THR
11	Ko	97	VAL
11	Ko	119	LEU
11	Kp	74	ILE
11	Kp	97	VAL
11	Kp	119	LEU
11	Kq	74	ILE
11	Kq	87	THR
11	Kq	97	VAL
11	Kq	119	LEU
11	Kr	74	ILE
11	Kr	87	THR
11	Kr	97	VAL
11	Kr	119	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	Ks	74	ILE
11	Ks	87	THR
11	Ks	97	VAL
11	Ks	119	LEU
11	Kt	74	ILE
11	Kt	87	THR
11	Kt	97	VAL
11	Kt	119	LEU
11	Ku	74	ILE
11	Ku	87	THR
11	Ku	97	VAL
11	Ku	119	LEU
11	Kv	74	ILE
11	Kv	87	THR
11	Kv	97	VAL
11	Kv	119	LEU
11	Kw	74	ILE
11	Kw	87	THR
11	Kw	97	VAL
11	Kw	119	LEU
11	Kx	74	ILE
11	Kx	87	THR
11	Kx	97	VAL
11	Kx	119	LEU
11	Ky	74	ILE
11	Ky	87	THR
11	Ky	97	VAL
11	Ky	119	LEU
11	Kz	74	ILE
11	Kz	87	THR
11	Kz	97	VAL
11	Kz	119	LEU
11	La	74	ILE
11	La	87	THR
11	La	97	VAL
11	La	119	LEU
11	Lb	74	ILE
11	Lb	87	THR
11	Lb	97	VAL
11	Lb	119	LEU
11	Lc	74	ILE
11	Lc	87	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	Lc	97	VAL
11	Lc	119	LEU
11	Ld	74	ILE
11	Ld	87	THR
11	Ld	97	VAL
11	Ld	119	LEU
11	Le	74	ILE
11	Le	87	THR
11	Le	119	LEU
11	Lf	74	ILE
11	Lf	87	THR
11	Lf	97	VAL
11	Lf	119	LEU
11	Lg	74	ILE
11	Lg	87	THR
11	Lg	97	VAL
11	Lg	119	LEU
11	Lh	74	ILE
11	Lh	87	THR
11	Lh	97	VAL
11	Lh	119	LEU
11	Li	97	VAL
11	Li	119	LEU
11	Lj	73	ARG
11	Lj	74	ILE
11	Lj	87	THR
11	Lj	97	VAL
11	Lj	119	LEU
11	Lk	74	ILE
11	Lk	87	THR
11	Lk	97	VAL
11	Lk	119	LEU
11	Ll	74	ILE
11	Ll	87	THR
11	Ll	97	VAL
11	Ll	119	LEU
11	Lm	74	ILE
11	Lm	87	THR
11	Lm	97	VAL
11	Lm	119	LEU
11	Ln	74	ILE
11	Ln	87	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	Ln	97	VAL
11	Ln	119	LEU
11	Lo	74	ILE
11	Lo	87	THR
11	Lo	97	VAL
11	Lo	119	LEU
11	Lp	74	ILE
11	Lp	97	VAL
11	Lp	119	LEU
11	Lq	73	ARG
11	Lq	74	ILE
11	Lq	87	THR
11	Lq	97	VAL
11	Lq	119	LEU
11	Lr	74	ILE
11	Lr	87	THR
11	Lr	97	VAL
11	Lr	119	LEU
11	Ls	74	ILE
11	Ls	97	VAL
11	Ls	119	LEU
11	Lt	74	ILE
11	Lt	87	THR
11	Lt	97	VAL
11	Lt	119	LEU
11	Lu	74	ILE
11	Lu	87	THR
11	Lu	97	VAL
11	Lu	119	LEU
11	Lv	74	ILE
11	Lv	87	THR
11	Lv	97	VAL
11	Lv	119	LEU
11	Lw	74	ILE
11	Lw	87	THR
11	Lw	97	VAL
11	Lw	119	LEU
11	Lx	74	ILE
11	Lx	87	THR
11	Lx	97	VAL
11	Lx	119	LEU
11	Ly	74	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	Ly	87	THR
11	Ly	97	VAL
11	Ly	119	LEU
11	Lz	74	ILE
11	Lz	87	THR
11	Lz	97	VAL
11	Lz	119	LEU
11	Ma	74	ILE
11	Ma	87	THR
11	Ma	97	VAL
11	Ma	119	LEU
11	Mb	74	ILE
11	Mb	87	THR
11	Mb	97	VAL
11	Mb	119	LEU
11	Mc	74	ILE
11	Mc	87	THR
11	Mc	97	VAL
11	Mc	119	LEU
12	Md	40	ASN
12	Md	119	THR
12	Md	163	VAL
12	Md	204	VAL
12	Me	40	ASN
12	Me	119	THR
12	Me	163	VAL
12	Me	204	VAL
12	Mf	40	ASN
12	Mf	119	THR
12	Mf	163	VAL
12	Mf	204	VAL
12	Mg	40	ASN
12	Mg	119	THR
12	Mg	163	VAL
12	Mg	204	VAL
12	Mh	40	ASN
12	Mh	119	THR
12	Mh	163	VAL
12	Mh	204	VAL
12	Mi	40	ASN
12	Mi	119	THR
12	Mi	163	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Mi	204	VAL
12	Mj	40	ASN
12	Mj	119	THR
12	Mj	163	VAL
12	Mj	204	VAL
12	Mk	40	ASN
12	Mk	119	THR
12	Mk	163	VAL
12	Mk	204	VAL
12	Ml	40	ASN
12	Ml	119	THR
12	Ml	163	VAL
12	Ml	204	VAL
12	Mm	40	ASN
12	Mm	119	THR
12	Mm	163	VAL
12	Mm	204	VAL
12	Mn	40	ASN
12	Mn	119	THR
12	Mn	163	VAL
12	Mn	204	VAL
12	Mo	40	ASN
12	Mo	119	THR
12	Mo	163	VAL
12	Mo	204	VAL
12	Mp	40	ASN
12	Mp	119	THR
12	Mp	163	VAL
12	Mp	204	VAL
12	Mq	40	ASN
12	Mq	119	THR
12	Mq	163	VAL
12	Mq	204	VAL
12	Mr	40	ASN
12	Mr	119	THR
12	Mr	163	VAL
12	Mr	204	VAL
12	Ms	40	ASN
12	Ms	119	THR
12	Ms	163	VAL
12	Ms	204	VAL
12	Mt	40	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Mt	119	THR
12	Mt	163	VAL
12	Mt	204	VAL
12	Mu	40	ASN
12	Mu	119	THR
12	Mu	163	VAL
12	Mu	204	VAL
12	Mv	40	ASN
12	Mv	119	THR
12	Mv	163	VAL
12	Mv	204	VAL
12	Mw	40	ASN
12	Mw	119	THR
12	Mw	163	VAL
12	Mw	204	VAL
12	Mx	40	ASN
12	Mx	119	THR
12	Mx	163	VAL
12	Mx	204	VAL
12	My	40	ASN
12	My	119	THR
12	My	163	VAL
12	My	204	VAL
12	Mz	40	ASN
12	Mz	119	THR
12	Mz	163	VAL
12	Mz	204	VAL
12	Na	40	ASN
12	Na	119	THR
12	Na	163	VAL
12	Na	204	VAL
12	Nb	40	ASN
12	Nb	119	THR
12	Nb	163	VAL
12	Nb	204	VAL
12	Nc	40	ASN
12	Nc	119	THR
12	Nc	163	VAL
12	Nc	204	VAL
12	Nd	40	ASN
12	Nd	119	THR
12	Nd	163	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Nd	204	VAL
12	Ne	40	ASN
12	Ne	119	THR
12	Ne	163	VAL
12	Ne	204	VAL
12	Nf	40	ASN
12	Nf	119	THR
12	Nf	163	VAL
12	Nf	204	VAL
12	Ng	40	ASN
12	Ng	119	THR
12	Ng	163	VAL
12	Ng	204	VAL
12	Nh	40	ASN
12	Nh	119	THR
12	Nh	163	VAL
12	Nh	204	VAL
12	Ni	40	ASN
12	Ni	119	THR
12	Ni	163	VAL
12	Ni	204	VAL
12	Nj	40	ASN
12	Nj	119	THR
12	Nj	163	VAL
12	Nj	204	VAL
12	Nk	40	ASN
12	Nk	119	THR
12	Nk	163	VAL
12	Nk	204	VAL
12	Nl	40	ASN
12	Nl	119	THR
12	Nl	163	VAL
12	Nl	204	VAL
12	Nm	40	ASN
12	Nm	119	THR
12	Nm	163	VAL
12	Nm	204	VAL
12	Nn	40	ASN
12	Nn	119	THR
12	Nn	163	VAL
12	Nn	204	VAL
12	No	40	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	No	119	THR
12	No	163	VAL
12	No	204	VAL
12	Np	40	ASN
12	Np	119	THR
12	Np	161	VAL
12	Np	163	VAL
12	Np	204	VAL
12	Nq	40	ASN
12	Nq	119	THR
12	Nq	163	VAL
12	Nq	204	VAL
12	Nr	40	ASN
12	Nr	119	THR
12	Nr	163	VAL
12	Nr	204	VAL
12	Ns	40	ASN
12	Ns	119	THR
12	Ns	163	VAL
12	Ns	204	VAL
12	Nt	40	ASN
12	Nt	119	THR
12	Nt	163	VAL
12	Nt	204	VAL
12	Nu	40	ASN
12	Nu	119	THR
12	Nu	163	VAL
12	Nu	204	VAL
12	Nv	40	ASN
12	Nv	119	THR
12	Nv	163	VAL
12	Nv	204	VAL
12	Nw	40	ASN
12	Nw	119	THR
12	Nw	163	VAL
12	Nw	204	VAL
12	Nx	40	ASN
12	Nx	119	THR
12	Nx	163	VAL
12	Nx	204	VAL
12	Ny	40	ASN
12	Ny	119	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Ny	163	VAL
12	Ny	204	VAL
12	Nz	40	ASN
12	Nz	119	THR
12	Nz	163	VAL
12	Nz	204	VAL
12	Oa	40	ASN
12	Oa	119	THR
12	Oa	163	VAL
12	Oa	204	VAL
12	Ob	40	ASN
12	Ob	119	THR
12	Ob	163	VAL
12	Ob	204	VAL
12	Oc	40	ASN
12	Oc	119	THR
12	Oc	163	VAL
12	Oc	204	VAL
12	Od	40	ASN
12	Od	119	THR
12	Od	163	VAL
12	Od	204	VAL
12	Oe	40	ASN
12	Oe	119	THR
12	Oe	163	VAL
12	Oe	204	VAL
12	Of	40	ASN
12	Of	119	THR
12	Of	163	VAL
12	Of	204	VAL
12	Og	40	ASN
12	Og	119	THR
12	Og	163	VAL
12	Og	204	VAL
12	Oh	40	ASN
12	Oh	119	THR
12	Oh	163	VAL
12	Oh	204	VAL
12	Oi	40	ASN
12	Oi	119	THR
12	Oi	163	VAL
12	Oi	204	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	Ok	379	ASP
13	Ok	427	ILE
13	Ol	266	LEU
13	Ol	274	LEU
13	Ol	281	VAL
13	Om	266	LEU
13	Om	380	THR
13	Om	448	LEU
13	On	266	LEU
13	On	294	GLN
13	On	307	THR
13	On	395	GLN
13	On	445	LEU
13	Oo	444	LEU
13	Op	282	LEU
13	Op	401	VAL
13	Oq	266	LEU
13	Oq	282	LEU
13	Oq	283	ILE
13	Oq	445	LEU
13	Os	282	LEU
13	Os	283	ILE
13	Os	448	LEU
13	Ot	264	GLN
13	Ot	266	LEU
13	Ot	283	ILE
13	Ot	307	THR
13	Ou	274	LEU
13	Ou	381	THR
13	Ou	432	ILE
13	Ov	266	LEU
13	Ov	274	LEU
13	Ov	294	GLN
13	Ov	396	THR
13	Ov	448	LEU
13	Ow	283	ILE
13	Ox	266	LEU
13	Oy	396	THR
13	Oy	445	LEU
13	Oy	448	LEU
13	Oz	266	LEU
13	Oz	274	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	Oz	297	ILE
13	Oz	304	VAL
13	Oz	307	THR
13	Oz	396	THR
13	Pa	266	LEU
13	Pa	283	ILE
13	Pa	425	ASN
13	Pa	431	LEU
13	Pa	448	LEU
13	Pb	266	LEU
13	Pb	381	THR
13	Pb	395	GLN
13	Pb	445	LEU
13	Pc	274	LEU
13	Pc	307	THR
13	Pc	381	THR
13	Pc	396	THR
13	Pc	431	LEU
13	Pc	446	ASN
13	Pd	266	LEU
13	Pd	274	LEU
13	Pd	445	LEU
13	Pe	261	ARG
13	Pe	266	LEU
13	Pe	446	ASN
13	Pf	266	LEU
13	Pf	274	LEU
13	Pf	283	ILE
13	Pf	391	VAL
13	Pf	446	ASN
13	Pg	281	VAL
13	Pg	396	THR
13	Ph	307	THR
13	Ph	310	VAL
13	Pi	274	LEU
13	Pi	395	GLN
13	Pi	401	VAL
13	Pj	277	LYS
13	Pk	266	LEU
13	Pk	445	LEU
13	Pk	448	LEU
13	Pl	431	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	Pm	380	THR
13	Pm	396	THR
13	Pm	431	LEU
13	Pn	274	LEU
13	Pn	286	LEU
13	Pn	319	ARG
13	Pn	446	ASN
13	Po	266	LEU
13	Po	274	LEU
13	Po	283	ILE
13	Po	396	THR
13	Po	435	VAL
13	Pp	274	LEU
13	Pp	294	GLN
13	Pp	378	LEU
13	Pp	396	THR
13	Pp	401	VAL
13	Pp	419	LEU
13	Pp	448	LEU
13	Pq	266	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1665) such sidechains are listed below:

Mol	Chain	Res	Type
1	Aa	15	GLN
1	Aa	48	ASN
1	Aa	78	GLN
1	Aa	91	ASN
1	Aa	104	GLN
1	Aa	117	ASN
1	Aa	165	GLN
1	Aa	173	GLN
1	Aa	190	GLN
1	Aa	191	ASN
1	Aa	261	GLN
1	Ab	87	GLN
1	Ab	104	GLN
1	Ab	138	GLN
1	Ab	154	ASN
1	Ab	190	GLN
1	Ab	226	ASN
1	Ab	261	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Ac	2	GLN
1	Ac	25	ASN
1	Ac	50	ASN
1	Ac	51	GLN
1	Ac	87	GLN
1	Ac	169	GLN
1	Ac	224	ASN
1	Ac	226	ASN
1	Ac	261	GLN
1	Ad	16	GLN
1	Ad	25	ASN
1	Ad	50	ASN
1	Ad	173	GLN
1	Ad	217	GLN
1	Ad	233	ASN
1	Ad	238	GLN
1	Ae	2	GLN
1	Ae	15	GLN
1	Ae	24	ASN
1	Ae	47	GLN
1	Ae	58	GLN
1	Ae	78	GLN
1	Ae	85	ASN
1	Ae	87	GLN
1	Ae	173	GLN
1	Ae	181	ASN
1	Ae	217	GLN
1	Ae	238	GLN
1	Ae	244	ASN
1	Ae	260	GLN
1	Ae	261	GLN
1	Af	2	GLN
1	Af	28	ASN
1	Af	58	GLN
1	Af	87	GLN
1	Af	104	GLN
1	Af	190	GLN
1	Ag	24	ASN
1	Ag	48	ASN
1	Ag	58	GLN
1	Ag	81	HIS
1	Ag	91	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Ag	104	GLN
1	Ag	111	ASN
1	Ag	119	GLN
1	Ag	138	GLN
1	Ag	191	ASN
1	Ag	203	GLN
1	Ag	217	GLN
1	Ah	15	GLN
1	Ah	48	ASN
1	Ah	51	GLN
1	Ah	85	ASN
1	Ah	87	GLN
1	Ah	91	ASN
1	Ah	169	GLN
1	Ah	190	GLN
1	Ah	191	ASN
1	Ah	226	ASN
1	Ai	2	GLN
1	Ai	47	GLN
1	Ai	55	GLN
1	Ai	111	ASN
1	Ai	166	GLN
1	Aj	15	GLN
1	Aj	16	GLN
1	Aj	28	ASN
1	Aj	78	GLN
1	Aj	81	HIS
1	Aj	87	GLN
1	Aj	104	GLN
1	Aj	117	ASN
1	Aj	119	GLN
1	Aj	233	ASN
1	Ak	51	GLN
1	Ak	83	ASN
1	Ak	85	ASN
1	Ak	104	GLN
1	Ak	168	ASN
1	Ak	173	GLN
1	Ak	191	ASN
1	Ak	217	GLN
1	Ak	233	ASN
1	Ak	259	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Al	15	GLN
1	Al	58	GLN
1	Al	85	ASN
1	Al	165	GLN
1	Al	169	GLN
1	Al	191	ASN
1	Am	15	GLN
1	Am	58	GLN
1	Am	104	GLN
1	Am	111	ASN
1	Am	138	GLN
1	Am	165	GLN
1	Am	173	GLN
1	Am	203	GLN
1	An	2	GLN
1	An	16	GLN
1	An	24	ASN
1	An	25	ASN
1	An	48	ASN
1	An	81	HIS
1	An	104	GLN
1	An	138	GLN
1	An	173	GLN
1	An	191	ASN
1	Ao	25	ASN
1	Ao	87	GLN
1	Ao	104	GLN
1	Ao	191	ASN
1	Ao	203	GLN
1	Ap	15	GLN
1	Ap	25	ASN
1	Ap	47	GLN
1	Ap	87	GLN
1	Ap	91	ASN
1	Ap	165	GLN
1	Ap	166	GLN
1	Ap	169	GLN
1	Ap	191	ASN
1	Ap	203	GLN
1	Ap	259	ASN
1	Aq	47	GLN
1	Aq	104	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Aq	138	GLN
1	Ar	48	ASN
1	Ar	50	ASN
1	Ar	85	ASN
1	Ar	117	ASN
1	Ar	138	GLN
1	Ar	169	GLN
1	Ar	259	ASN
1	As	48	ASN
1	As	85	ASN
1	As	104	GLN
1	As	166	GLN
1	As	173	GLN
1	At	47	GLN
1	At	83	ASN
1	At	91	ASN
1	At	104	GLN
1	At	119	GLN
1	At	259	ASN
1	At	261	GLN
1	Au	2	GLN
1	Au	55	GLN
1	Au	78	GLN
1	Au	104	GLN
1	Au	119	GLN
1	Au	168	ASN
1	Au	173	GLN
1	Au	181	ASN
1	Au	217	GLN
1	Av	2	GLN
1	Av	16	GLN
1	Av	83	ASN
1	Av	85	ASN
1	Av	138	GLN
1	Av	203	GLN
1	Av	217	GLN
1	Av	238	GLN
1	Av	261	GLN
1	Aw	2	GLN
1	Aw	48	ASN
1	Aw	51	GLN
1	Aw	58	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Aw	78	GLN
1	Aw	83	ASN
1	Aw	85	ASN
1	Aw	91	ASN
1	Aw	104	GLN
1	Aw	117	ASN
1	Aw	138	GLN
1	Aw	166	GLN
1	Aw	168	ASN
1	Ax	2	GLN
1	Ax	16	GLN
1	Ax	25	ASN
1	Ax	47	GLN
1	Ax	48	ASN
1	Ax	87	GLN
1	Ax	104	GLN
1	Ax	138	GLN
1	Ax	169	GLN
1	Ax	173	GLN
1	Ax	203	GLN
1	Ax	260	GLN
1	Ay	25	ASN
1	Ay	78	GLN
1	Ay	104	GLN
1	Ay	244	ASN
1	Ay	260	GLN
1	Ay	261	GLN
1	Az	81	HIS
1	Az	138	GLN
1	Az	165	GLN
2	Ba	17	GLN
2	Ba	83	GLN
2	Ba	104	ASN
2	Ba	117	ASN
2	Ba	224	GLN
2	Ba	228	GLN
1	Bb	15	GLN
1	Bb	25	ASN
1	Bb	104	GLN
1	Bb	119	GLN
1	Bb	190	GLN
1	Bb	260	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Bb	261	GLN
2	Bc	15	ASN
2	Bc	83	GLN
2	Bc	119	HIS
2	Bd	17	GLN
2	Bd	83	GLN
2	Bd	119	HIS
2	Bd	170	ASN
2	Bd	228	GLN
3	Be	13	GLN
3	Be	17	ASN
3	Be	25	ASN
3	Be	100	GLN
3	Be	110	HIS
3	Be	340	ASN
3	Be	364	GLN
3	Be	423	HIS
3	Bf	13	GLN
3	Bf	22	ASN
3	Bf	25	ASN
3	Bf	65	GLN
3	Bf	106	ASN
3	Bf	121	ASN
3	Bf	150	GLN
3	Bf	340	ASN
3	Bf	424	ASN
3	Bf	429	ASN
3	Bg	65	GLN
3	Bg	77	ASN
3	Bg	101	ASN
3	Bg	428	GLN
3	Bh	21	ASN
3	Bh	56	GLN
3	Bh	65	GLN
3	Bh	369	GLN
3	Bh	427	GLN
3	Bh	432	GLN
3	Bi	22	ASN
3	Bi	68	HIS
3	Bi	99	GLN
3	Bi	416	ASN
3	Bi	428	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	Bj	13	GLN
3	Bj	21	ASN
3	Bj	65	GLN
3	Bj	66	GLN
3	Bj	364	GLN
3	Bj	412	ASN
3	Bj	429	ASN
3	Bj	432	GLN
3	Bk	110	HIS
3	Bk	340	ASN
3	Bk	353	ASN
3	Bk	380	ASN
3	Bk	401	GLN
3	Bk	428	GLN
3	Bl	77	ASN
3	Bl	328	ASN
3	Bl	380	ASN
3	Bl	394	GLN
3	Bl	416	ASN
3	Bl	427	GLN
3	Bm	65	GLN
3	Bm	68	HIS
3	Bm	150	GLN
3	Bm	364	GLN
3	Bm	429	ASN
3	Bn	21	ASN
3	Bn	59	GLN
3	Bn	340	ASN
3	Bn	353	ASN
3	Bo	22	ASN
3	Bo	65	GLN
3	Bo	106	ASN
3	Bo	110	HIS
3	Bo	380	ASN
3	Bo	396	ASN
3	Bp	328	ASN
3	Bp	353	ASN
3	Bp	414	GLN
3	Bp	416	ASN
3	Bp	427	GLN
3	Bp	428	GLN
3	Bq	21	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	Bq	27	ASN
3	Bq	65	GLN
3	Bq	353	ASN
3	Br	13	GLN
3	Br	65	GLN
3	Br	68	HIS
3	Br	340	ASN
3	Br	423	HIS
3	Bs	21	ASN
3	Bs	65	GLN
3	Bs	99	GLN
3	Bs	100	GLN
3	Bs	353	ASN
3	Bs	414	GLN
3	Bs	428	GLN
3	Bs	432	GLN
3	Bt	22	ASN
3	Bt	65	GLN
3	Bt	66	GLN
3	Bt	110	HIS
3	Bt	353	ASN
3	Bt	429	ASN
3	Bu	65	GLN
3	Bu	428	GLN
3	Bu	429	ASN
2	Bv	15	ASN
2	Bv	83	GLN
2	Bv	222	GLN
2	Bv	224	GLN
2	Bw	17	GLN
2	Bw	68	GLN
2	Bw	170	ASN
2	Bw	222	GLN
2	Bw	228	GLN
4	Bx	112	ASN
4	Bx	129	ASN
4	Bx	156	ASN
4	Bx	158	ASN
4	Bx	200	ASN
4	Bx	226	ASN
4	Bx	255	ASN
4	By	112	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	By	129	ASN
4	By	156	ASN
4	By	158	ASN
4	By	200	ASN
4	By	226	ASN
4	By	255	ASN
4	Bz	112	ASN
4	Bz	129	ASN
4	Bz	156	ASN
4	Bz	158	ASN
4	Bz	200	ASN
4	Bz	226	ASN
4	Bz	255	ASN
4	Ca	112	ASN
4	Ca	129	ASN
4	Ca	156	ASN
4	Ca	158	ASN
4	Ca	200	ASN
4	Ca	226	ASN
4	Ca	255	ASN
4	Cb	112	ASN
4	Cb	129	ASN
4	Cb	156	ASN
4	Cb	158	ASN
4	Cb	200	ASN
4	Cb	226	ASN
4	Cb	255	ASN
4	Cc	112	ASN
4	Cc	129	ASN
4	Cc	156	ASN
4	Cc	158	ASN
4	Cc	200	ASN
4	Cc	226	ASN
4	Cc	255	ASN
4	Cd	112	ASN
4	Cd	129	ASN
4	Cd	200	ASN
4	Cd	226	ASN
4	Cd	255	ASN
4	Ce	112	ASN
4	Ce	129	ASN
4	Ce	158	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	Ce	200	ASN
4	Ce	226	ASN
4	Ce	255	ASN
4	Cf	112	ASN
4	Cf	129	ASN
4	Cf	156	ASN
4	Cf	158	ASN
4	Cf	200	ASN
4	Cf	226	ASN
4	Cf	255	ASN
4	Cg	112	ASN
4	Cg	129	ASN
4	Cg	156	ASN
4	Cg	158	ASN
4	Cg	200	ASN
4	Cg	226	ASN
4	Cg	255	ASN
4	Ch	112	ASN
4	Ch	129	ASN
4	Ch	156	ASN
4	Ch	158	ASN
4	Ch	200	ASN
4	Ch	226	ASN
4	Ch	255	ASN
4	Ci	112	ASN
4	Ci	129	ASN
4	Ci	156	ASN
4	Ci	158	ASN
4	Ci	200	ASN
4	Ci	226	ASN
4	Ci	255	ASN
4	Cj	112	ASN
4	Cj	129	ASN
4	Cj	156	ASN
4	Cj	158	ASN
4	Cj	200	ASN
4	Cj	226	ASN
4	Cj	255	ASN
4	Ck	112	ASN
4	Ck	129	ASN
4	Ck	149	ASN
4	Ck	156	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	Ck	158	ASN
4	Ck	200	ASN
4	Ck	226	ASN
4	Ck	255	ASN
4	Cl	112	ASN
4	Cl	129	ASN
4	Cl	156	ASN
4	Cl	158	ASN
4	Cl	200	ASN
4	Cl	226	ASN
4	Cl	255	ASN
4	Cm	112	ASN
4	Cm	129	ASN
4	Cm	156	ASN
4	Cm	158	ASN
4	Cm	200	ASN
4	Cm	226	ASN
4	Cm	255	ASN
4	Cn	112	ASN
4	Cn	129	ASN
4	Cn	156	ASN
4	Cn	158	ASN
4	Cn	200	ASN
4	Cn	226	ASN
4	Cn	255	ASN
4	Co	112	ASN
4	Co	129	ASN
4	Co	156	ASN
4	Co	158	ASN
4	Co	200	ASN
4	Co	226	ASN
4	Co	255	ASN
4	Cp	112	ASN
4	Cp	129	ASN
4	Cp	156	ASN
4	Cp	158	ASN
4	Cp	200	ASN
4	Cp	226	ASN
4	Cp	255	ASN
4	Cq	112	ASN
4	Cq	129	ASN
4	Cq	156	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	Cq	158	ASN
4	Cq	200	ASN
4	Cq	226	ASN
4	Cq	255	ASN
4	Cr	112	ASN
4	Cr	129	ASN
4	Cr	156	ASN
4	Cr	158	ASN
4	Cr	200	ASN
4	Cr	226	ASN
4	Cr	255	ASN
4	Cs	112	ASN
4	Cs	129	ASN
4	Cs	156	ASN
4	Cs	158	ASN
4	Cs	200	ASN
4	Cs	226	ASN
4	Cs	255	ASN
4	Ct	112	ASN
4	Ct	156	ASN
4	Ct	158	ASN
4	Ct	200	ASN
4	Ct	226	ASN
4	Ct	255	ASN
4	Cu	112	ASN
4	Cu	129	ASN
4	Cu	156	ASN
4	Cu	158	ASN
4	Cu	200	ASN
4	Cu	226	ASN
4	Cu	255	ASN
4	Cv	112	ASN
4	Cv	129	ASN
4	Cv	156	ASN
4	Cv	158	ASN
4	Cv	200	ASN
4	Cv	226	ASN
4	Cv	255	ASN
4	Cw	112	ASN
4	Cw	129	ASN
4	Cw	156	ASN
4	Cw	158	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	Cw	200	ASN
4	Cw	226	ASN
4	Cw	255	ASN
5	Cx	26	GLN
5	Cx	56	GLN
5	Cx	195	GLN
5	Cx	253	ASN
5	Cx	264	ASN
5	Cx	357	GLN
5	Cy	26	GLN
5	Cy	56	GLN
5	Cy	253	ASN
5	Cy	264	ASN
5	Cy	357	GLN
5	Cz	26	GLN
5	Cz	56	GLN
5	Cz	195	GLN
5	Cz	228	GLN
5	Cz	253	ASN
5	Cz	264	ASN
5	Cz	346	GLN
5	Cz	357	GLN
5	Da	26	GLN
5	Da	56	GLN
5	Da	134	GLN
5	Da	195	GLN
5	Da	228	GLN
5	Da	253	ASN
5	Da	264	ASN
5	Da	346	GLN
5	Da	357	GLN
5	Db	26	GLN
5	Db	56	GLN
5	Db	195	GLN
5	Db	228	GLN
5	Db	253	ASN
5	Db	264	ASN
5	Db	346	GLN
5	Db	357	GLN
5	Dc	26	GLN
5	Dc	56	GLN
5	Dc	134	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	Dc	195	GLN
5	Dc	228	GLN
5	Dc	253	ASN
5	Dc	264	ASN
5	Dc	346	GLN
5	Dc	357	GLN
5	Dd	26	GLN
5	Dd	56	GLN
5	Dd	195	GLN
5	Dd	228	GLN
5	Dd	253	ASN
5	Dd	264	ASN
5	Dd	346	GLN
5	Dd	357	GLN
5	De	26	GLN
5	De	56	GLN
5	De	155	ASN
5	De	195	GLN
5	De	228	GLN
5	De	253	ASN
5	De	264	ASN
5	De	346	GLN
5	De	357	GLN
5	Df	26	GLN
5	Df	56	GLN
5	Df	134	GLN
5	Df	195	GLN
5	Df	228	GLN
5	Df	253	ASN
5	Df	264	ASN
5	Df	346	GLN
5	Df	357	GLN
5	Dg	26	GLN
5	Dg	56	GLN
5	Dg	134	GLN
5	Dg	195	GLN
5	Dg	228	GLN
5	Dg	253	ASN
5	Dg	264	ASN
5	Dg	357	GLN
5	Dh	26	GLN
5	Dh	56	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	Dh	195	GLN
5	Dh	253	ASN
5	Dh	264	ASN
5	Dh	357	GLN
5	Di	26	GLN
5	Di	56	GLN
5	Di	195	GLN
5	Di	228	GLN
5	Di	253	ASN
5	Di	264	ASN
5	Di	357	GLN
5	Dj	26	GLN
5	Dj	56	GLN
5	Dj	134	GLN
5	Dj	195	GLN
5	Dj	228	GLN
5	Dj	253	ASN
5	Dj	264	ASN
5	Dj	357	GLN
5	Dk	26	GLN
5	Dk	56	GLN
5	Dk	134	GLN
5	Dk	195	GLN
5	Dk	253	ASN
5	Dk	264	ASN
5	Dk	357	GLN
5	Dl	26	GLN
5	Dl	56	GLN
5	Dl	134	GLN
5	Dl	195	GLN
5	Dl	228	GLN
5	Dl	253	ASN
5	Dl	264	ASN
5	Dl	357	GLN
5	Dm	26	GLN
5	Dm	56	GLN
5	Dm	134	GLN
5	Dm	195	GLN
5	Dm	253	ASN
5	Dm	264	ASN
5	Dm	357	GLN
5	Dn	26	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	Dn	56	GLN
5	Dn	134	GLN
5	Dn	195	GLN
5	Dn	228	GLN
5	Dn	253	ASN
5	Dn	264	ASN
5	Dn	357	GLN
5	Do	26	GLN
5	Do	56	GLN
5	Do	195	GLN
5	Do	253	ASN
5	Do	264	ASN
5	Do	357	GLN
5	Dp	26	GLN
5	Dp	56	GLN
5	Dp	134	GLN
5	Dp	195	GLN
5	Dp	228	GLN
5	Dp	253	ASN
5	Dp	264	ASN
5	Dp	346	GLN
5	Dp	357	GLN
5	Dq	26	GLN
5	Dq	56	GLN
5	Dq	134	GLN
5	Dq	195	GLN
5	Dq	228	GLN
5	Dq	253	ASN
5	Dq	264	ASN
5	Dq	357	GLN
5	Dr	26	GLN
5	Dr	56	GLN
5	Dr	134	GLN
5	Dr	195	GLN
5	Dr	228	GLN
5	Dr	253	ASN
5	Dr	264	ASN
5	Dr	357	GLN
5	Ds	26	GLN
5	Ds	56	GLN
5	Ds	134	GLN
5	Ds	253	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	Ds	264	ASN
5	Ds	346	GLN
5	Ds	357	GLN
5	Dt	26	GLN
5	Dt	56	GLN
5	Dt	134	GLN
5	Dt	195	GLN
5	Dt	228	GLN
5	Dt	253	ASN
5	Dt	264	ASN
5	Dt	357	GLN
5	Du	26	GLN
5	Du	56	GLN
5	Du	134	GLN
5	Du	195	GLN
5	Du	253	ASN
5	Du	264	ASN
5	Du	357	GLN
5	Dv	26	GLN
5	Dv	56	GLN
5	Dv	195	GLN
5	Dv	228	GLN
5	Dv	253	ASN
5	Dv	264	ASN
5	Dv	357	GLN
5	Dw	26	GLN
5	Dw	56	GLN
5	Dw	253	ASN
5	Dw	264	ASN
5	Dw	357	GLN
6	Dx	116	HIS
6	Dx	154	ASN
6	Dx	217	ASN
6	Dx	293	GLN
6	Dy	154	ASN
6	Dy	217	ASN
6	Dy	322	HIS
6	Dy	374	HIS
6	Dz	253	GLN
6	Dz	374	HIS
6	Ea	159	GLN
6	Ea	293	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	Ea	322	HIS
6	Eb	212	GLN
6	Eb	217	ASN
6	Eb	339	GLN
6	Ec	66	ASN
6	Ec	135	GLN
6	Ec	159	GLN
6	Ec	217	ASN
6	Ec	253	GLN
6	Ec	322	HIS
6	Ed	159	GLN
6	Ed	293	GLN
6	Ed	314	GLN
6	Ee	253	GLN
6	Ee	322	HIS
6	Ee	374	HIS
6	Ef	212	GLN
6	Eg	253	GLN
6	Eg	322	HIS
6	Eh	154	ASN
6	Eh	253	GLN
6	Ei	154	ASN
6	Ei	159	GLN
6	Ei	314	GLN
6	Ei	322	HIS
6	Ei	368	GLN
6	Ej	314	GLN
6	Ek	135	GLN
6	Ek	159	GLN
6	Ek	212	GLN
6	Ek	253	GLN
6	Ek	322	HIS
6	Ek	374	HIS
6	El	253	GLN
6	Em	44	HIS
6	Em	253	GLN
6	Em	322	HIS
6	En	66	ASN
6	Eo	135	GLN
6	Eo	141	GLN
6	Eo	159	GLN
6	Eo	322	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	Eo	368	GLN
6	Ep	116	HIS
6	Ep	135	GLN
6	Ep	154	ASN
6	Ep	159	GLN
6	Ep	212	GLN
6	Ep	217	ASN
6	Ep	374	HIS
6	Eq	116	HIS
6	Eq	154	ASN
6	Eq	217	ASN
6	Eq	322	HIS
6	Eq	368	GLN
6	Eq	374	HIS
6	Er	66	ASN
6	Er	154	ASN
6	Es	116	HIS
6	Es	322	HIS
6	Es	330	GLN
6	Et	66	ASN
6	Et	159	GLN
6	Et	293	GLN
6	Et	374	HIS
6	Eu	159	GLN
6	Eu	217	ASN
6	Eu	322	HIS
6	Eu	339	GLN
6	Ev	135	GLN
6	Ev	217	ASN
6	Ew	135	GLN
6	Ew	154	ASN
6	Ew	159	GLN
6	Ew	217	ASN
6	Ew	293	GLN
6	Ew	322	HIS
6	Ew	374	HIS
7	Ex	108	GLN
7	Ex	143	GLN
7	Ex	147	GLN
7	Ex	282	ASN
7	Ey	50	HIS
7	Ey	120	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	Ey	189	GLN
7	Ey	235	GLN
7	Ey	293	GLN
7	Ez	112	GLN
7	Ez	143	GLN
7	Ez	147	GLN
7	Ez	282	ASN
7	Fa	50	HIS
7	Fa	120	GLN
7	Fa	235	GLN
7	Fa	293	GLN
7	Fb	143	GLN
7	Fb	147	GLN
7	Fb	282	ASN
7	Fc	50	HIS
7	Fc	120	GLN
7	Fc	189	GLN
7	Fc	235	GLN
7	Fc	293	GLN
7	Fd	112	GLN
7	Fd	143	GLN
7	Fd	147	GLN
7	Fd	282	ASN
7	Fe	50	HIS
7	Fe	120	GLN
7	Fe	189	GLN
7	Fe	235	GLN
7	Fe	293	GLN
7	Ff	112	GLN
7	Ff	143	GLN
7	Ff	147	GLN
7	Ff	282	ASN
7	Fg	50	HIS
7	Fg	120	GLN
7	Fg	143	GLN
7	Fg	147	GLN
7	Fg	235	GLN
7	Fg	293	GLN
7	Fh	143	GLN
7	Fh	147	GLN
7	Fh	282	ASN
7	Fi	50	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	Fi	120	GLN
7	Fi	147	GLN
7	Fi	189	GLN
7	Fi	235	GLN
7	Fi	293	GLN
7	Fj	147	GLN
7	Fj	282	ASN
7	Fk	50	HIS
7	Fk	120	GLN
7	Fk	235	GLN
7	Fk	293	GLN
7	Fl	112	GLN
7	Fl	143	GLN
7	Fl	147	GLN
7	Fl	282	ASN
7	Fm	32	GLN
7	Fm	50	HIS
7	Fm	120	GLN
7	Fm	147	GLN
7	Fm	235	GLN
7	Fm	293	GLN
7	Fn	108	GLN
7	Fn	143	GLN
7	Fn	147	GLN
7	Fn	282	ASN
7	Fo	50	HIS
7	Fo	120	GLN
7	Fo	147	GLN
7	Fo	235	GLN
7	Fo	293	GLN
7	Fp	108	GLN
7	Fp	112	GLN
7	Fp	143	GLN
7	Fp	147	GLN
7	Fp	282	ASN
7	Fq	32	GLN
7	Fq	50	HIS
7	Fq	120	GLN
7	Fq	147	GLN
7	Fq	235	GLN
7	Fq	293	GLN
7	Fr	108	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	Fr	143	GLN
7	Fr	147	GLN
7	Fr	282	ASN
7	Fs	50	HIS
7	Fs	120	GLN
7	Fs	235	GLN
7	Fs	293	GLN
7	Ft	108	GLN
7	Ft	143	GLN
7	Ft	147	GLN
7	Ft	282	ASN
7	Fu	32	GLN
7	Fu	50	HIS
7	Fu	120	GLN
7	Fu	147	GLN
7	Fu	235	GLN
7	Fu	293	GLN
7	Fv	143	GLN
7	Fv	147	GLN
7	Fv	282	ASN
7	Fw	50	HIS
7	Fw	120	GLN
7	Fw	147	GLN
7	Fw	235	GLN
7	Fw	293	GLN
8	Fx	145	ASN
8	Fx	149	GLN
8	Fx	183	ASN
8	Fy	57	GLN
8	Fy	90	GLN
8	Fy	113	GLN
8	Fy	149	GLN
8	Fy	179	GLN
8	Fy	182	HIS
8	Fz	145	ASN
8	Fz	149	GLN
8	Fz	173	ASN
8	Fz	183	ASN
8	Ga	57	GLN
8	Ga	90	GLN
8	Ga	149	GLN
8	Ga	179	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	Gb	145	ASN
8	Gb	149	GLN
8	Gb	183	ASN
8	Gc	57	GLN
8	Gc	90	GLN
8	Gc	149	GLN
8	Gc	179	GLN
8	Gc	182	HIS
8	Gd	145	ASN
8	Gd	149	GLN
8	Gd	183	ASN
8	Ge	57	GLN
8	Ge	90	GLN
8	Ge	113	GLN
8	Ge	149	GLN
8	Ge	179	GLN
8	Ge	182	HIS
8	Gf	145	ASN
8	Gf	149	GLN
8	Gf	173	ASN
8	Gf	183	ASN
8	Gg	57	GLN
8	Gg	90	GLN
8	Gg	149	GLN
8	Gg	179	GLN
8	Gg	182	HIS
8	Gh	145	ASN
8	Gh	149	GLN
8	Gh	183	ASN
8	Gi	57	GLN
8	Gi	90	GLN
8	Gi	149	GLN
8	Gi	179	GLN
8	Gi	182	HIS
8	Gj	145	ASN
8	Gj	149	GLN
8	Gj	183	ASN
8	Gk	57	GLN
8	Gk	90	GLN
8	Gk	149	GLN
8	Gk	179	GLN
8	Gk	182	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	Gl	145	ASN
8	Gl	149	GLN
8	Gl	173	ASN
8	Gl	183	ASN
8	Gm	57	GLN
8	Gm	90	GLN
8	Gm	149	GLN
8	Gm	179	GLN
8	Gm	182	HIS
8	Gn	145	ASN
8	Gn	149	GLN
8	Gn	173	ASN
8	Gn	183	ASN
8	Go	57	GLN
8	Go	90	GLN
8	Go	149	GLN
8	Go	179	GLN
8	Go	182	HIS
8	Gp	145	ASN
8	Gp	149	GLN
8	Gp	173	ASN
8	Gp	183	ASN
8	Gq	57	GLN
8	Gq	90	GLN
8	Gq	149	GLN
8	Gq	179	GLN
8	Gr	145	ASN
8	Gr	149	GLN
8	Gr	173	ASN
8	Gr	183	ASN
8	Gs	57	GLN
8	Gs	90	GLN
8	Gs	149	GLN
8	Gs	179	GLN
8	Gs	182	HIS
8	Gt	145	ASN
8	Gt	149	GLN
8	Gt	173	ASN
8	Gt	183	ASN
8	Gu	57	GLN
8	Gu	90	GLN
8	Gu	149	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	Gu	179	GLN
8	Gv	145	ASN
8	Gv	149	GLN
8	Gv	173	ASN
8	Gv	183	ASN
8	Gw	57	GLN
8	Gw	90	GLN
8	Gw	149	GLN
8	Gw	179	GLN
8	Gw	182	HIS
9	Hy	135	GLN
9	If	134	GLN
9	If	135	GLN
9	Ih	135	GLN
9	Ii	134	GLN
9	Il	134	GLN
9	In	135	GLN
9	Io	135	GLN
9	Ip	141	GLN
9	Iq	135	GLN
9	It	141	GLN
9	Iu	141	GLN
9	Iv	135	GLN
10	Ix	147	GLN
10	Ix	148	GLN
10	Ix	150	GLN
10	Ix	155	GLN
10	Ix	278	GLN
10	Iy	147	GLN
10	Iy	148	GLN
10	Iy	150	GLN
10	Iy	155	GLN
10	Iy	212	GLN
10	Iy	266	HIS
10	Iy	278	GLN
10	Iy	283	ASN
10	Iy	292	ASN
10	Iz	147	GLN
10	Iz	148	GLN
10	Iz	150	GLN
10	Iz	155	GLN
10	Iz	249	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	Iz	278	GLN
10	Ja	147	GLN
10	Ja	148	GLN
10	Ja	150	GLN
10	Ja	155	GLN
10	Ja	212	GLN
10	Ja	266	HIS
10	Ja	278	GLN
10	Jb	147	GLN
10	Jb	148	GLN
10	Jb	150	GLN
10	Jb	155	GLN
10	Jb	278	GLN
10	Jc	147	GLN
10	Jc	148	GLN
10	Jc	150	GLN
10	Jc	155	GLN
10	Jc	249	GLN
10	Jc	278	GLN
10	Jc	283	ASN
10	Jc	292	ASN
10	Jd	147	GLN
10	Jd	148	GLN
10	Jd	150	GLN
10	Jd	155	GLN
10	Jd	249	GLN
10	Jd	278	GLN
10	Je	147	GLN
10	Je	148	GLN
10	Je	150	GLN
10	Je	155	GLN
10	Je	278	GLN
10	Jf	147	GLN
10	Jf	148	GLN
10	Jf	150	GLN
10	Jf	155	GLN
10	Jf	212	GLN
10	Jf	249	GLN
10	Jf	278	GLN
10	Jg	147	GLN
10	Jg	148	GLN
10	Jg	150	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	Jg	155	GLN
10	Jg	203	GLN
10	Jg	266	HIS
10	Jg	278	GLN
10	Jh	147	GLN
10	Jh	148	GLN
10	Jh	150	GLN
10	Jh	155	GLN
10	Jh	212	GLN
10	Jh	249	GLN
10	Jh	278	GLN
10	Ji	147	GLN
10	Ji	148	GLN
10	Ji	150	GLN
10	Ji	155	GLN
10	Ji	278	GLN
10	Jj	147	GLN
10	Jj	148	GLN
10	Jj	150	GLN
10	Jj	155	GLN
10	Jj	212	GLN
10	Jj	249	GLN
10	Jj	278	GLN
10	Jk	147	GLN
10	Jk	148	GLN
10	Jk	150	GLN
10	Jk	155	GLN
10	Jk	278	GLN
10	Jk	283	ASN
10	Jk	292	ASN
10	Jl	147	GLN
10	Jl	148	GLN
10	Jl	150	GLN
10	Jl	155	GLN
10	Jl	249	GLN
10	Jl	278	GLN
10	Jm	147	GLN
10	Jm	148	GLN
10	Jm	150	GLN
10	Jm	155	GLN
10	Jm	266	HIS
10	Jm	278	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	Jn	147	GLN
10	Jn	148	GLN
10	Jn	150	GLN
10	Jn	155	GLN
10	Jn	249	GLN
10	Jn	278	GLN
10	Jo	147	GLN
10	Jo	148	GLN
10	Jo	150	GLN
10	Jo	155	GLN
10	Jo	266	HIS
10	Jo	278	GLN
10	Jp	147	GLN
10	Jp	148	GLN
10	Jp	150	GLN
10	Jp	155	GLN
10	Jp	278	GLN
10	Jq	147	GLN
10	Jq	148	GLN
10	Jq	150	GLN
10	Jq	155	GLN
10	Jq	212	GLN
10	Jq	266	HIS
10	Jq	278	GLN
10	Jr	147	GLN
10	Jr	148	GLN
10	Jr	150	GLN
10	Jr	155	GLN
10	Jr	249	GLN
10	Jr	278	GLN
10	Js	147	GLN
10	Js	148	GLN
10	Js	150	GLN
10	Js	155	GLN
10	Js	266	HIS
10	Js	278	GLN
10	Jt	147	GLN
10	Jt	148	GLN
10	Jt	150	GLN
10	Jt	155	GLN
10	Jt	212	GLN
10	Jt	249	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	Jt	278	GLN
10	Ju	147	GLN
10	Ju	148	GLN
10	Ju	150	GLN
10	Ju	155	GLN
10	Ju	266	HIS
10	Ju	278	GLN
10	Jv	147	GLN
10	Jv	148	GLN
10	Jv	150	GLN
10	Jv	155	GLN
10	Jv	249	GLN
10	Jv	278	GLN
10	Jw	147	GLN
10	Jw	148	GLN
10	Jw	150	GLN
10	Jw	155	GLN
10	Jw	266	HIS
10	Jw	278	GLN
11	Jx	83	GLN
11	Jy	83	GLN
11	Jz	83	GLN
11	Ka	83	GLN
11	Kb	83	GLN
11	Kc	83	GLN
11	Kd	83	GLN
11	Ke	83	GLN
11	Kf	83	GLN
11	Kg	83	GLN
11	Kh	83	GLN
11	Ki	83	GLN
11	Kj	83	GLN
11	Kk	83	GLN
11	Kl	83	GLN
11	Km	83	GLN
11	Kn	83	GLN
11	Ko	83	GLN
11	Kp	83	GLN
11	Kq	83	GLN
11	Kr	83	GLN
11	Ks	83	GLN
11	Kt	83	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	Ku	83	GLN
11	Kv	83	GLN
11	Kw	83	GLN
11	Kx	83	GLN
11	Ky	83	GLN
11	Kz	83	GLN
11	La	83	GLN
11	Lb	83	GLN
11	Lc	83	GLN
11	Ld	83	GLN
11	Le	83	GLN
11	Lf	83	GLN
11	Lg	83	GLN
11	Lh	83	GLN
11	Li	83	GLN
11	Lj	83	GLN
11	Lk	83	GLN
11	Ll	83	GLN
11	Lm	83	GLN
11	Ln	83	GLN
11	Lo	83	GLN
11	Lp	83	GLN
11	Lq	83	GLN
11	Lr	83	GLN
11	Ls	83	GLN
11	Lt	83	GLN
11	Lu	68	GLN
11	Lu	83	GLN
11	Lv	83	GLN
11	Lw	83	GLN
11	Lx	83	GLN
11	Ly	83	GLN
11	Lz	83	GLN
11	Ma	83	GLN
11	Mb	83	GLN
11	Mc	83	GLN
12	Md	40	ASN
12	Md	52	HIS
12	Md	97	ASN
12	Md	124	GLN
12	Md	180	GLN
12	Me	40	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Me	52	HIS
12	Me	97	ASN
12	Me	124	GLN
12	Me	180	GLN
12	Mf	40	ASN
12	Mf	52	HIS
12	Mf	97	ASN
12	Mf	124	GLN
12	Mf	180	GLN
12	Mg	40	ASN
12	Mg	52	HIS
12	Mg	97	ASN
12	Mg	124	GLN
12	Mg	180	GLN
12	Mh	40	ASN
12	Mh	52	HIS
12	Mh	97	ASN
12	Mh	124	GLN
12	Mh	180	GLN
12	Mi	40	ASN
12	Mi	52	HIS
12	Mi	97	ASN
12	Mi	124	GLN
12	Mi	180	GLN
12	Mj	40	ASN
12	Mj	52	HIS
12	Mj	97	ASN
12	Mj	124	GLN
12	Mj	180	GLN
12	Mk	40	ASN
12	Mk	52	HIS
12	Mk	97	ASN
12	Mk	124	GLN
12	Mk	180	GLN
12	Ml	40	ASN
12	Ml	52	HIS
12	Ml	97	ASN
12	Ml	124	GLN
12	Ml	180	GLN
12	Mm	40	ASN
12	Mm	52	HIS
12	Mm	97	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Mm	124	GLN
12	Mm	180	GLN
12	Mn	40	ASN
12	Mn	52	HIS
12	Mn	97	ASN
12	Mn	124	GLN
12	Mn	180	GLN
12	Mo	40	ASN
12	Mo	52	HIS
12	Mo	97	ASN
12	Mo	124	GLN
12	Mo	180	GLN
12	Mp	40	ASN
12	Mp	52	HIS
12	Mp	97	ASN
12	Mp	124	GLN
12	Mp	180	GLN
12	Mq	40	ASN
12	Mq	52	HIS
12	Mq	97	ASN
12	Mq	124	GLN
12	Mq	180	GLN
12	Mr	40	ASN
12	Mr	52	HIS
12	Mr	97	ASN
12	Mr	124	GLN
12	Mr	180	GLN
12	Ms	40	ASN
12	Ms	52	HIS
12	Ms	97	ASN
12	Ms	124	GLN
12	Ms	180	GLN
12	Mt	40	ASN
12	Mt	52	HIS
12	Mt	97	ASN
12	Mt	124	GLN
12	Mt	180	GLN
12	Mu	40	ASN
12	Mu	52	HIS
12	Mu	97	ASN
12	Mu	124	GLN
12	Mu	180	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Mv	40	ASN
12	Mv	52	HIS
12	Mv	97	ASN
12	Mv	124	GLN
12	Mv	180	GLN
12	Mw	40	ASN
12	Mw	52	HIS
12	Mw	97	ASN
12	Mw	124	GLN
12	Mw	180	GLN
12	Mx	40	ASN
12	Mx	52	HIS
12	Mx	97	ASN
12	Mx	124	GLN
12	Mx	180	GLN
12	My	40	ASN
12	My	52	HIS
12	My	97	ASN
12	My	124	GLN
12	My	180	GLN
12	Mz	40	ASN
12	Mz	52	HIS
12	Mz	97	ASN
12	Mz	124	GLN
12	Mz	180	GLN
12	Na	40	ASN
12	Na	52	HIS
12	Na	97	ASN
12	Na	124	GLN
12	Na	180	GLN
12	Nb	40	ASN
12	Nb	52	HIS
12	Nb	97	ASN
12	Nb	124	GLN
12	Nb	180	GLN
12	Nc	40	ASN
12	Nc	52	HIS
12	Nc	97	ASN
12	Nc	124	GLN
12	Nc	180	GLN
12	Nd	40	ASN
12	Nd	52	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Nd	97	ASN
12	Nd	124	GLN
12	Nd	180	GLN
12	Ne	40	ASN
12	Ne	52	HIS
12	Ne	97	ASN
12	Ne	124	GLN
12	Ne	180	GLN
12	Nf	40	ASN
12	Nf	52	HIS
12	Nf	97	ASN
12	Nf	124	GLN
12	Nf	180	GLN
12	Ng	40	ASN
12	Ng	52	HIS
12	Ng	97	ASN
12	Ng	124	GLN
12	Ng	180	GLN
12	Nh	40	ASN
12	Nh	52	HIS
12	Nh	97	ASN
12	Nh	124	GLN
12	Nh	180	GLN
12	Ni	40	ASN
12	Ni	52	HIS
12	Ni	97	ASN
12	Ni	124	GLN
12	Ni	180	GLN
12	Nj	40	ASN
12	Nj	52	HIS
12	Nj	97	ASN
12	Nj	124	GLN
12	Nj	180	GLN
12	Nk	40	ASN
12	Nk	52	HIS
12	Nk	97	ASN
12	Nk	124	GLN
12	Nk	180	GLN
12	Nl	40	ASN
12	Nl	52	HIS
12	Nl	97	ASN
12	Nl	124	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Nl	180	GLN
12	Nm	40	ASN
12	Nm	52	HIS
12	Nm	97	ASN
12	Nm	124	GLN
12	Nm	180	GLN
12	Nn	40	ASN
12	Nn	52	HIS
12	Nn	97	ASN
12	Nn	124	GLN
12	Nn	180	GLN
12	No	40	ASN
12	No	52	HIS
12	No	97	ASN
12	No	124	GLN
12	No	180	GLN
12	Np	40	ASN
12	Np	52	HIS
12	Np	97	ASN
12	Np	124	GLN
12	Np	180	GLN
12	Nq	40	ASN
12	Nq	52	HIS
12	Nq	97	ASN
12	Nq	124	GLN
12	Nq	180	GLN
12	Nr	40	ASN
12	Nr	52	HIS
12	Nr	97	ASN
12	Nr	124	GLN
12	Nr	171	HIS
12	Nr	180	GLN
12	Ns	40	ASN
12	Ns	52	HIS
12	Ns	97	ASN
12	Ns	124	GLN
12	Ns	180	GLN
12	Nt	40	ASN
12	Nt	52	HIS
12	Nt	97	ASN
12	Nt	124	GLN
12	Nt	180	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Nu	40	ASN
12	Nu	52	HIS
12	Nu	97	ASN
12	Nu	124	GLN
12	Nu	180	GLN
12	Nv	40	ASN
12	Nv	52	HIS
12	Nv	97	ASN
12	Nv	124	GLN
12	Nv	180	GLN
12	Nw	40	ASN
12	Nw	52	HIS
12	Nw	97	ASN
12	Nw	124	GLN
12	Nw	180	GLN
12	Nx	40	ASN
12	Nx	52	HIS
12	Nx	97	ASN
12	Nx	124	GLN
12	Nx	180	GLN
12	Ny	40	ASN
12	Ny	52	HIS
12	Ny	97	ASN
12	Ny	124	GLN
12	Ny	180	GLN
12	Nz	40	ASN
12	Nz	52	HIS
12	Nz	97	ASN
12	Nz	124	GLN
12	Nz	180	GLN
12	Oa	40	ASN
12	Oa	52	HIS
12	Oa	97	ASN
12	Oa	124	GLN
12	Oa	180	GLN
12	Ob	40	ASN
12	Ob	52	HIS
12	Ob	97	ASN
12	Ob	124	GLN
12	Ob	180	GLN
12	Oc	40	ASN
12	Oc	52	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Oc	97	ASN
12	Oc	124	GLN
12	Oc	180	GLN
12	Od	40	ASN
12	Od	52	HIS
12	Od	97	ASN
12	Od	124	GLN
12	Od	180	GLN
12	Oe	40	ASN
12	Oe	52	HIS
12	Oe	97	ASN
12	Oe	124	GLN
12	Oe	180	GLN
12	Of	40	ASN
12	Of	52	HIS
12	Of	97	ASN
12	Of	124	GLN
12	Of	180	GLN
12	Og	40	ASN
12	Og	52	HIS
12	Og	97	ASN
12	Og	124	GLN
12	Og	180	GLN
12	Oh	40	ASN
12	Oh	52	HIS
12	Oh	97	ASN
12	Oh	124	GLN
12	Oh	180	GLN
12	Oi	40	ASN
12	Oi	52	HIS
12	Oi	97	ASN
12	Oi	124	GLN
12	Oi	180	GLN
13	Oj	306	GLN
13	Oj	375	ASN
13	Oj	446	ASN
13	Ok	290	ASN
13	Ok	375	ASN
13	Ok	429	GLN
13	Ol	290	ASN
13	Ol	314	ASN
13	Ol	446	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	Om	290	ASN
13	Om	294	GLN
13	Om	314	ASN
13	Om	369	HIS
13	Om	395	GLN
13	Om	446	ASN
13	On	290	ASN
13	On	294	GLN
13	On	375	ASN
13	Oo	270	GLN
13	Oo	290	ASN
13	Oo	429	GLN
13	Op	290	ASN
13	Oq	314	ASN
13	Oq	384	HIS
13	Or	440	ASN
13	Os	270	GLN
13	Os	294	GLN
13	Os	425	ASN
13	Os	446	ASN
13	Ot	290	ASN
13	Ot	314	ASN
13	Ot	429	GLN
13	Ou	290	ASN
13	Ou	314	ASN
13	Ou	429	GLN
13	Ov	290	ASN
13	Ov	294	GLN
13	Ov	395	GLN
13	Ow	290	ASN
13	Ow	384	HIS
13	Ow	395	GLN
13	Ow	429	GLN
13	Ow	446	ASN
13	Ox	290	ASN
13	Ox	314	ASN
13	Oy	270	GLN
13	Oy	290	ASN
13	Oy	314	ASN
13	Oy	375	ASN
13	Oz	290	ASN
13	Pa	270	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	Pa	375	ASN
13	Pa	384	HIS
13	Pa	425	ASN
13	Pa	446	ASN
13	Pb	290	ASN
13	Pb	393	ASN
13	Pc	290	ASN
13	Pc	314	ASN
13	Pc	395	GLN
13	Pd	314	ASN
13	Pd	369	HIS
13	Pd	384	HIS
13	Pd	446	ASN
13	Pe	395	GLN
13	Pf	270	GLN
13	Pf	290	ASN
13	Pf	314	ASN
13	Ph	270	GLN
13	Ph	290	ASN
13	Ph	314	ASN
13	Ph	446	ASN
13	Pi	290	ASN
13	Pi	395	GLN
13	Pi	429	GLN
13	Pj	290	ASN
13	Pj	369	HIS
13	Pj	429	GLN
13	Pj	446	ASN
13	Pk	290	ASN
13	Pk	294	GLN
13	Pk	314	ASN
13	Pk	446	ASN
13	Pl	290	ASN
13	Pl	294	GLN
13	Pl	314	ASN
13	Pl	369	HIS
13	Pl	395	GLN
13	Pl	429	GLN
13	Pm	395	GLN
13	Pm	446	ASN
13	Pn	290	ASN
13	Pn	375	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	Pn	384	HIS
13	Pn	395	GLN
13	Po	290	ASN
13	Po	314	ASN
13	Po	429	GLN
13	Pp	290	ASN
13	Pp	314	ASN
13	Pp	395	GLN
13	Pq	290	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
13	Ox	2
13	Or	2
13	Ow	2

Continued on next page...

Continued from previous page...

Mol	Chain	Number of breaks
13	Pd	2
13	Pi	2
13	Ph	2
13	Op	2
13	Om	2
13	Ov	2
13	Pe	2
13	Os	2
13	Oo	2
13	Pn	2
13	Pq	2
13	Po	2
13	Oy	2
13	Oq	2
13	Pl	2
13	Pp	2
13	Oz	2
13	Pm	2
13	Ok	2
13	Ol	2
13	Pa	2
13	Pj	2
13	Pf	2
13	Pg	2
13	On	2
13	Ou	2
13	Ot	2
13	Pc	2
13	Pk	2
13	Pb	2
13	Oj	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Ox	328:ASN	C	368:VAL	N	7.31
1	Or	328:ASN	C	368:VAL	N	7.21
1	Ow	328:ASN	C	368:VAL	N	6.70
1	Pd	328:ASN	C	368:VAL	N	6.62
1	Pi	328:ASN	C	368:VAL	N	6.43
1	Ph	328:ASN	C	368:VAL	N	6.41
1	Op	328:ASN	C	368:VAL	N	6.37
1	Om	328:ASN	C	368:VAL	N	6.30

Continued on next page...

Continued from previous page...

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Ov	328:ASN	C	368:VAL	N	6.28
1	Pe	328:ASN	C	368:VAL	N	6.27
1	Os	328:ASN	C	368:VAL	N	6.24
1	Oo	328:ASN	C	368:VAL	N	6.16
1	Pn	328:ASN	C	368:VAL	N	6.16
1	Pq	328:ASN	C	368:VAL	N	6.15
1	Po	328:ASN	C	368:VAL	N	6.11
1	Oy	328:ASN	C	368:VAL	N	6.09
1	Oq	328:ASN	C	368:VAL	N	6.07
1	Pl	328:ASN	C	368:VAL	N	6.07
1	Pp	328:ASN	C	368:VAL	N	6.06
1	Oz	328:ASN	C	368:VAL	N	6.04
1	Pm	328:ASN	C	368:VAL	N	6.04
1	Ow	403:SER	C	419:LEU	N	6.01
1	Ok	328:ASN	C	368:VAL	N	6.00
1	Os	403:SER	C	419:LEU	N	6.00
1	Ol	328:ASN	C	368:VAL	N	5.99
1	Pa	328:ASN	C	368:VAL	N	5.99
1	Pj	328:ASN	C	368:VAL	N	5.99
1	Pf	328:ASN	C	368:VAL	N	5.98
1	Pg	328:ASN	C	368:VAL	N	5.98
1	Pm	403:SER	C	419:LEU	N	5.93
1	On	328:ASN	C	368:VAL	N	5.92
1	Ou	403:SER	C	419:LEU	N	5.92
1	Op	403:SER	C	419:LEU	N	5.88
1	Ot	328:ASN	C	368:VAL	N	5.88
1	Ox	403:SER	C	419:LEU	N	5.87
1	Pg	403:SER	C	419:LEU	N	5.85
1	Pc	328:ASN	C	368:VAL	N	5.81
1	Ou	328:ASN	C	368:VAL	N	5.80
1	Pk	328:ASN	C	368:VAL	N	5.80
1	Oy	403:SER	C	419:LEU	N	5.75
1	Ok	403:SER	C	419:LEU	N	5.74
1	Pb	328:ASN	C	368:VAL	N	5.64
1	Pk	403:SER	C	419:LEU	N	5.61
1	Pe	403:SER	C	419:LEU	N	5.60
1	Oj	328:ASN	C	368:VAL	N	5.58
1	Po	403:SER	C	419:LEU	N	5.58
1	Oo	403:SER	C	419:LEU	N	5.56
1	Oj	403:SER	C	419:LEU	N	5.54
1	Pa	403:SER	C	419:LEU	N	5.48
1	Pb	403:SER	C	419:LEU	N	5.39

Continued on next page...

Continued from previous page...

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Pi	403:SER	C	419:LEU	N	5.39
1	On	403:SER	C	419:LEU	N	5.28
1	Ov	403:SER	C	419:LEU	N	5.24
1	Pl	403:SER	C	419:LEU	N	5.13
1	Oq	403:SER	C	419:LEU	N	5.11
1	Pn	403:SER	C	419:LEU	N	5.09
1	Ot	403:SER	C	419:LEU	N	5.01
1	Om	403:SER	C	419:LEU	N	4.99
1	Oz	403:SER	C	419:LEU	N	4.98
1	Pq	403:SER	C	419:LEU	N	4.87
1	Ph	403:SER	C	419:LEU	N	4.83
1	Pc	403:SER	C	419:LEU	N	4.78
1	Pf	403:SER	C	419:LEU	N	4.74
1	Pd	403:SER	C	419:LEU	N	4.63
1	Or	403:SER	C	419:LEU	N	4.58
1	Pp	403:SER	C	419:LEU	N	4.54
1	Ol	403:SER	C	419:LEU	N	4.35
1	Pj	403:SER	C	419:LEU	N	3.33

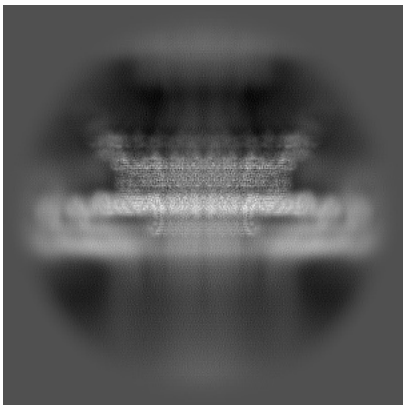
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-72961. These allow visual inspection of the internal detail of the map and identification of artifacts.

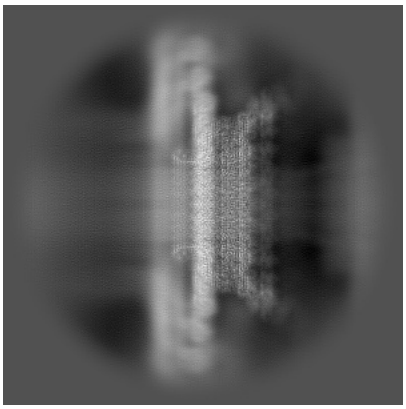
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

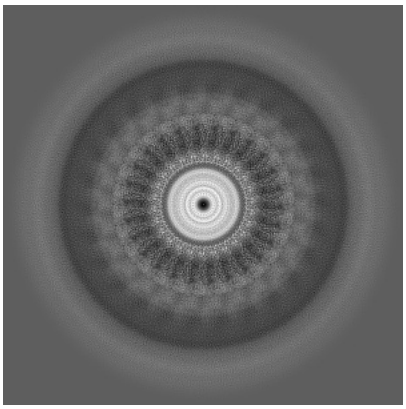
6.1.1 Primary map



X

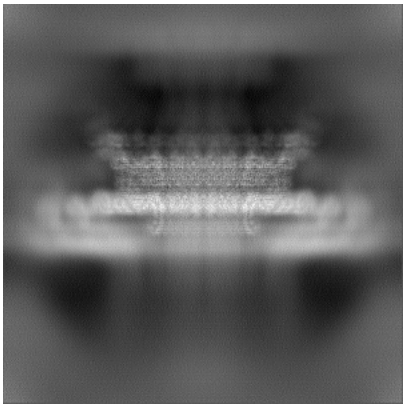


Y

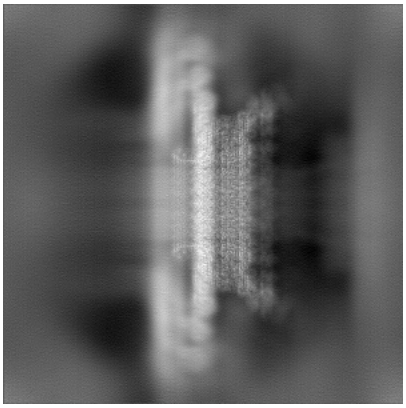


Z

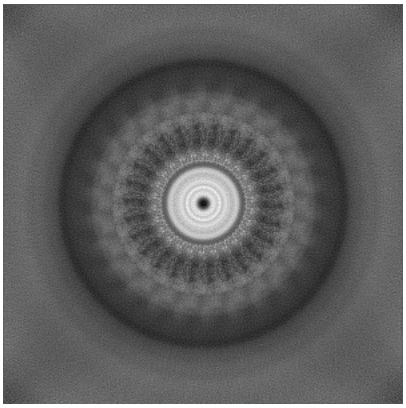
6.1.2 Raw map



X



Y

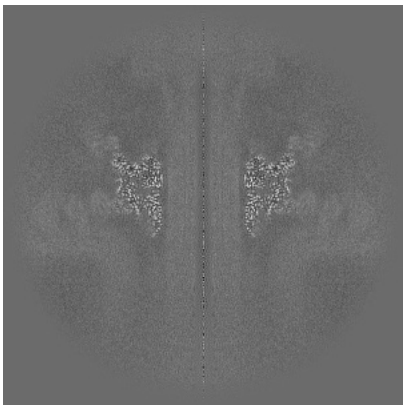


Z

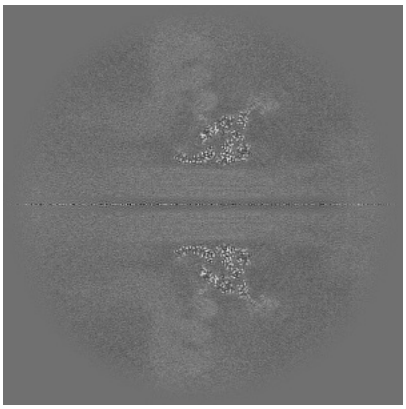
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

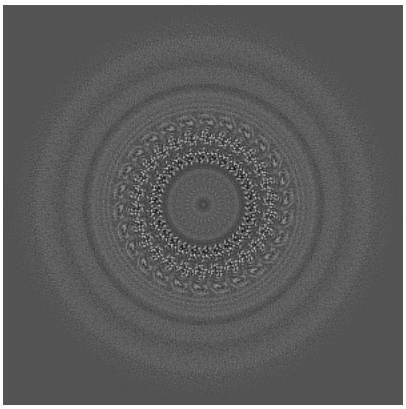
6.2.1 Primary map



X Index: 224

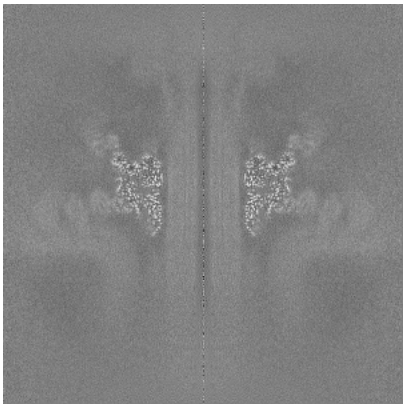


Y Index: 224

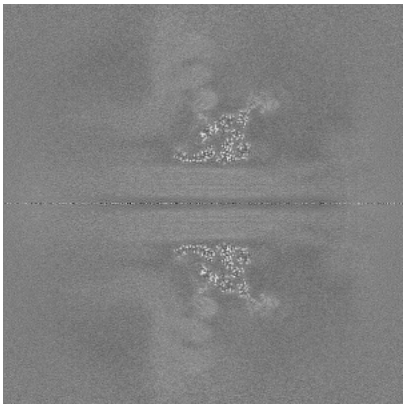


Z Index: 224

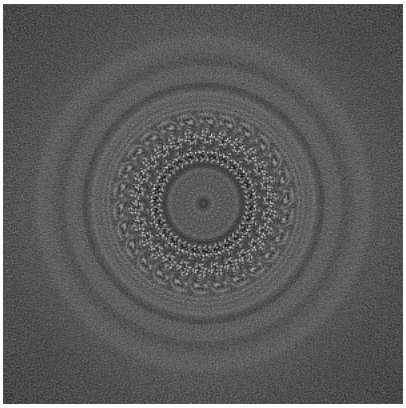
6.2.2 Raw map



X Index: 224



Y Index: 224

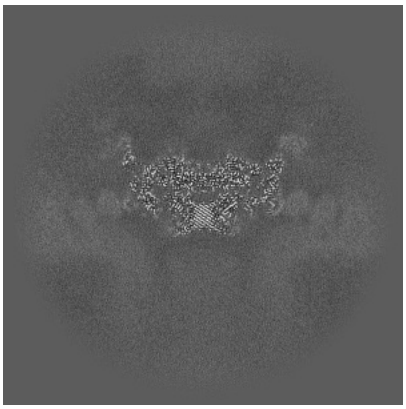


Z Index: 224

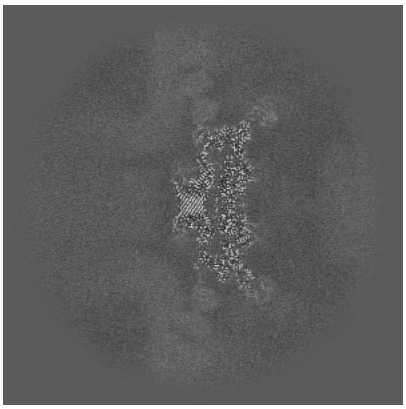
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

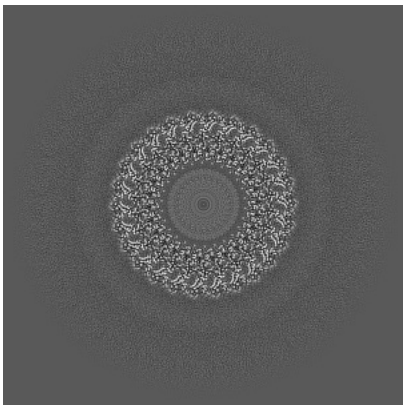
6.3.1 Primary map



X Index: 272

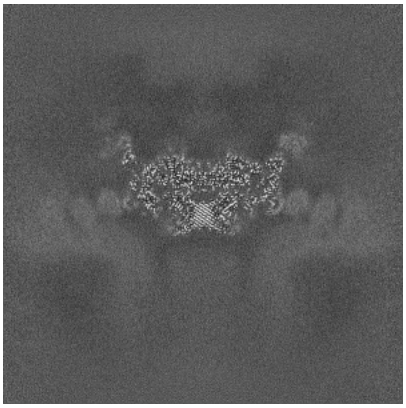


Y Index: 272

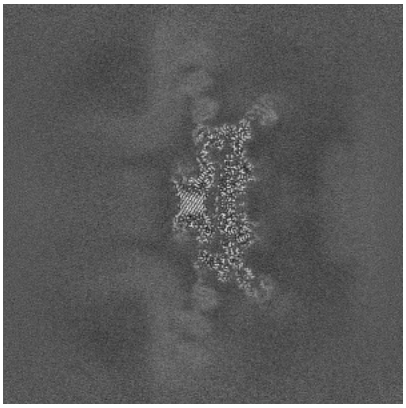


Z Index: 267

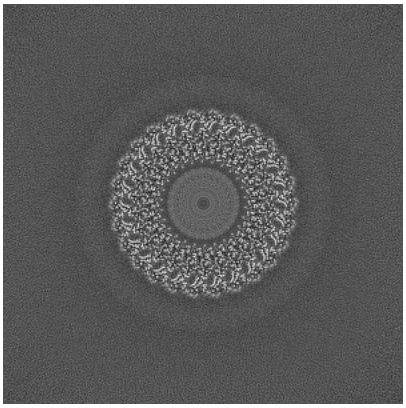
6.3.2 Raw map



X Index: 272



Y Index: 272

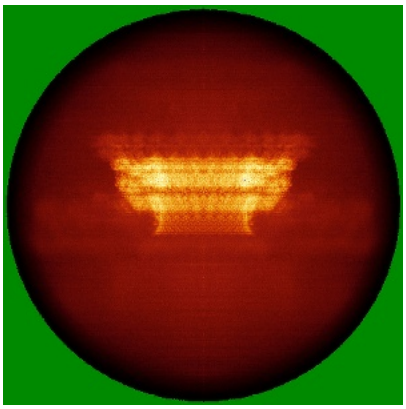


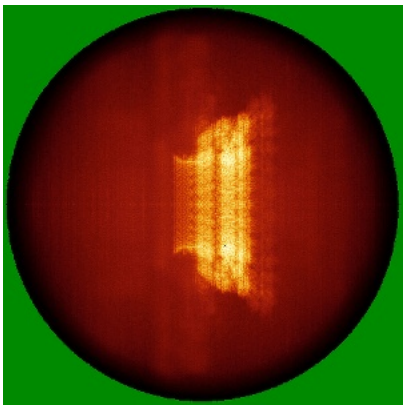
Z Index: 267

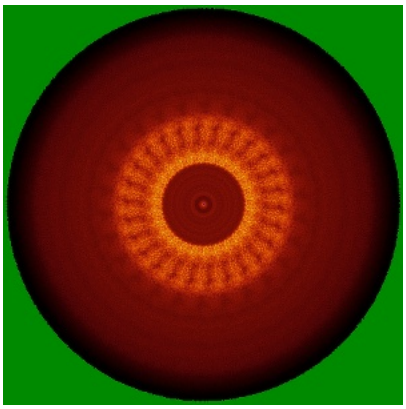
The images above show the largest variance slices of the map in three orthogonal directions.

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

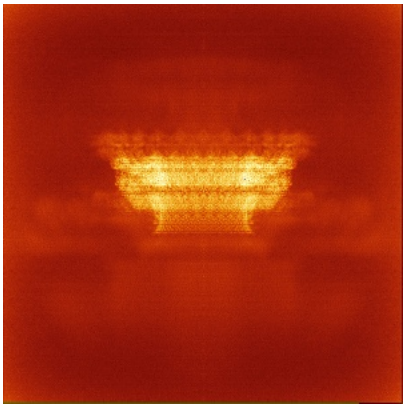
6.4.1 Primary map

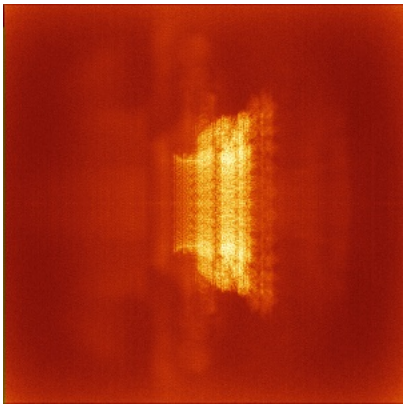

X

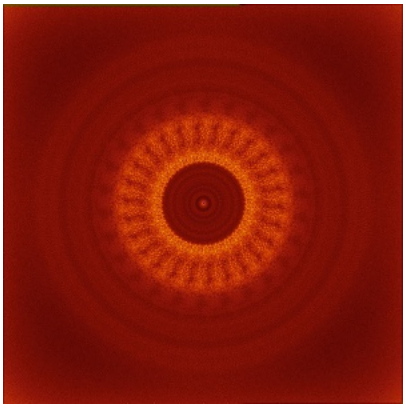

Y


Z

6.4.2 Raw map


X

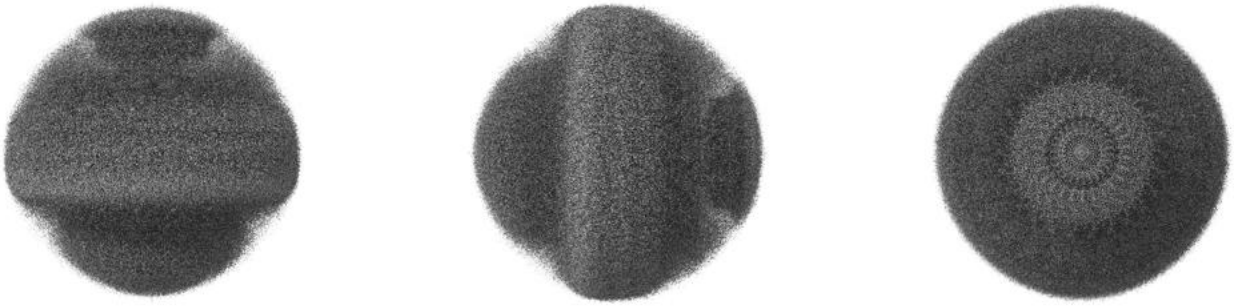

Y


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)

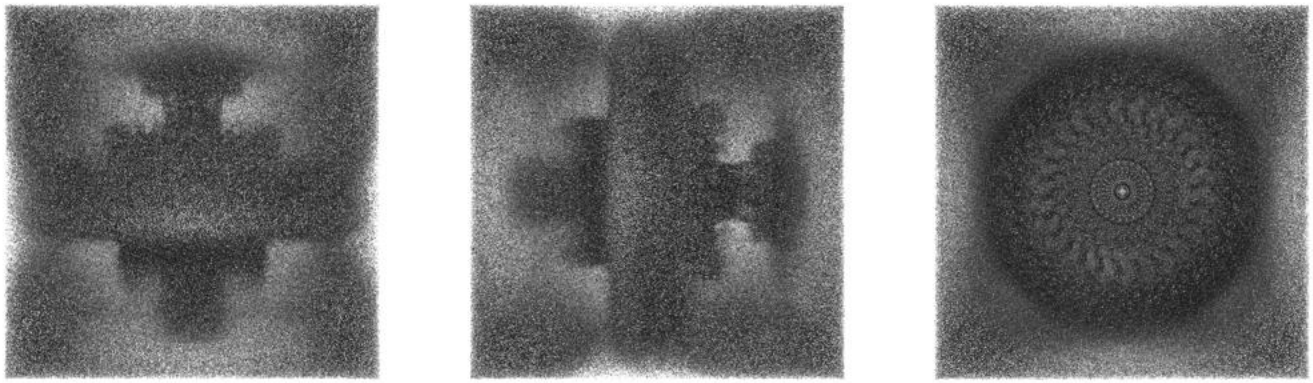
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.05. 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 shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

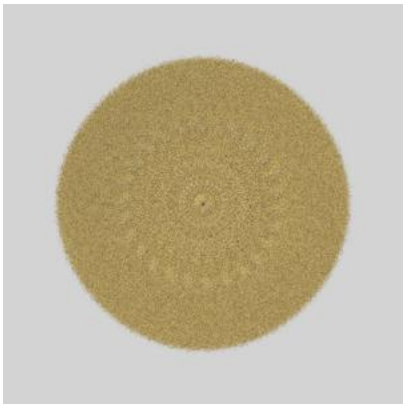
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

6.6.1 emd_72961_msk_1.map (i)

X

Y

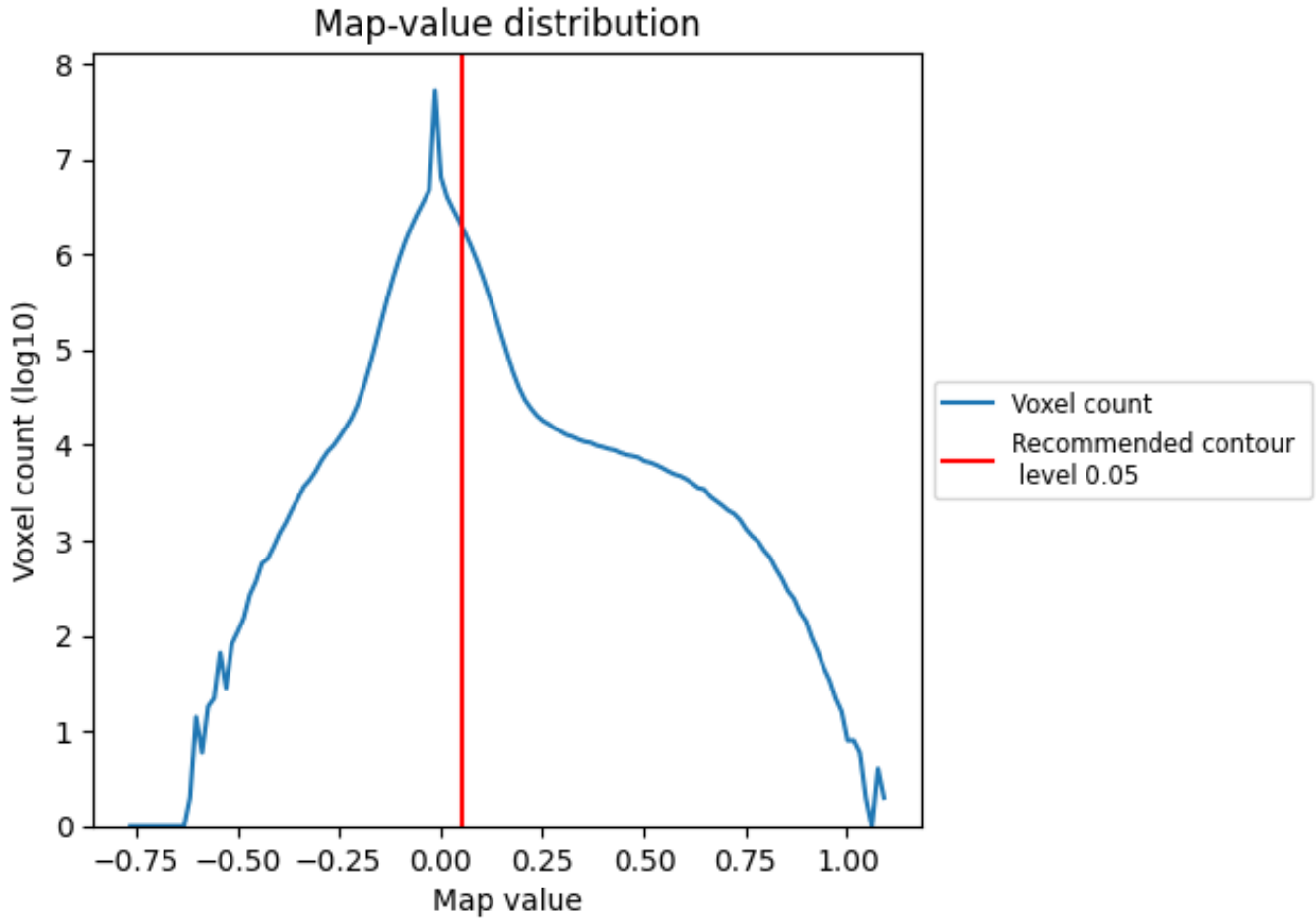


Z

7 Map analysis

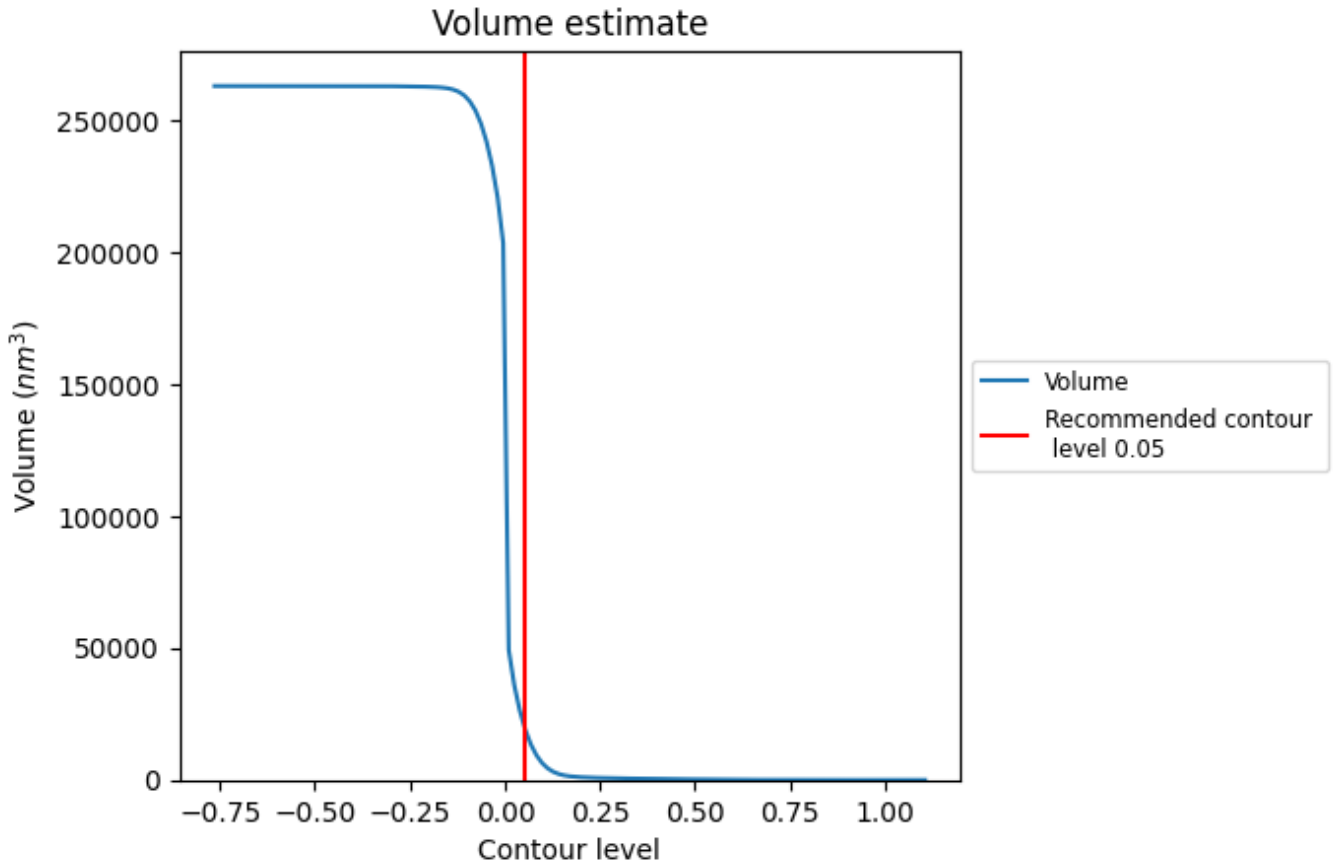
This section contains the results of statistical analysis of the map.

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.

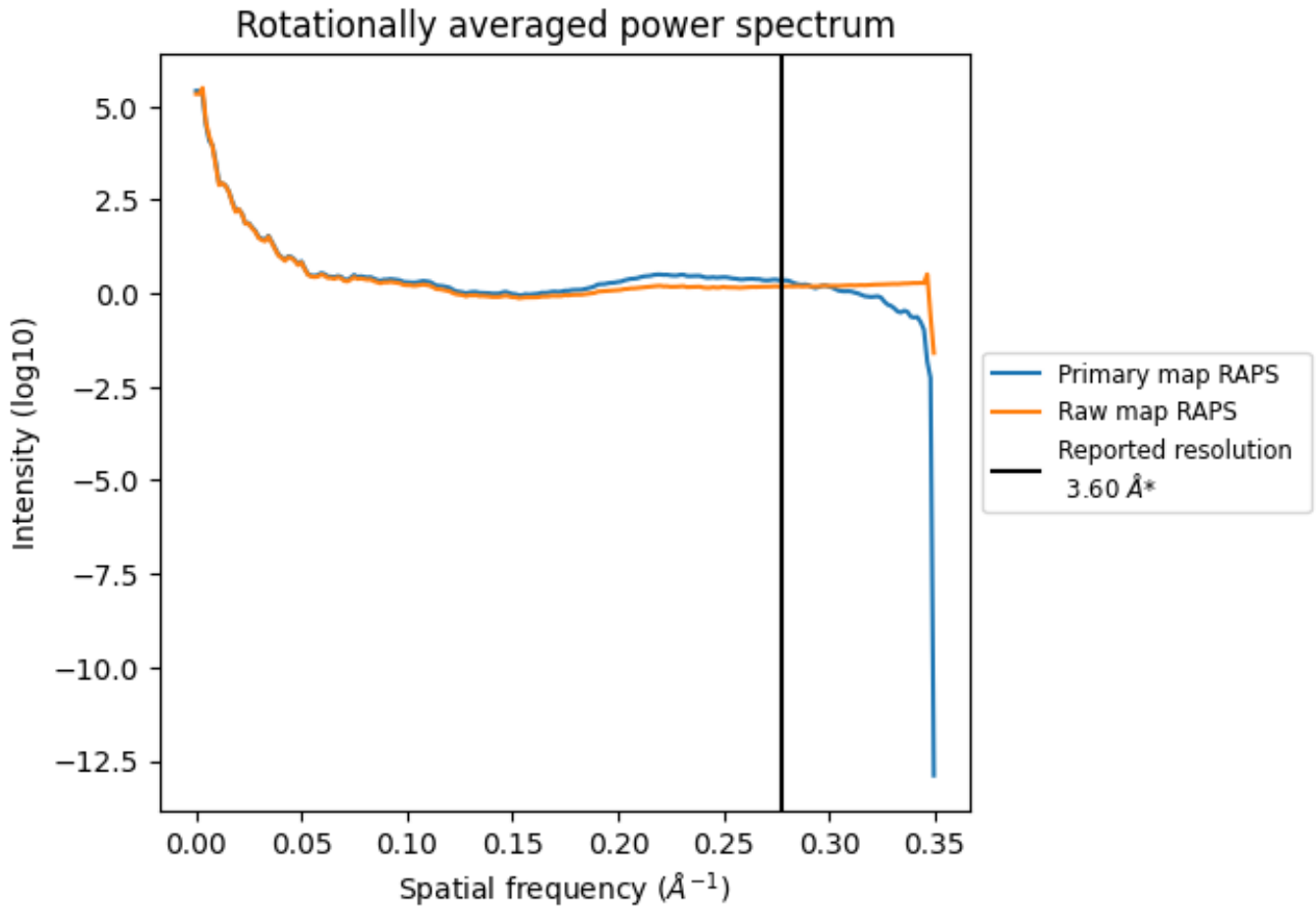
7.2 Volume estimate



The volume at the recommended contour level is 20850 nm^3; this corresponds to an approximate mass of 18834 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)

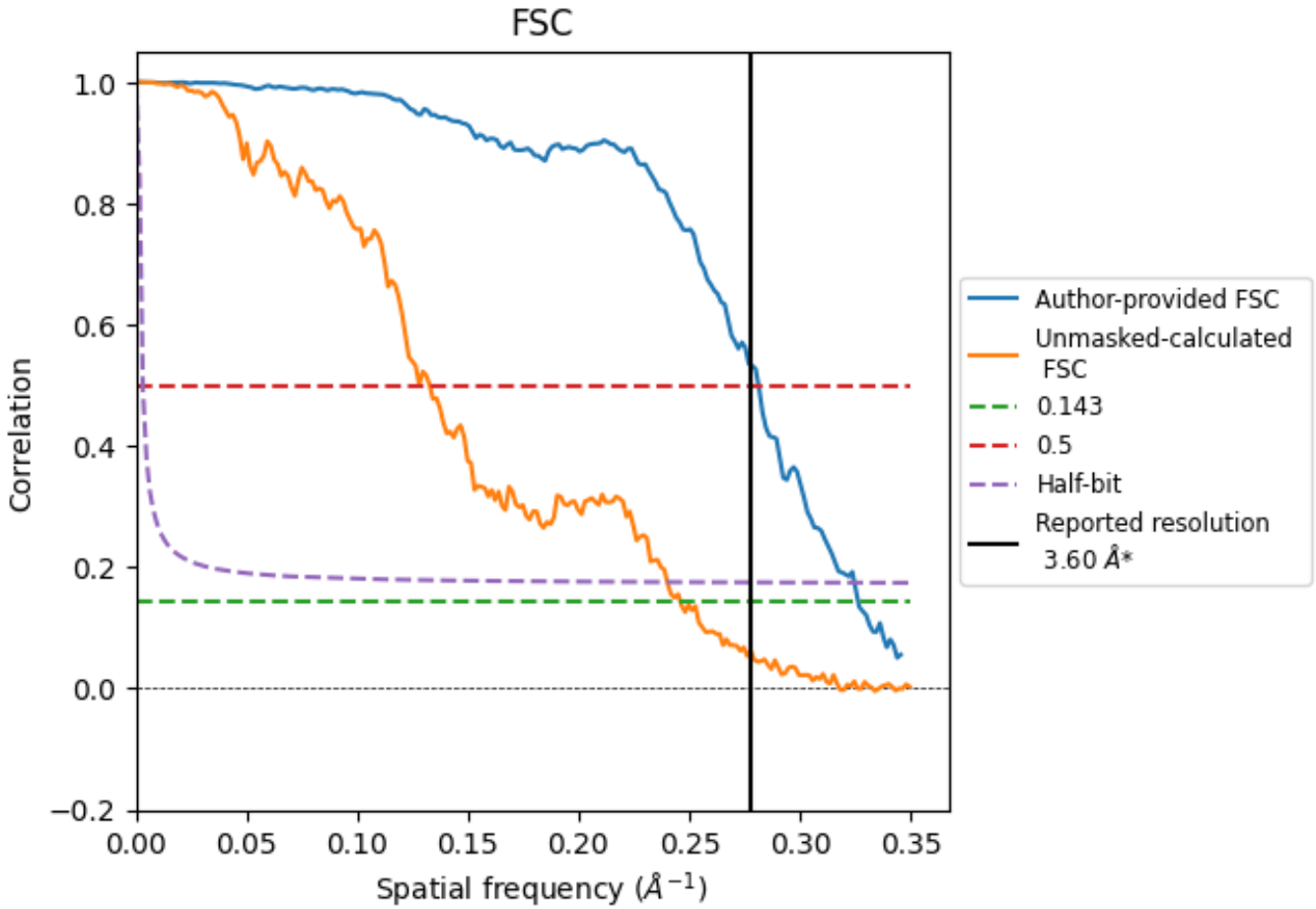


*Reported resolution corresponds to spatial frequency of 0.278 $Å^{-1}$

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 0.278 Å^{-1}

8.2 Resolution estimates (i)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.60	-	-
Author-provided FSC curve	3.06	3.55	3.08
Unmasked-calculated*	4.06	7.54	4.16

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 3.06 differs from the reported value 3.6 by more than 10 %

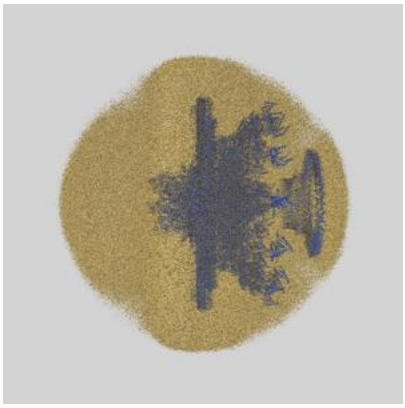
The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.06 differs from the reported value 3.6 by more than 10 %

9 Map-model fit

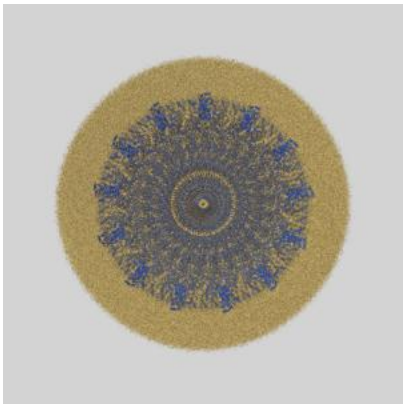
This section contains information regarding the fit between EMDB map EMD-72961 and PDB model 9YH6. Per-residue inclusion information can be found in section 3 on page 41.

9.1 Map-model overlay

X



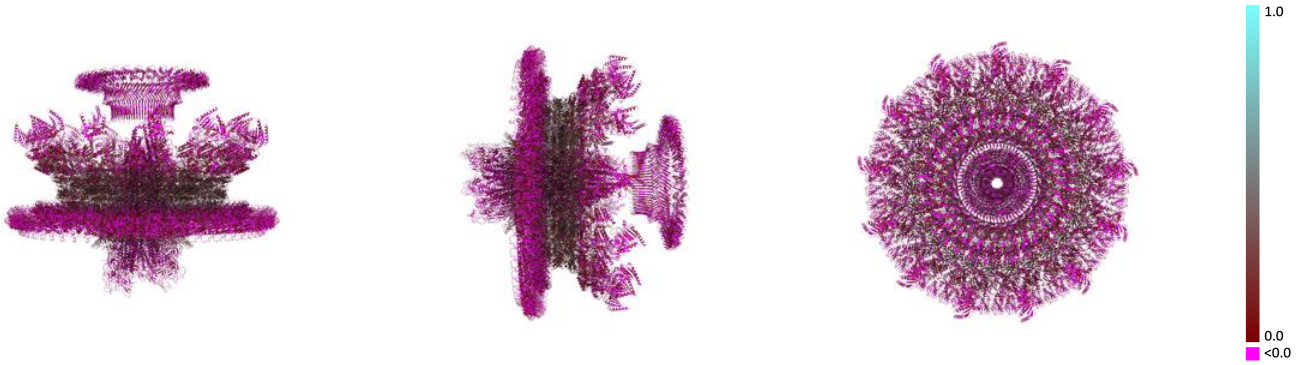
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.05 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

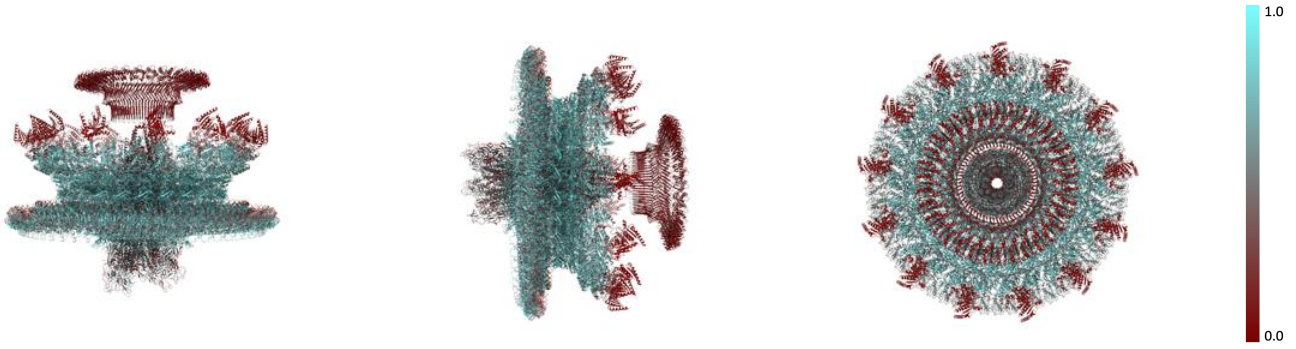
9.2 Q-score mapped to coordinate model (i)



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.

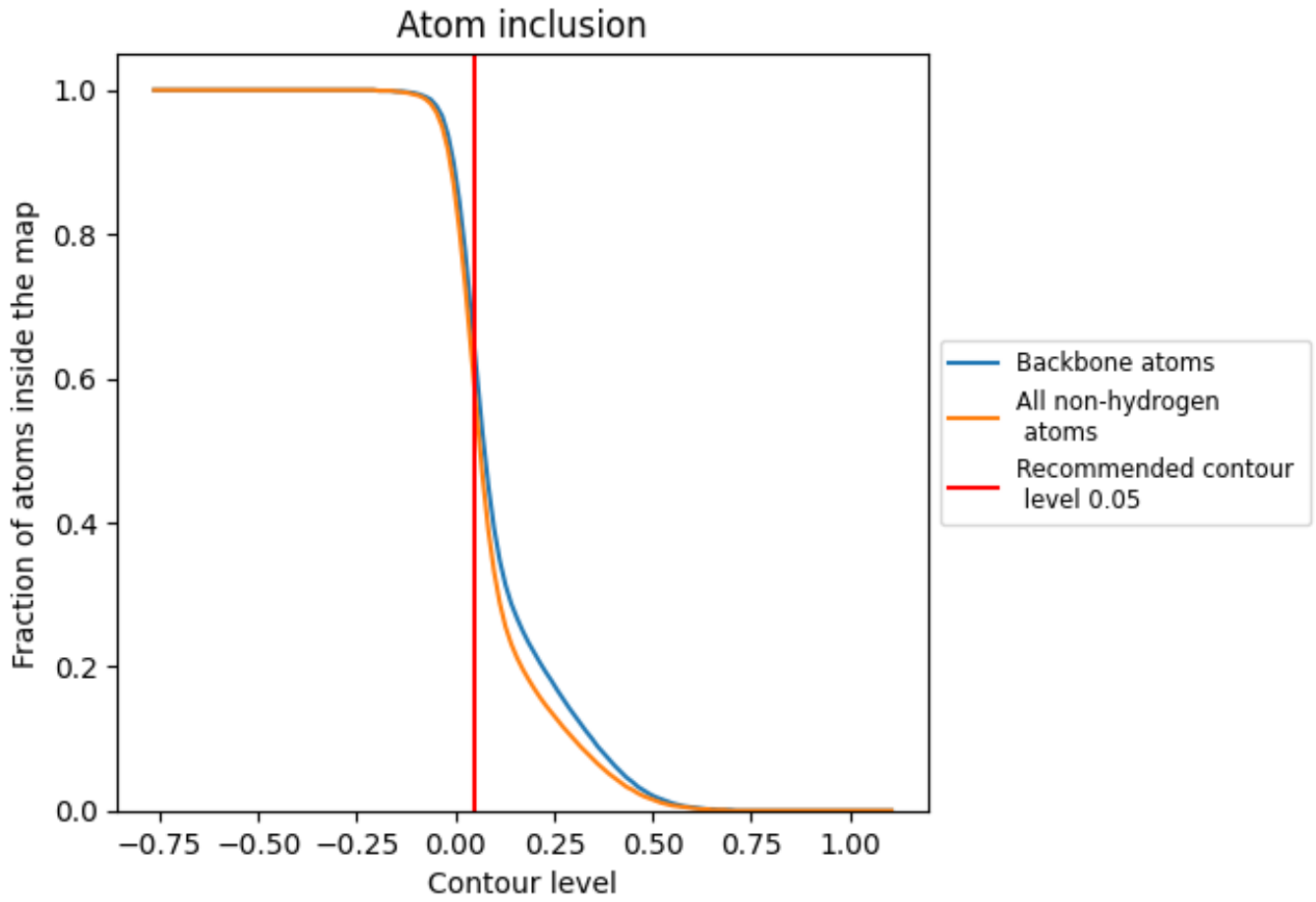
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.05).

9.4 Atom inclusion (i)



At the recommended contour level, 63% of all backbone atoms, 57% 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 (0.05) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5740	0.1060
Aa	0.4890	-0.0060
Ab	0.5100	-0.0140
Ac	0.5420	-0.0040
Ad	0.5530	0.0140
Ae	0.5440	0.0100
Af	0.5520	0.0260
Ag	0.4830	-0.0070
Ah	0.5550	0.0160
Ai	0.5660	0.0090
Aj	0.5860	0.0150
Ak	0.5410	0.0100
Al	0.5830	0.0180
Am	0.5300	0.0130
An	0.5090	-0.0060
Ao	0.5160	0.0070
Ap	0.4820	0.0120
Aq	0.5610	0.0160
Ar	0.4980	-0.0040
As	0.5660	0.0130
At	0.5240	0.0100
Au	0.5760	0.0210
Av	0.5230	-0.0050
Aw	0.5710	0.0130
Ax	0.5360	0.0070
Ay	0.4350	0.0130
Az	0.4450	-0.0070
Ba	0.3630	0.0130
Bb	0.4150	-0.0170
Bc	0.3260	0.0030
Bd	0.3230	-0.0290
Be	0.4390	0.0130
Bf	0.4480	0.0040
Bg	0.4020	0.0130
Bh	0.4340	0.0100

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
Bi	0.4390	0.0280
Bj	0.4360	0.0120
Bk	0.4200	-0.0000
Bl	0.4790	0.0150
Bm	0.4780	0.0150
Bn	0.4430	0.0130
Bo	0.4390	-0.0070
Bp	0.4130	0.0010
Bq	0.4930	0.0170
Br	0.4520	-0.0090
Bs	0.4440	0.0010
Bt	0.4620	-0.0040
Bu	0.4100	0.0020
Bv	0.3870	-0.0160
Bw	0.3820	-0.0050
Bx	0.7490	0.2340
By	0.7470	0.2440
Bz	0.7480	0.2470
Ca	0.7540	0.2540
Cb	0.7590	0.2590
Cc	0.7610	0.2600
Cd	0.7690	0.2710
Ce	0.7770	0.2730
Cf	0.7810	0.2680
Cg	0.7720	0.2690
Ch	0.7640	0.2640
Ci	0.7600	0.2640
Cj	0.7550	0.2590
Ck	0.7630	0.2560
Cl	0.7630	0.2550
Cm	0.7550	0.2530
Cn	0.7660	0.2510
Co	0.7630	0.2490
Cp	0.7690	0.2450
Cq	0.7580	0.2490
Cr	0.7570	0.2490
Cs	0.7570	0.2510
Ct	0.7460	0.2470
Cu	0.7450	0.2370
Cv	0.7370	0.2370
Cw	0.7420	0.2330
Cx	0.7790	0.2660

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
Cy	0.7710	0.2620
Cz	0.7810	0.2640
Da	0.7840	0.2630
Db	0.7780	0.2660
Dc	0.7890	0.2700
Dd	0.7900	0.2720
De	0.7920	0.2810
Df	0.7990	0.2800
Dg	0.7980	0.2810
Dh	0.7940	0.2790
Di	0.7950	0.2750
Dj	0.7840	0.2660
Dk	0.7890	0.2660
Dl	0.7900	0.2620
Dm	0.7850	0.2620
Dn	0.7850	0.2600
Do	0.7870	0.2690
Dp	0.7980	0.2720
Dq	0.8030	0.2790
Dr	0.8040	0.2800
Ds	0.8050	0.2850
Dt	0.8050	0.2890
Du	0.8000	0.2860
Dv	0.7940	0.2730
Dw	0.7890	0.2720
Dx	0.7660	0.2220
Dy	0.7400	0.2140
Dz	0.7640	0.2330
Ea	0.7510	0.2240
Eb	0.7550	0.2230
Ec	0.7630	0.2310
Ed	0.7600	0.2360
Ee	0.7640	0.2360
Ef	0.7730	0.2420
Eg	0.7800	0.2520
Eh	0.7890	0.2570
Ei	0.7930	0.2640
Ej	0.7920	0.2660
Ek	0.7990	0.2720
El	0.8000	0.2690
Em	0.7920	0.2630
En	0.7950	0.2590

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
Eo	0.7820	0.2490
Ep	0.7720	0.2360
Eq	0.7660	0.2260
Er	0.7720	0.2310
Es	0.7720	0.2230
Et	0.7600	0.2220
Eu	0.7630	0.2230
Ev	0.7740	0.2280
Ew	0.7720	0.2290
Ex	0.7390	0.1570
Ey	0.7550	0.1940
Ez	0.7300	0.1440
Fa	0.7570	0.1990
Fb	0.7310	0.1470
Fc	0.7720	0.2040
Fd	0.7340	0.1450
Fe	0.7810	0.2050
Ff	0.7400	0.1440
Fg	0.7650	0.1890
Fh	0.7310	0.1410
Fi	0.7540	0.1830
Fj	0.7410	0.1530
Fk	0.7450	0.1780
Fl	0.7570	0.1740
Fm	0.7480	0.1900
Fn	0.7630	0.2010
Fo	0.7560	0.2040
Fp	0.7780	0.2250
Fq	0.7560	0.2070
Fr	0.7780	0.2220
Fs	0.7480	0.2020
Ft	0.7610	0.2050
Fu	0.7540	0.1930
Fv	0.7550	0.1800
Fw	0.7540	0.1910
Fx	0.6030	0.0760
Fy	0.5880	0.0850
Fz	0.5760	0.0610
Ga	0.5650	0.0670
Gb	0.5600	0.0560
Gc	0.5610	0.0590
Gd	0.5520	0.0560

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
Ge	0.5660	0.0630
Gf	0.5590	0.0630
Gg	0.5700	0.0680
Gh	0.5720	0.0780
Gi	0.5840	0.0860
Gj	0.5940	0.0970
Gk	0.6210	0.0970
Gl	0.6210	0.1170
Gm	0.6280	0.1050
Gn	0.6510	0.1470
Go	0.6350	0.1340
Gp	0.6560	0.1560
Gq	0.6490	0.1390
Gr	0.6570	0.1530
Gs	0.6330	0.1370
Gt	0.6530	0.1350
Gu	0.6150	0.1200
Gv	0.6150	0.1080
Gw	0.5920	0.0990
Gx	0.6210	0.0940
Gy	0.5830	0.1370
Gz	0.6120	0.1200
Ha	0.5530	0.0880
Hb	0.5920	0.0740
Hc	0.5730	0.0880
Hd	0.5630	0.0790
He	0.5340	0.0870
Hf	0.5730	0.1070
Hg	0.5920	0.0880
Hh	0.6500	0.1260
Hi	0.6120	0.1340
Hj	0.6410	0.1160
Hk	0.6120	0.0900
Hl	0.6500	0.0950
Hm	0.6600	0.0980
Hn	0.6600	0.1050
Ho	0.6500	0.0970
Hp	0.6600	0.1590
Hq	0.6600	0.0980
Hr	0.6410	0.0930
Hs	0.6700	0.1200
Ht	0.6120	0.1140

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
Hu	0.6310	0.1250
Hv	0.6500	0.0970
Hw	0.6120	0.1100
Hx	0.8160	0.2100
Hy	0.7770	0.2090
Hz	0.7480	0.1790
Ia	0.7670	0.1640
Ib	0.7770	0.1500
Ic	0.7860	0.1650
Id	0.7380	0.1530
Ie	0.7280	0.1530
If	0.7380	0.1300
Ig	0.7570	0.2100
Ih	0.7380	0.1910
Ii	0.7570	0.1870
Ij	0.7570	0.1940
Ik	0.7480	0.1660
Il	0.7770	0.1740
Im	0.7180	0.1120
In	0.6890	0.0880
Io	0.7180	0.1240
Ip	0.6990	0.1470
Iq	0.7770	0.2030
Ir	0.6890	0.1460
Is	0.7670	0.1770
It	0.7380	0.1690
Iu	0.7770	0.2470
Iv	0.7860	0.2490
Iw	0.7960	0.2740
Ix	0.0550	-0.0110
Iy	0.0820	0.0160
Iz	0.0610	-0.0040
Ja	0.0910	0.0230
Jb	0.0720	-0.0150
Jc	0.0780	0.0040
Jd	0.0800	-0.0010
Je	0.0820	0.0090
Jf	0.0680	0.0020
Jg	0.0810	0.0110
Jh	0.0590	0.0150
Ji	0.0710	-0.0010
Jj	0.0590	0.0110

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
Jk	0.0620	-0.0090
Jl	0.0570	0.0090
Jm	0.0610	-0.0040
Jn	0.0540	0.0030
Jo	0.0690	-0.0070
Jp	0.0620	0.0110
Jq	0.0750	0.0010
Jr	0.0570	0.0040
Js	0.0880	0.0150
Jt	0.0540	-0.0010
Ju	0.0820	0.0250
Jv	0.0610	-0.0190
Jw	0.0780	0.0100
Jx	0.6240	0.0080
Jy	0.6340	0.0330
Jz	0.5960	0.0070
Ka	0.6440	0.0290
Kb	0.6340	0.0100
Kc	0.6500	0.0480
Kd	0.6190	-0.0140
Ke	0.6500	0.0180
Kf	0.6450	0.0080
Kg	0.6330	0.0120
Kh	0.6550	0.0430
Ki	0.6600	0.0310
Kj	0.6440	0.0200
Kk	0.6240	-0.0000
Kl	0.6450	0.0350
Km	0.6590	0.0100
Kn	0.6520	0.0330
Ko	0.6380	0.0150
Kp	0.6620	0.0080
Kq	0.6600	0.0300
Kr	0.6380	0.0130
Ks	0.6280	0.0010
Kt	0.6360	0.0110
Ku	0.6350	0.0210
Kv	0.6720	0.0190
Kw	0.6350	0.0200
Kx	0.6450	0.0140
Ky	0.6460	0.0180
Kz	0.6400	0.0200

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
La	0.6330	-0.0030
Lb	0.6200	0.0070
Lc	0.6240	-0.0060
Ld	0.6400	0.0320
Le	0.6600	0.0390
Lf	0.6240	-0.0130
Lg	0.6340	0.0010
Lh	0.6210	-0.0060
Li	0.6300	-0.0080
Lj	0.5930	-0.0090
Lk	0.6390	0.0360
Ll	0.5900	-0.0090
Lm	0.6340	0.0120
Ln	0.6250	0.0170
Lo	0.6390	0.0320
Lp	0.6210	-0.0060
Lq	0.6100	-0.0190
Lr	0.6330	0.0190
Ls	0.6340	0.0280
Lt	0.6160	0.0030
Lu	0.5940	-0.0060
Lv	0.5860	-0.0170
Lw	0.5860	-0.0230
Lx	0.6200	0.0090
Ly	0.6360	0.0180
Lz	0.6040	0.0010
Ma	0.6250	0.0230
Mb	0.5870	-0.0160
Mc	0.6200	-0.0100
Md	0.4850	0.0090
Me	0.5050	-0.0010
Mf	0.4950	0.0060
Mg	0.4840	-0.0070
Mh	0.5060	0.0240
Mi	0.4930	0.0000
Mj	0.4980	-0.0090
Mk	0.4990	0.0130
Ml	0.4940	-0.0000
Mm	0.4890	-0.0030
Mn	0.4930	0.0120
Mo	0.4800	-0.0080
Mp	0.4980	0.0150

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
Mq	0.4780	-0.0100
Mr	0.4980	0.0100
Ms	0.4710	-0.0060
Mt	0.4790	-0.0050
Mu	0.4700	-0.0060
Mv	0.4930	0.0100
Mw	0.5060	0.0040
Mx	0.4840	0.0070
My	0.4870	-0.0030
Mz	0.4860	-0.0080
Na	0.5070	0.0080
Nb	0.4710	-0.0160
Nc	0.4770	-0.0020
Nd	0.4870	0.0020
Ne	0.4930	0.0160
Nf	0.4940	0.0020
Ng	0.5140	0.0380
Nh	0.4870	0.0040
Ni	0.5040	0.0090
Nj	0.4870	0.0100
Nk	0.4630	-0.0180
Nl	0.5060	0.0150
Nm	0.5010	0.0130
Nn	0.5010	0.0150
No	0.5090	0.0320
Np	0.5100	0.0170
Nq	0.4760	-0.0110
Nr	0.5060	0.0080
Ns	0.4900	-0.0090
Nt	0.5090	0.0200
Nu	0.5080	0.0040
Nv	0.4790	-0.0100
Nw	0.5070	0.0240
Nx	0.4770	0.0040
Ny	0.4970	0.0050
Nz	0.4910	0.0040
Oa	0.4730	-0.0120
Ob	0.4940	0.0080
Oc	0.4800	-0.0030
Od	0.4860	-0.0040
Oe	0.4950	-0.0270
Of	0.5100	0.0270

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
Og	0.4800	-0.0090
Oh	0.5000	0.0130
Oi	0.4790	0.0190
Oj	0.1380	0.0270
Ok	0.1460	0.0340
Ol	0.1160	-0.0100
Om	0.1140	0.0070
On	0.1210	-0.0100
Oo	0.1290	0.0240
Op	0.1320	0.0260
Oq	0.1250	0.0070
Or	0.1020	-0.0070
Os	0.1130	-0.0100
Ot	0.1280	0.0140
Ou	0.1140	0.0040
Ov	0.1030	-0.0040
Ow	0.1230	0.0040
Ox	0.1250	0.0090
Oy	0.1330	0.0100
Oz	0.1320	0.0110
Pa	0.1080	-0.0180
Pb	0.1110	-0.0130
Pc	0.1190	0.0150
Pd	0.1210	0.0220
Pe	0.1190	-0.0130
Pf	0.0950	-0.0170
Pg	0.1170	0.0210
Ph	0.1340	0.0170
Pi	0.1080	-0.0110
Pj	0.1220	0.0080
Pk	0.1340	-0.0150
Pl	0.1140	-0.0100
Pm	0.1140	-0.0090
Pn	0.1250	0.0000
Po	0.1270	0.0080
Pp	0.1100	-0.0170
Pq	0.1170	0.0110