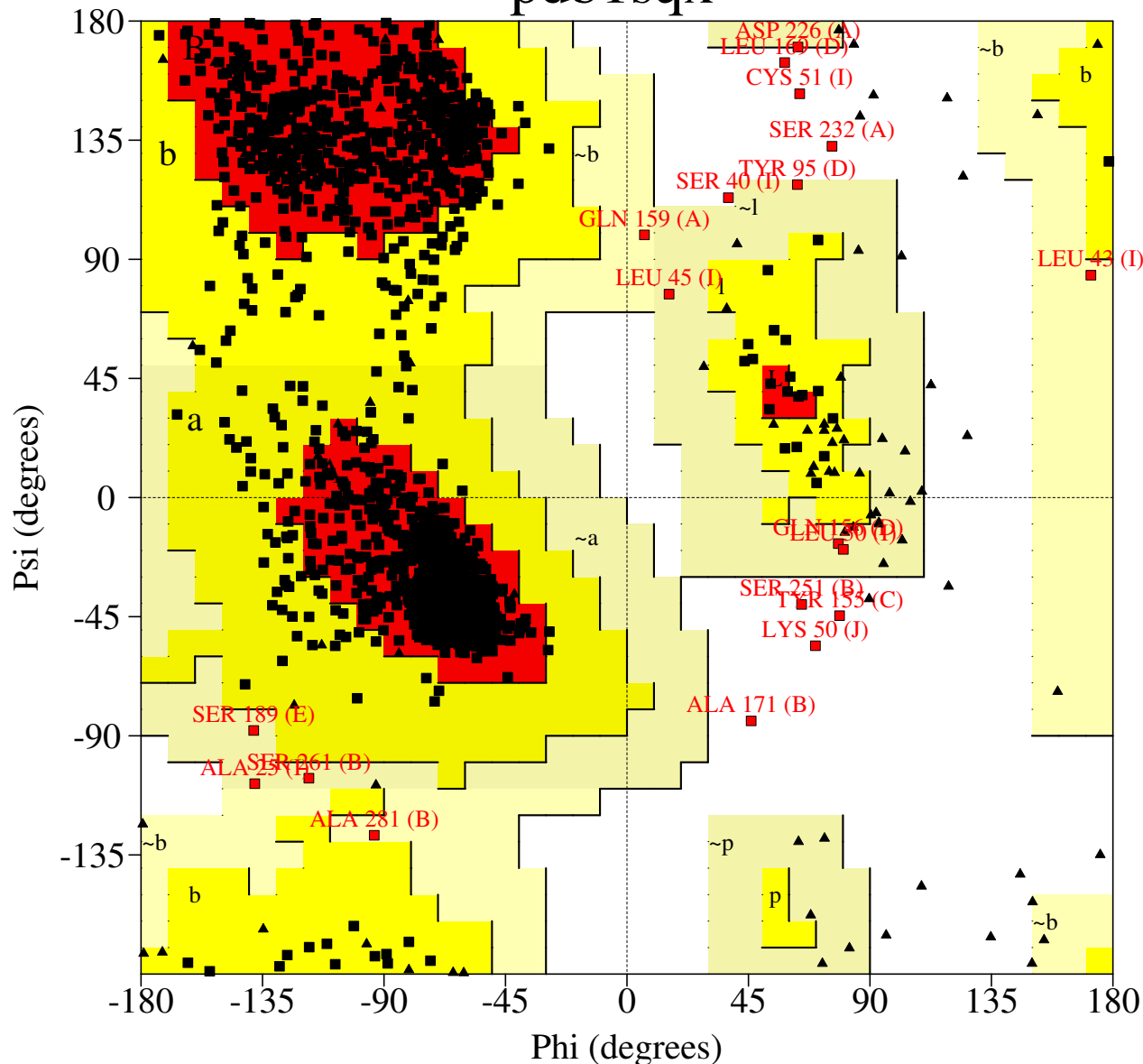


Ramachandran Plot

pdb1sqx



Plot statistics

Residues in most favoured regions [A,B,L]	1654	90.2%
Residues in additional allowed regions [a,b,l,p]	160	8.7%
Residues in generously allowed regions [-a,-b,-l,-p]	11	0.6%
Residues in disallowed regions	8	0.4%

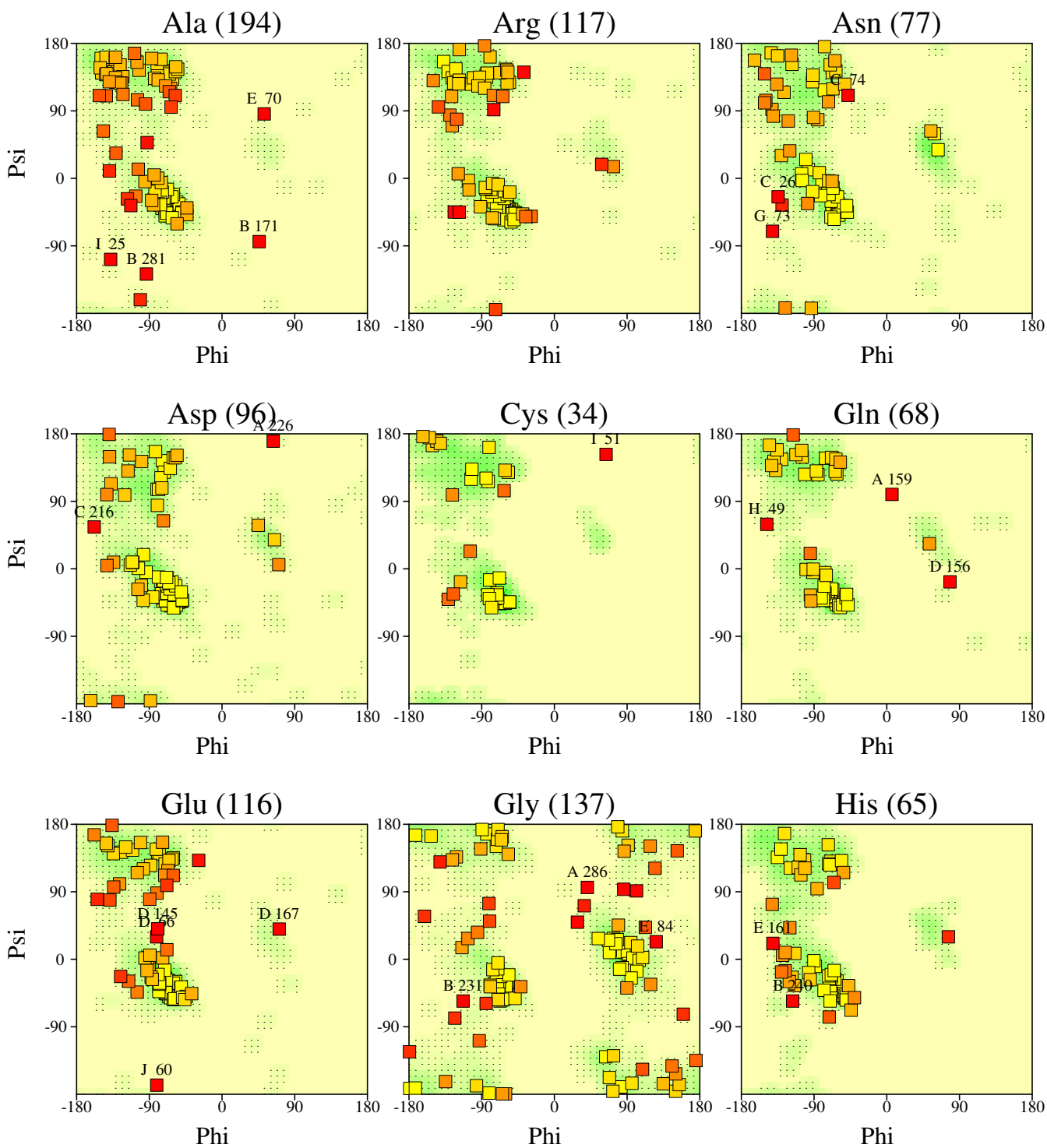
Number of non-glycine and non-proline residues	1833	100.0%
Number of end-residues (excl. Gly and Pro)	19	
Number of glycine residues (shown as triangles)	140	
Number of proline residues	109	

Total number of residues	2101	

Based on an analysis of 118 structures of resolution of at least 2.0 Angstroms and R-factor no greater than 20%, a good quality model would be expected to have over 90% in the most favoured regions.

Ramachandran plots for all residue types

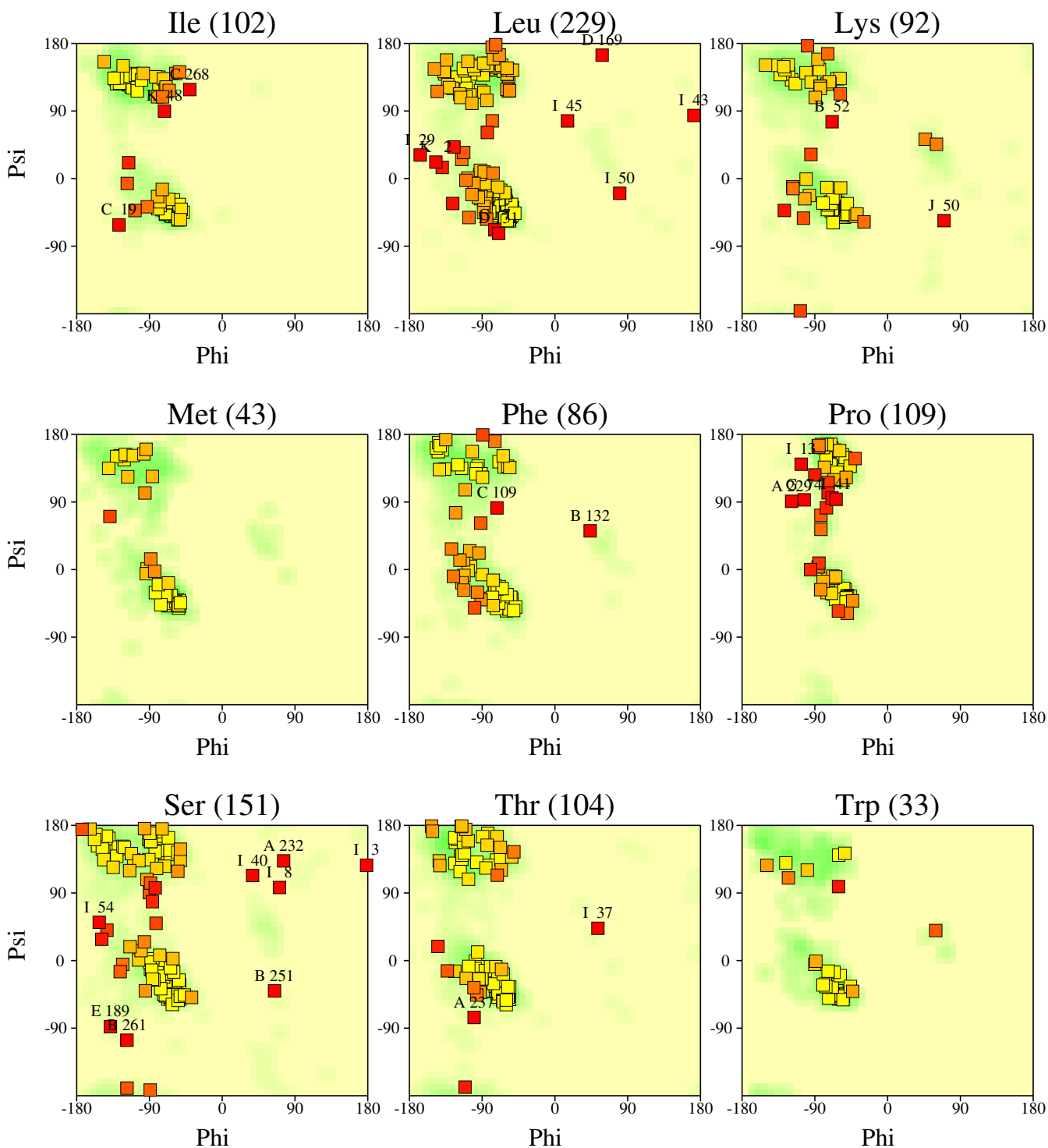
pdb1sqx



Numbers of residues are shown in brackets. Those in unfavourable conformations (score < -3.00) are labelled. Shading shows favourable conformations as obtained from an analysis of 163 structures at resolution 2.0A or better.

Ramachandran plots for all residue types

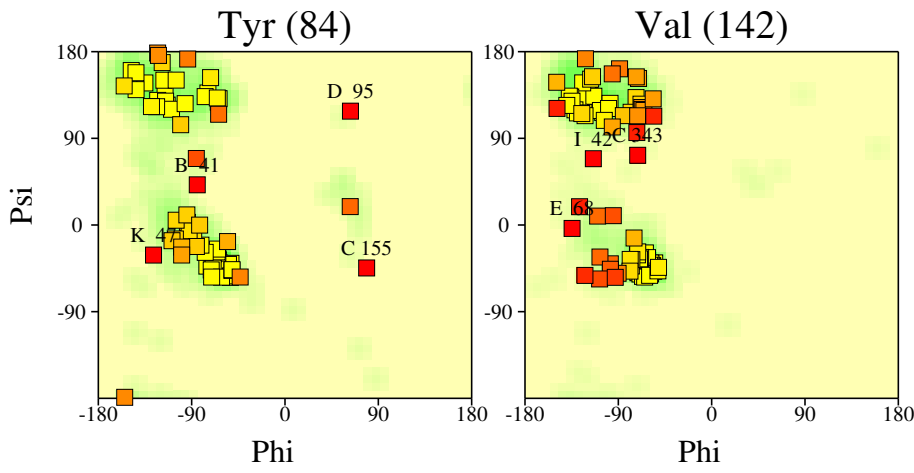
pdb1sqx



Numbers of residues are shown in brackets. Those in unfavourable conformations (score < -3.00) are labelled. Shading shows favourable conformations as obtained from an analysis of 163 structures at resolution 2.0A or better.

Ramachandran plots for all residue types

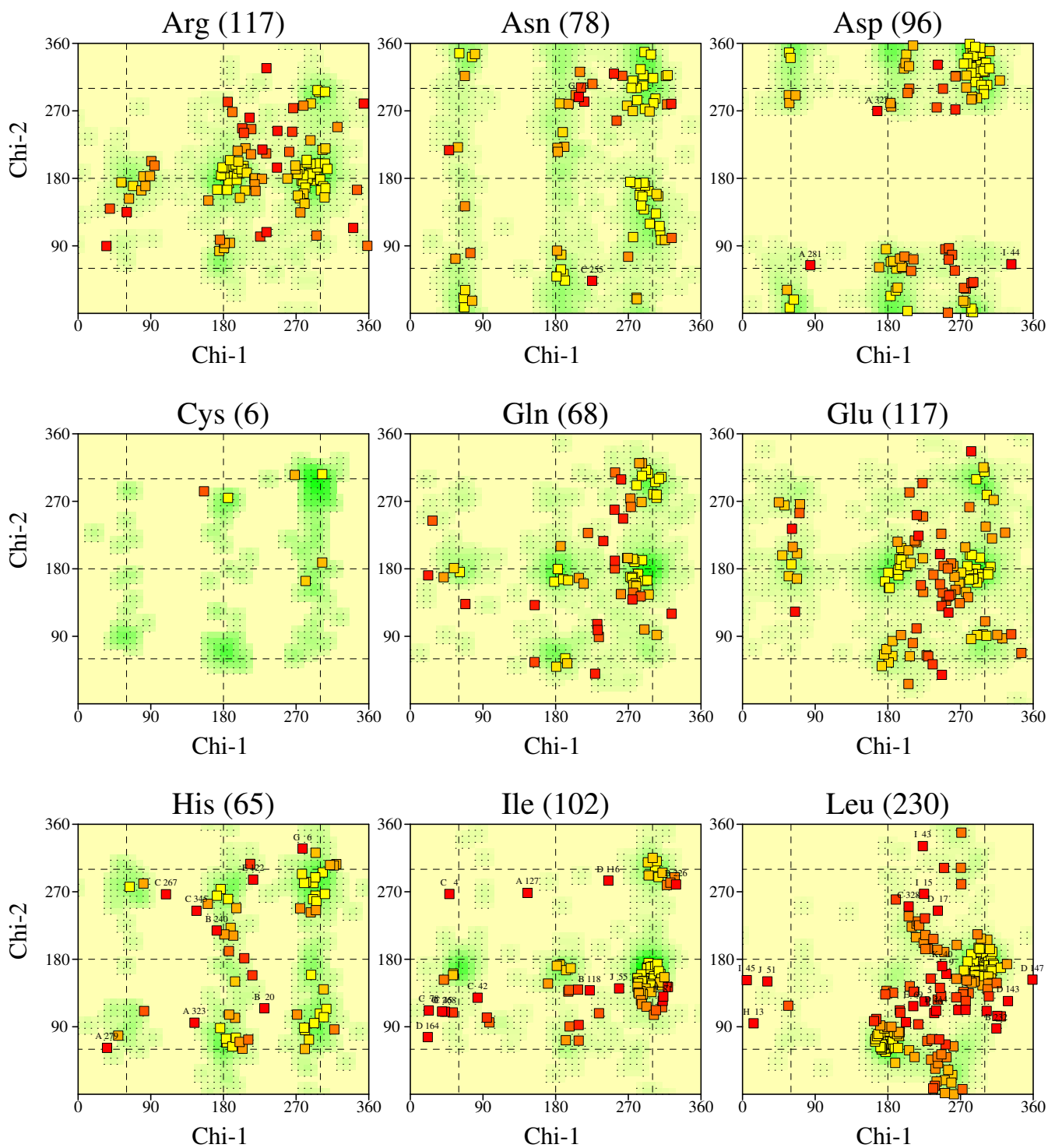
pdb1sqx



Numbers of residues are shown in brackets. Those in unfavourable conformations (score < -3.00) are labelled. Shading shows favourable conformations as obtained from an analysis of 163 structures at resolution 2.0A or better.

Chi1-Chi2 plots

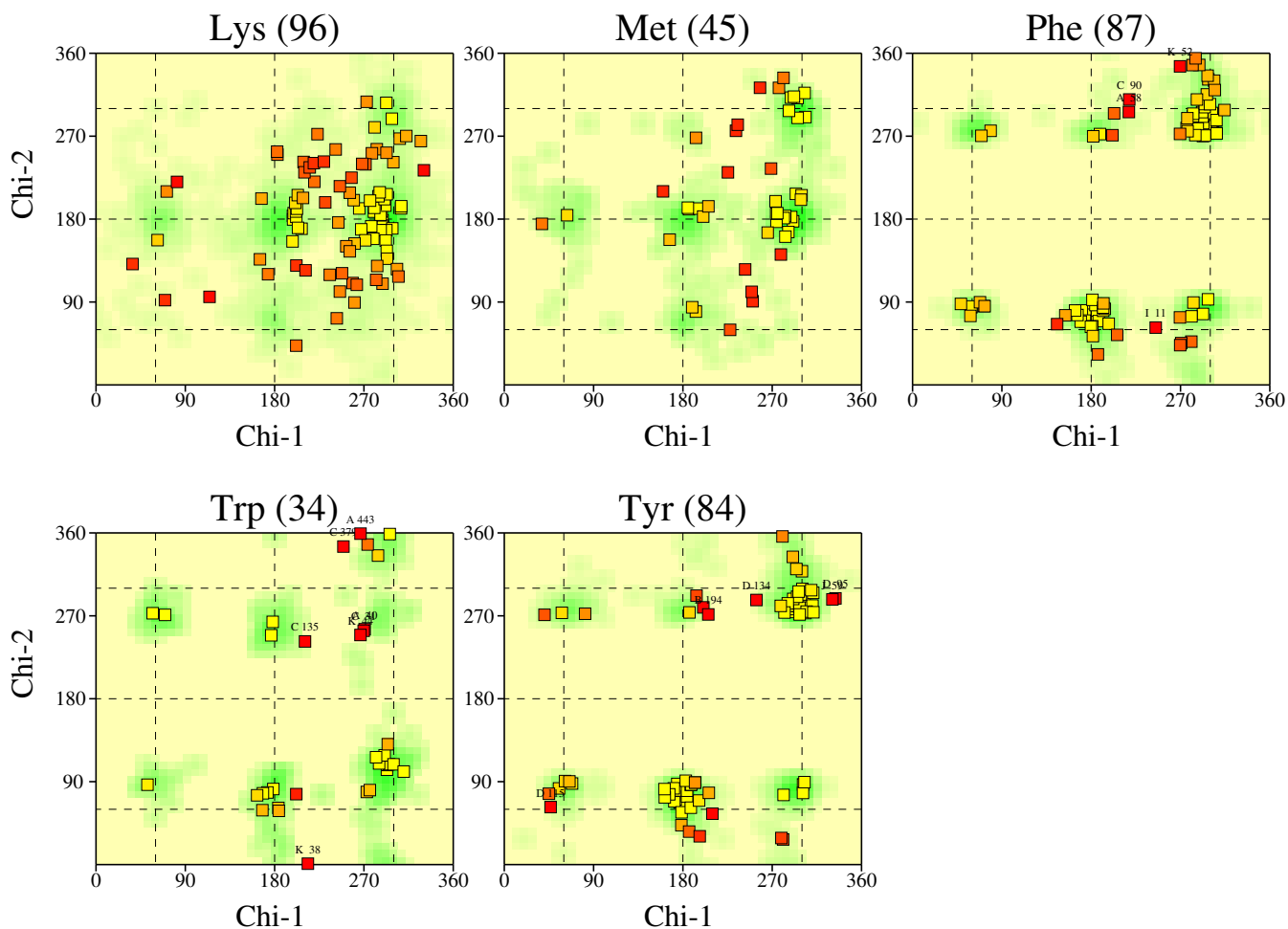
pdb1sqx



Numbers of residues are shown in brackets. Those in unfavourable conformations (score < -3.00) are labelled. Shading shows favourable conformations as obtained from an analysis of 163 structures at resolution 2.0A or better.

Chi1-Chi2 plots

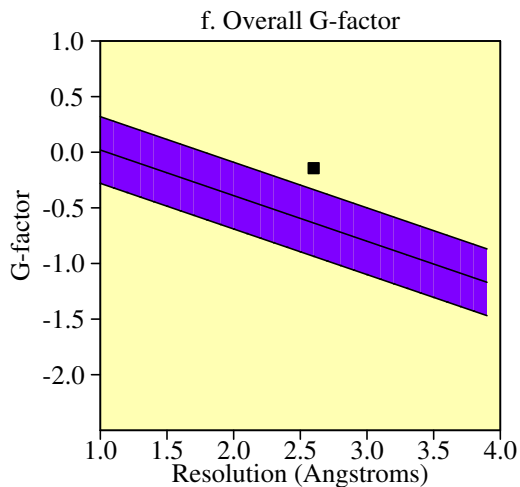
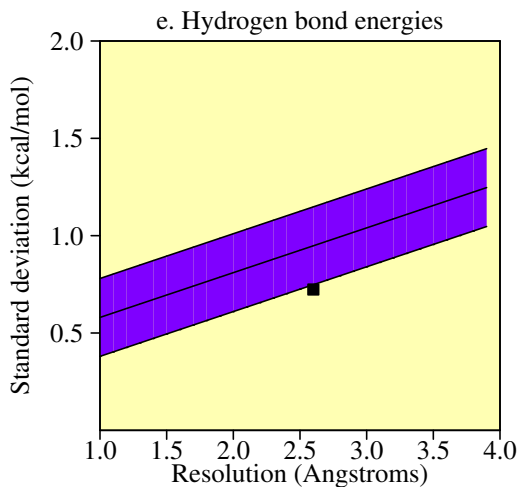
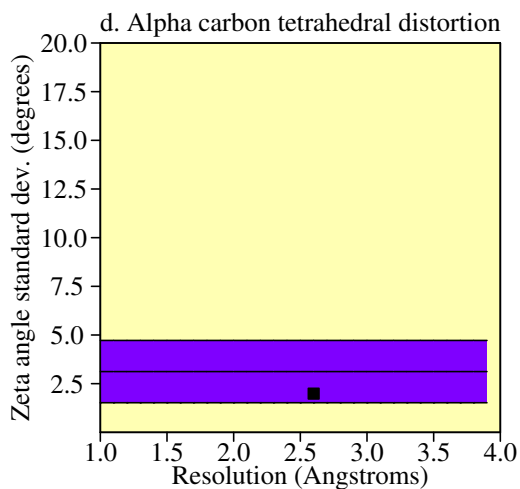
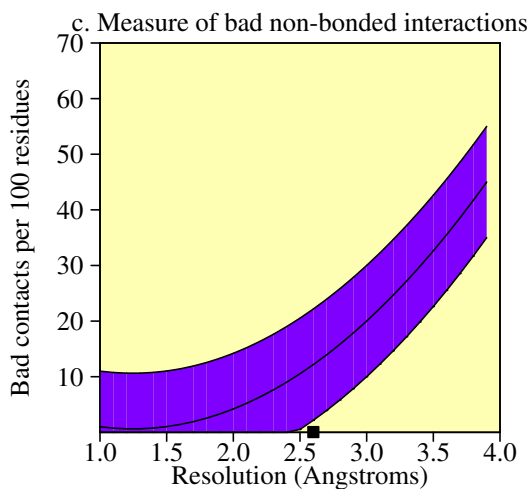
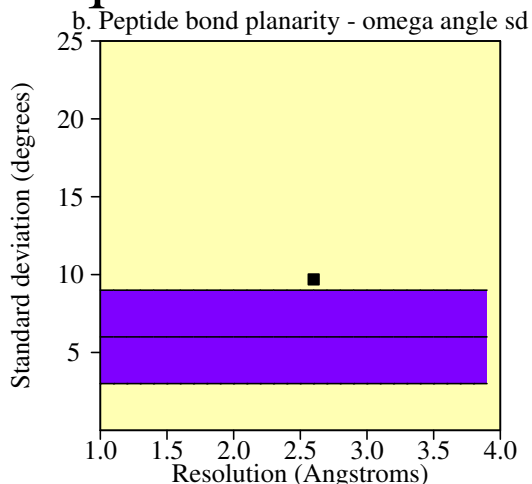
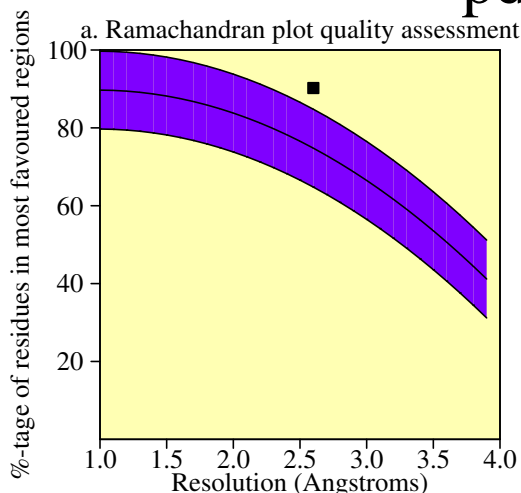
pdb1sqx



Numbers of residues are shown in brackets. Those in unfavourable conformations (score < -3.00) are labelled. Shading shows favourable conformations as obtained from an analysis of 163 structures at resolution 2.0A or better.

Main-chain parameters

pdb1sqx

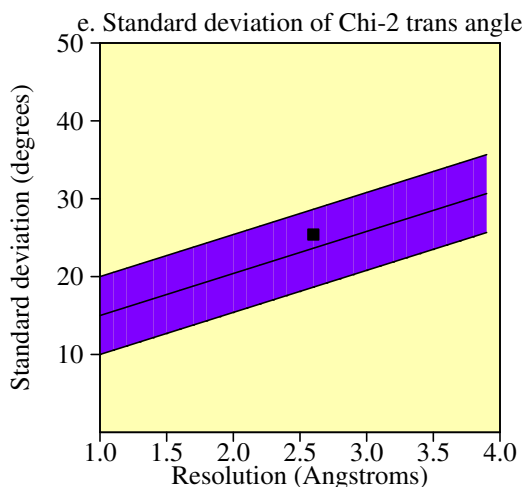
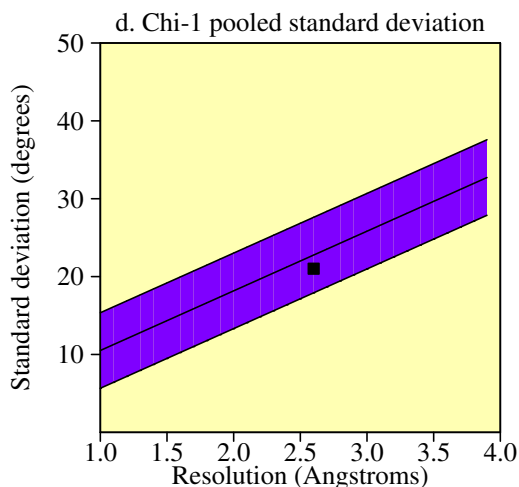
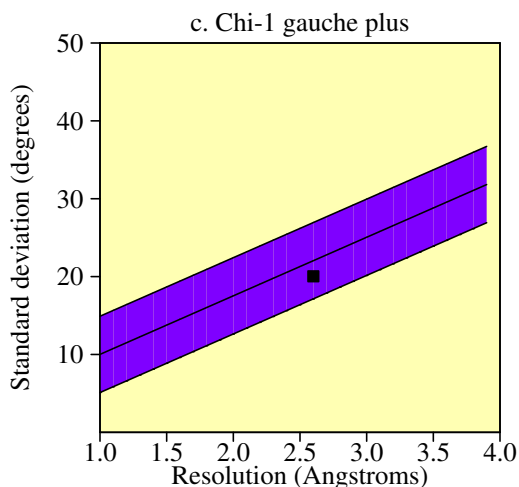
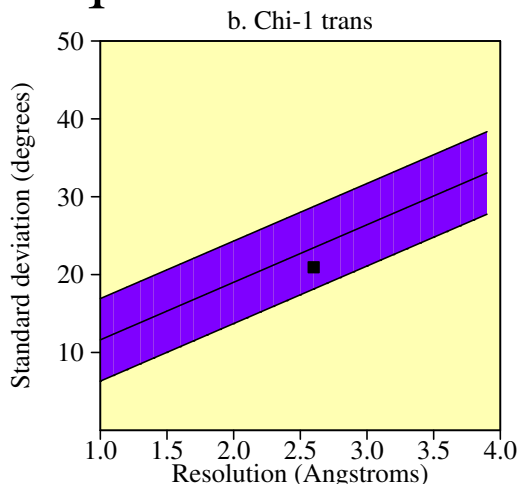
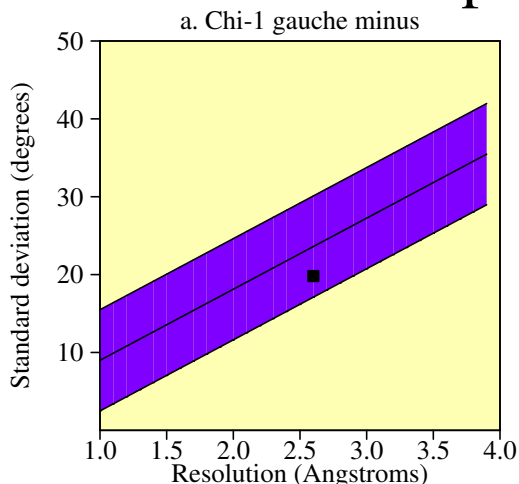


Plot statistics

Stereochemical parameter	No. of data pts	Parameter value	Comparison values		No. of band widths from mean	
			Typical value	Band width		
a. %-tage residues in A, B, L	1833	90.2	74.8	10.0	1.5	BETTER
b. Omega angle st dev	2089	9.7	6.0	3.0	1.2	WORSE
c. Bad contacts / 100 residues	1	0.0	12.2	10.0	-1.2	BETTER
d. Zeta angle st dev	1961	2.0	3.1	1.6	-0.7	Inside
e. H-bond energy st dev	1368	0.7	0.9	0.2	-1.1	BETTER
f. Overall G-factor	2101	-0.1	-0.6	0.3	1.6	BETTER

Side-chain parameters

pdb1sqx



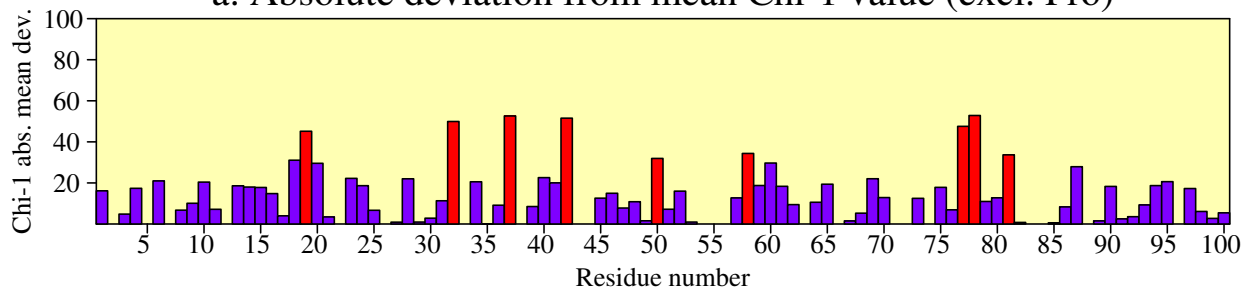
pdb1sqx

Plot statistics

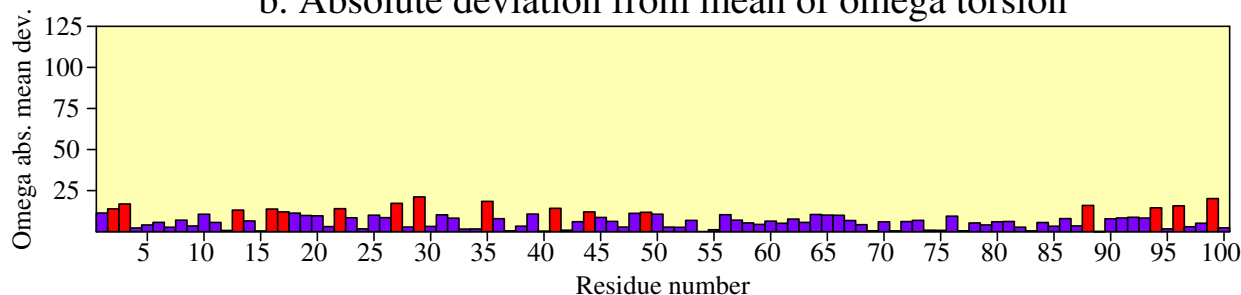
Stereochemical parameter	No. of data pts	Parameter value	Comparison values		No. of band widths from mean
			Typical value	Band width	
a. Chi-1 gauche minus st dev	238	19.8	23.6	6.5	-0.6 Inside
b. Chi-1 trans st dev	579	20.9	23.4	5.3	-0.5 Inside
c. Chi-1 gauche plus st dev	839	20.0	22.0	4.9	-0.4 Inside
d. Chi-1 pooled st dev	1656	21.0	22.8	4.8	-0.4 Inside
e. Chi-2 trans st dev	507	25.4	23.6	5.0	0.4 Inside

Residue properties pdb1sqx

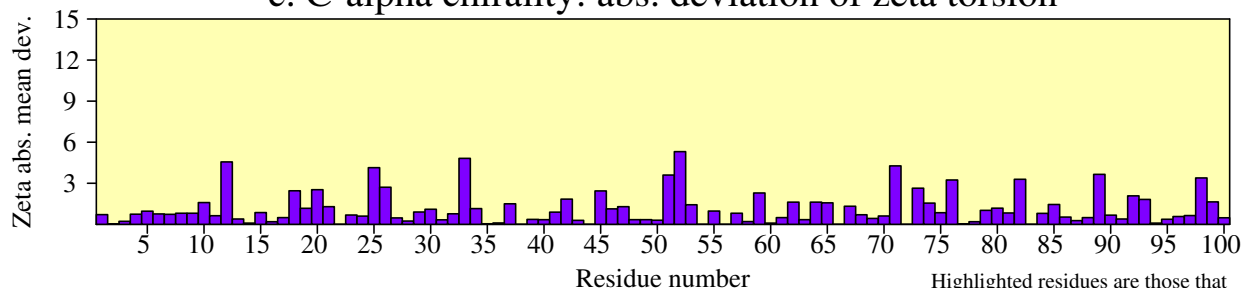
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

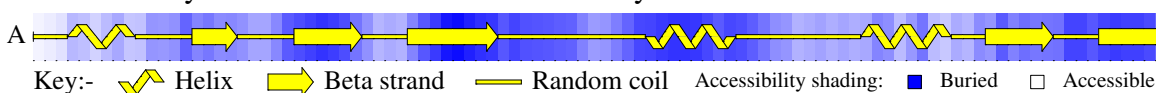


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

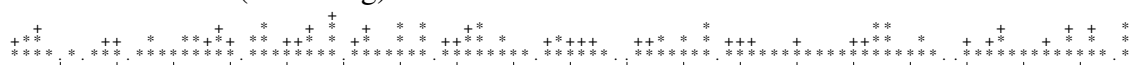
d. Secondary structure & estimated accessibility



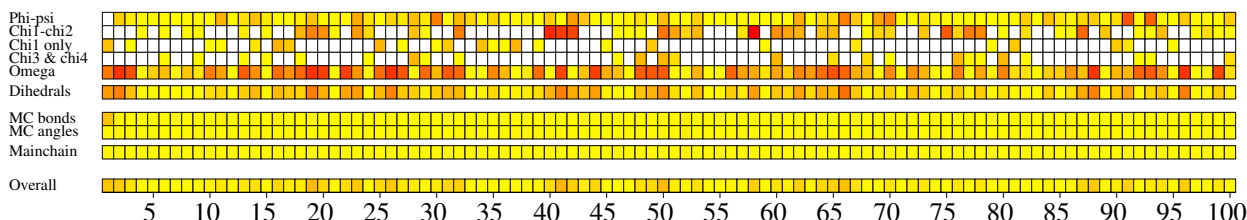
e. Sequence & Ramachandran regions Most favoured Allowed Generous Disallowed



f. Max. deviation (see listing)

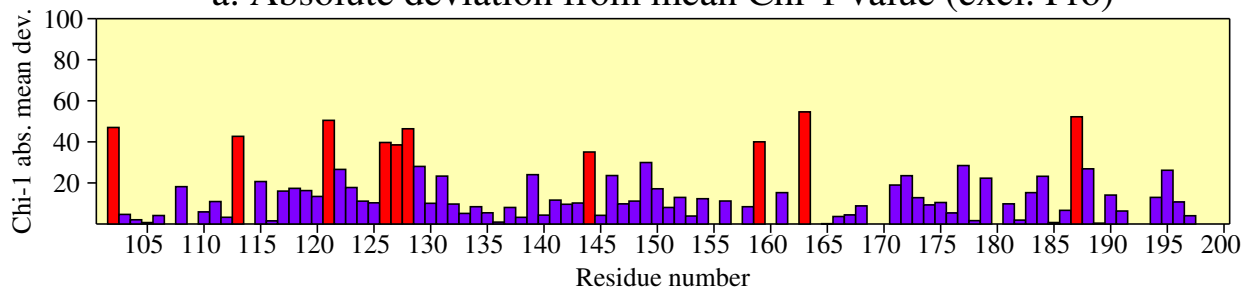


g. G-factors

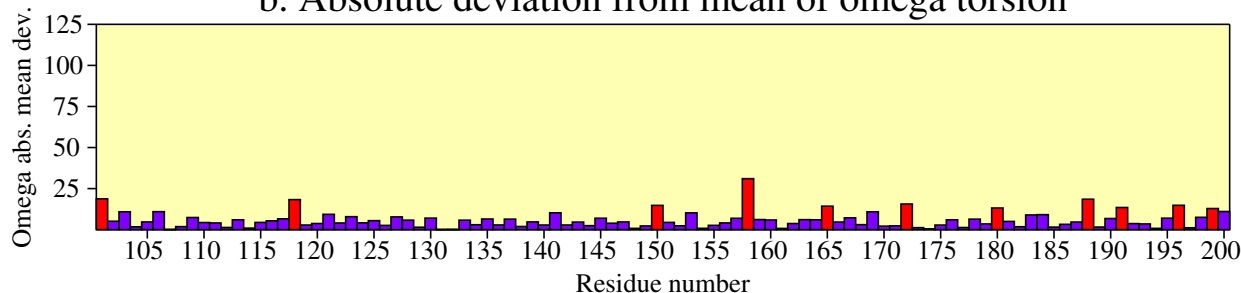


Residue properties pdb1sqx

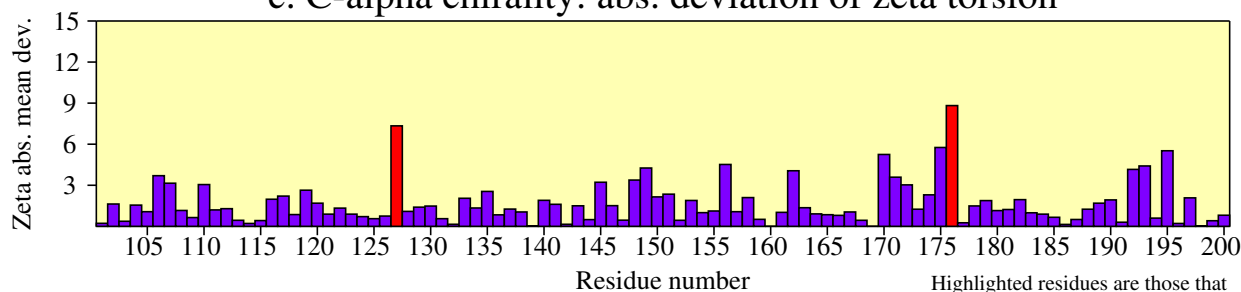
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion



c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

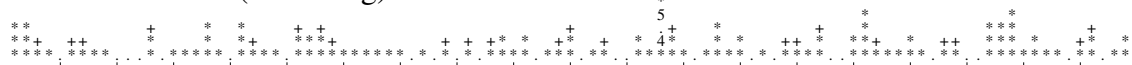
d. Secondary structure & estimated accessibility



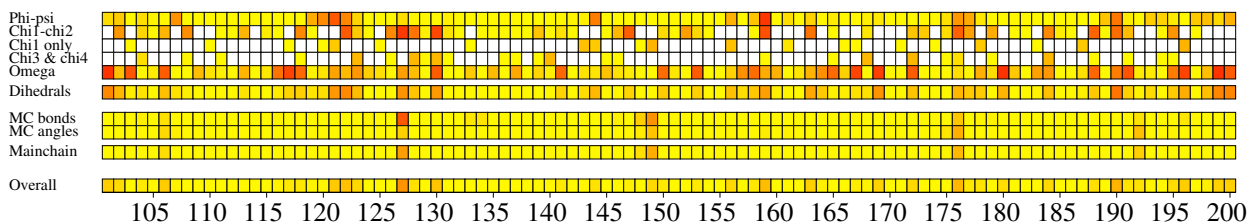
e. Sequence & Ramachandran regions Most favoured Allowed Generous Disallowed



f. Max. deviation (see listing)

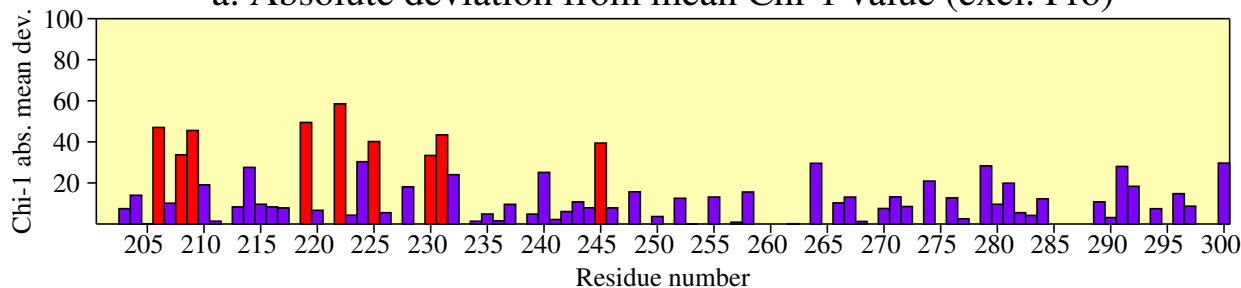


g. G-factors

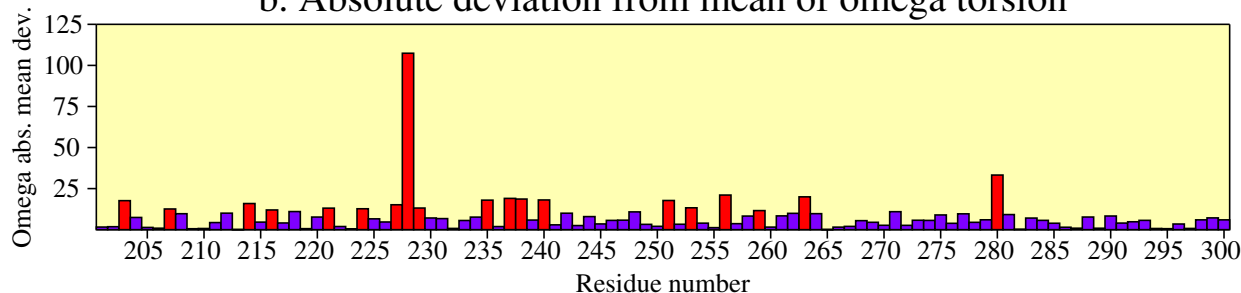


Residue properties pdb1sqx

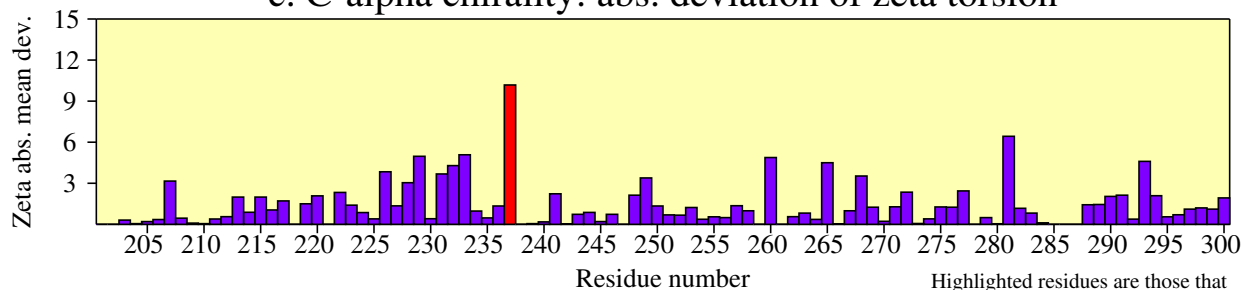
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

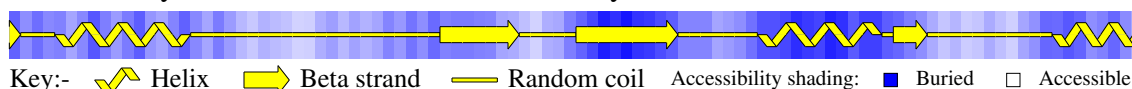


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

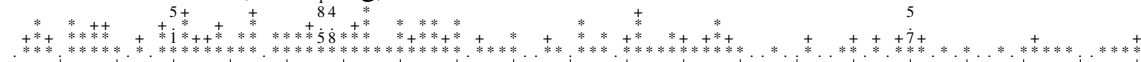
d. Secondary structure & estimated accessibility



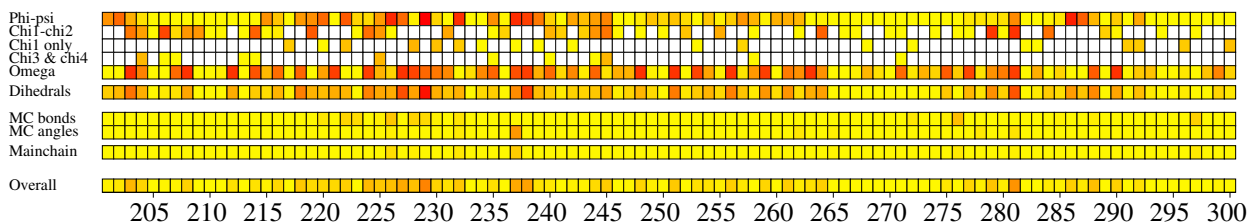
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

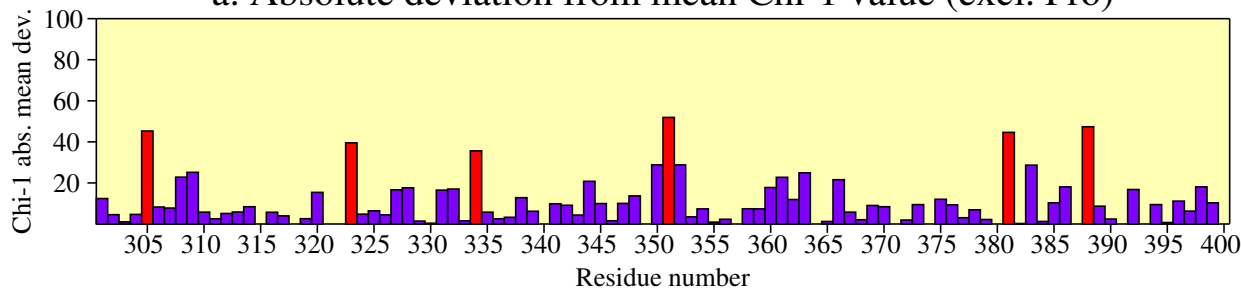


g. G-factors

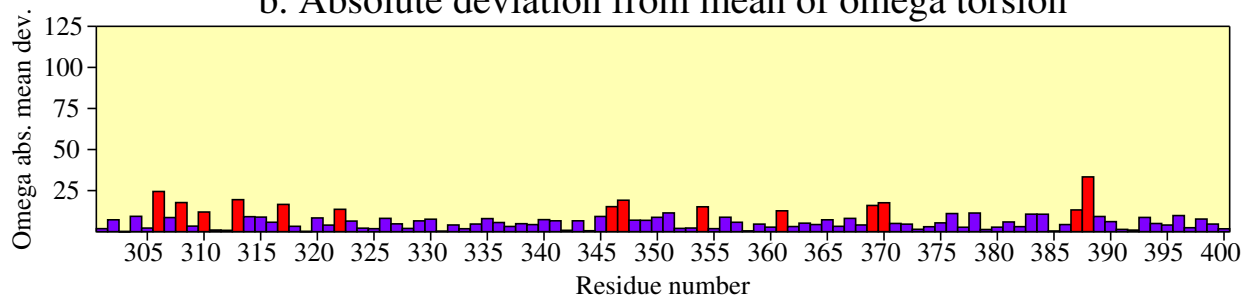


Residue properties pdb1sqx

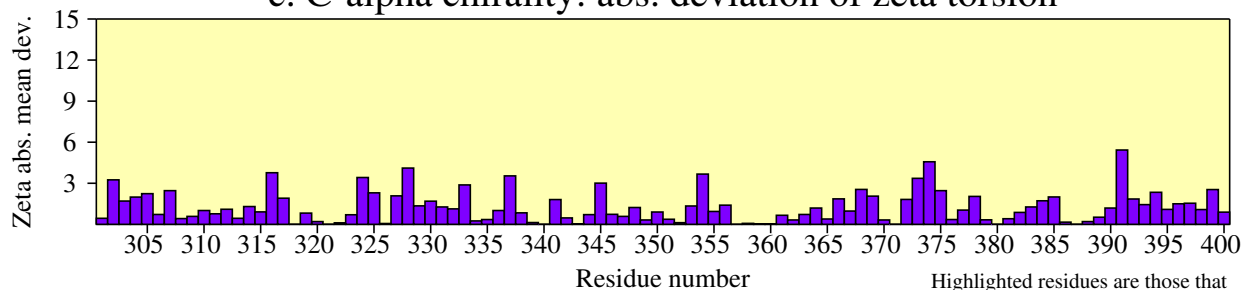
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

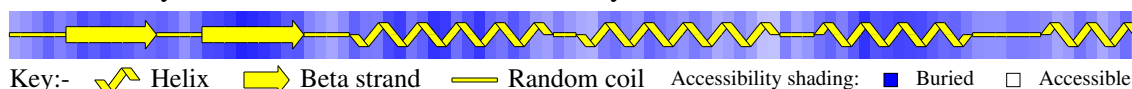


c. C-alpha chirality: abs. deviation of zeta torsion

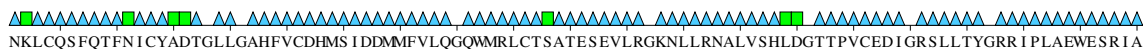


Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

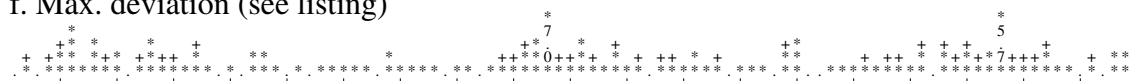
d. Secondary structure & estimated accessibility



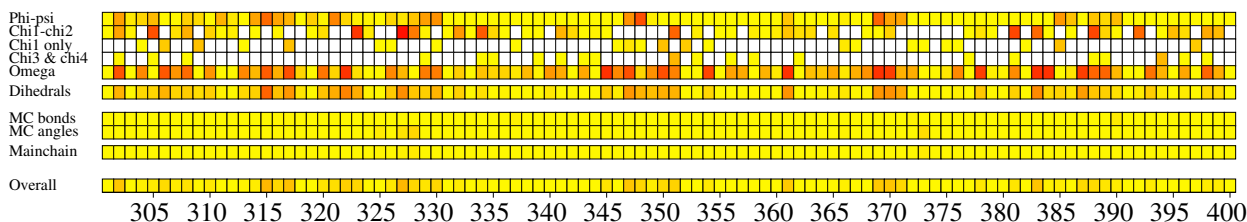
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

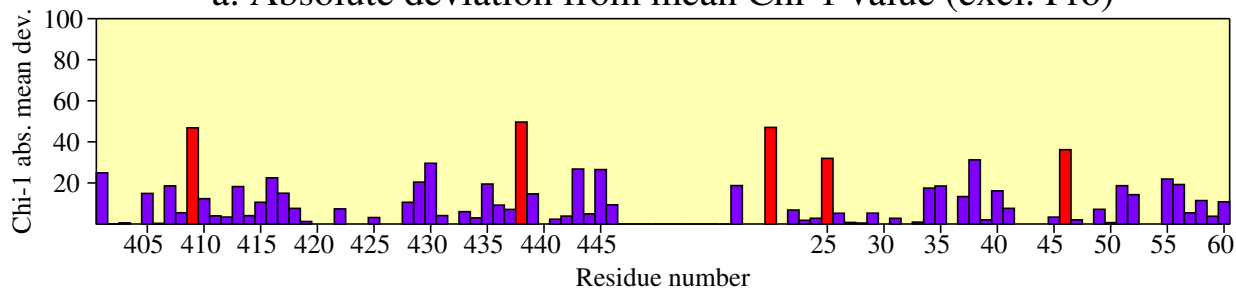


g. G-factors

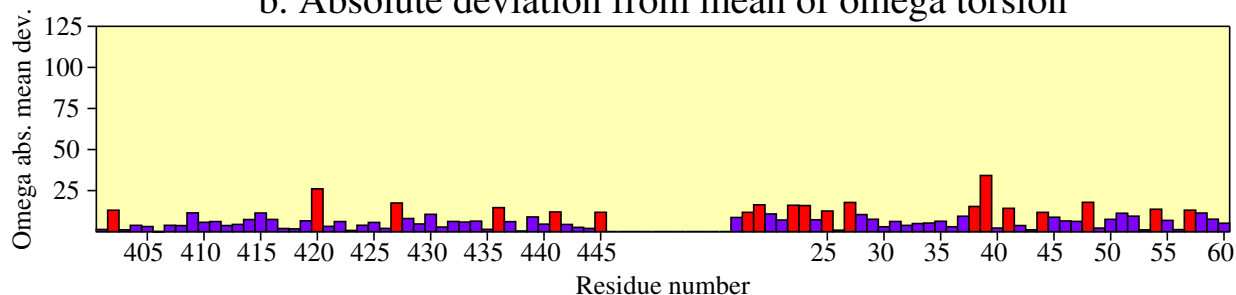


Residue properties pdb1sqx

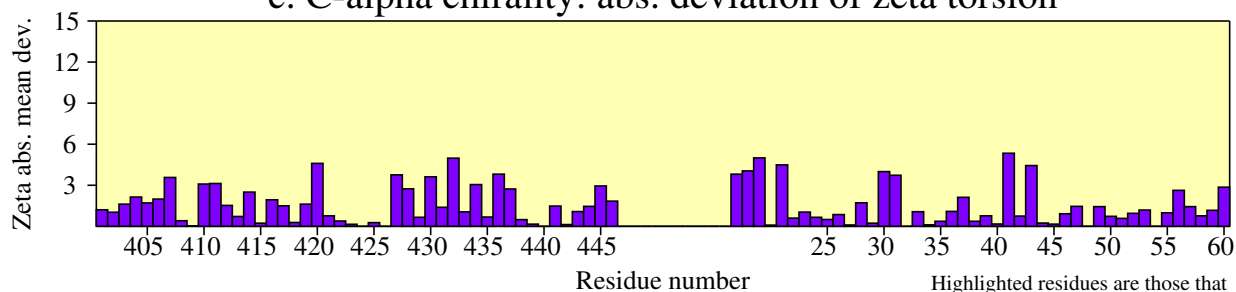
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

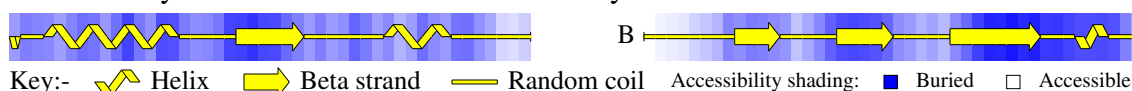


c. C-alpha chirality: abs. deviation of zeta torsion

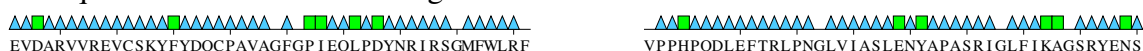


Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

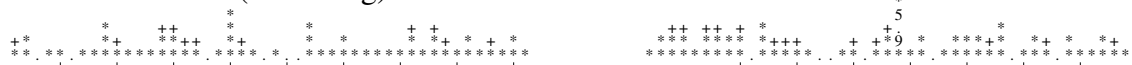
d. Secondary structure & estimated accessibility



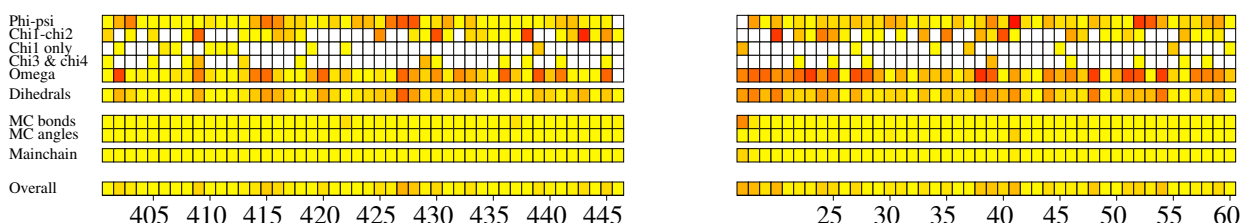
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

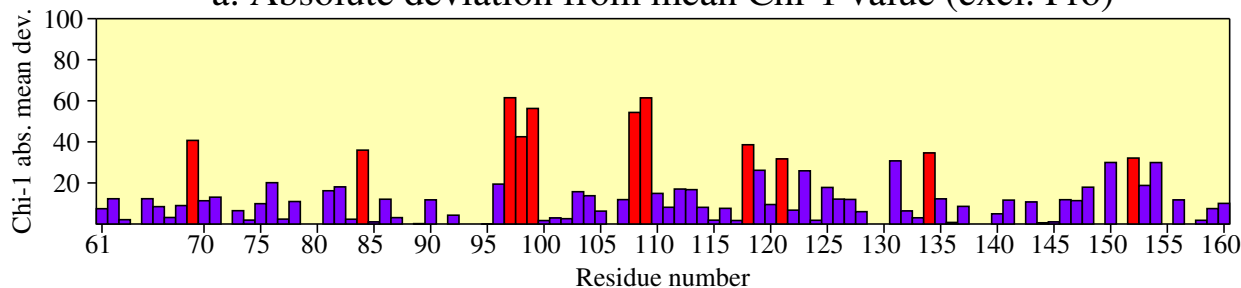


g. G-factors

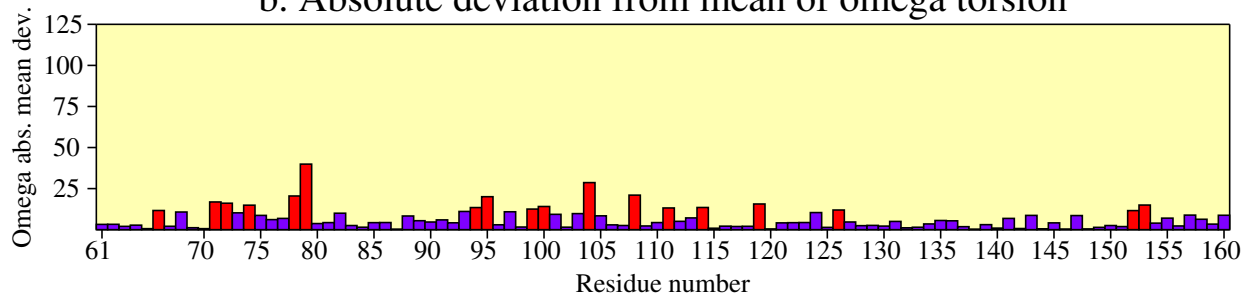


Residue properties pdb1sqx

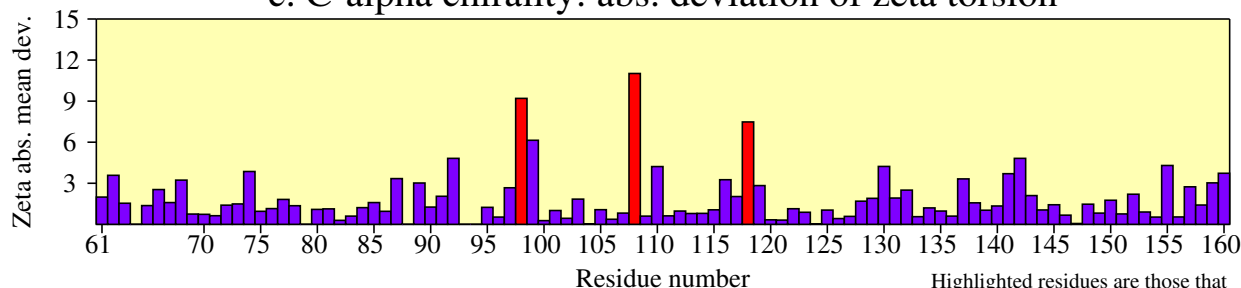
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

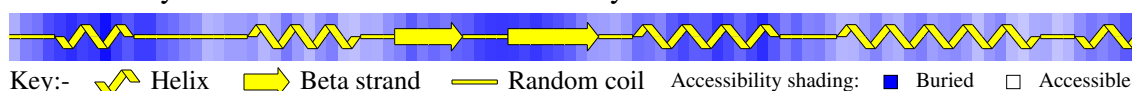


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

d. Secondary structure & estimated accessibility



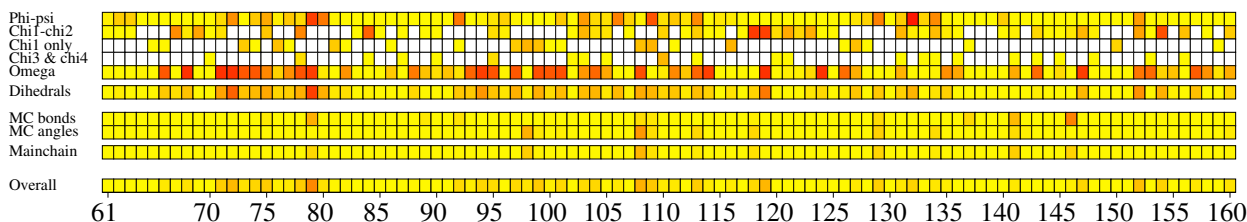
e. Sequence & Ramachandran regions Most favoured Allowed Generous Disallowed



f. Max. deviation (see listing)

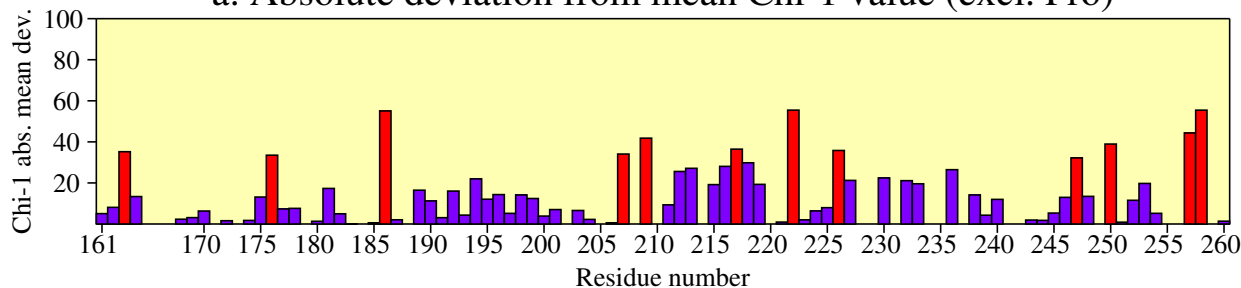


g. G-factors

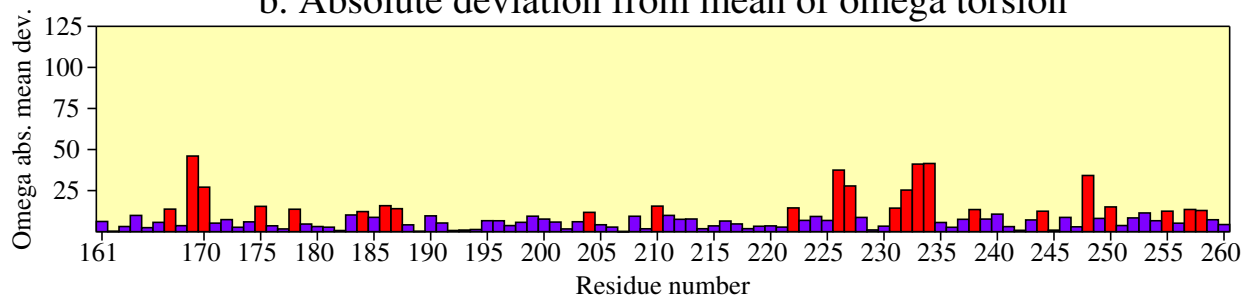


Residue properties pdb1sqx

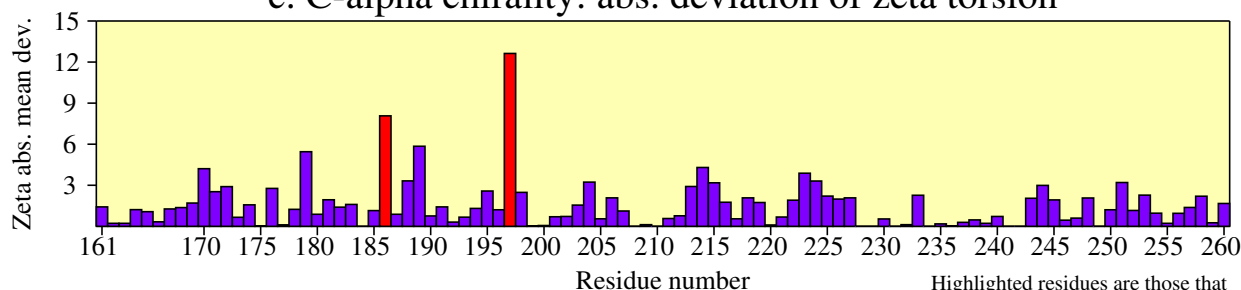
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

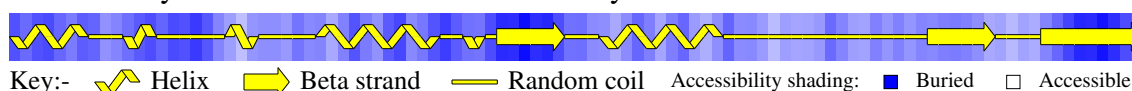


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

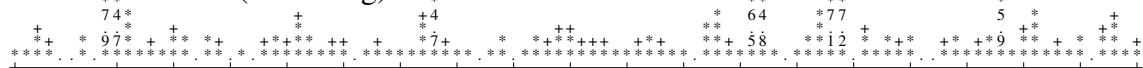
d. Secondary structure & estimated accessibility



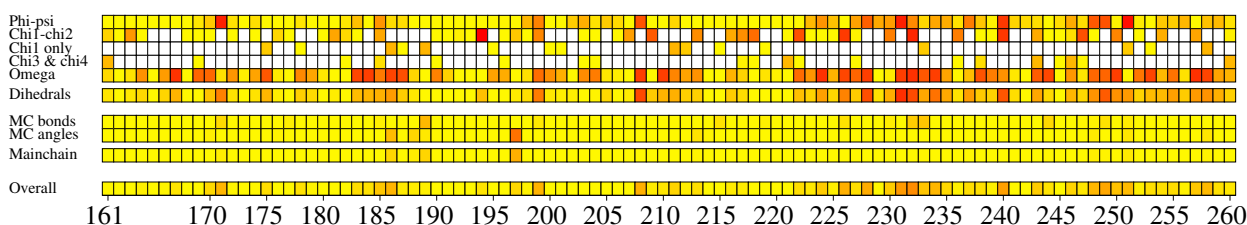
e. Sequence & Ramachandran regions Most favoured Allowed Generous Disallowed



f. Max. deviation (see listing)

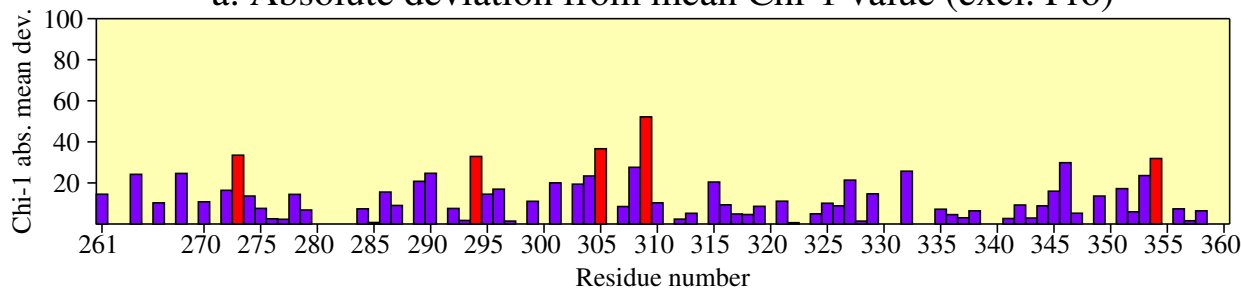


g. G-factors

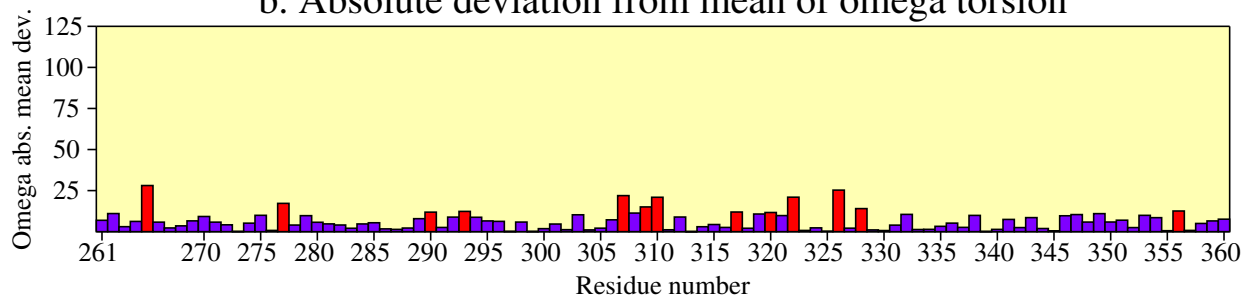


Residue properties pdb1sqx

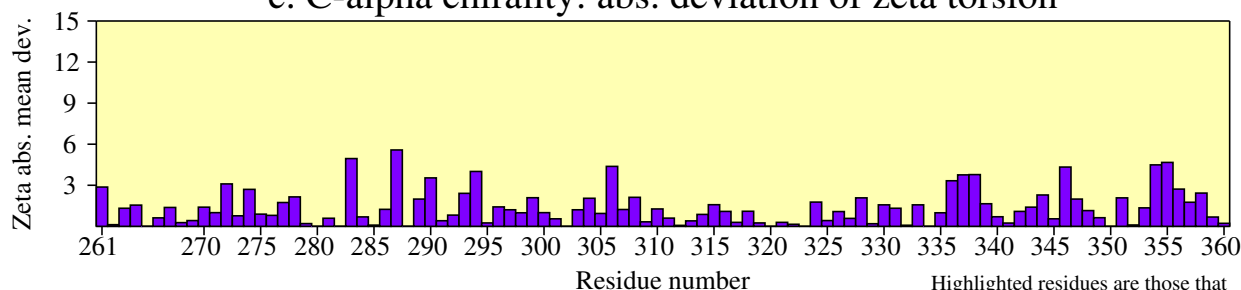
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

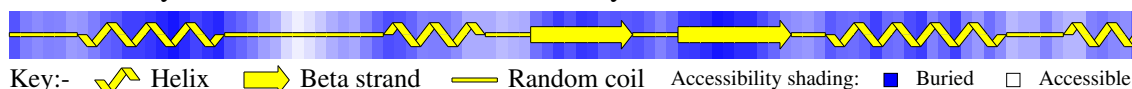


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

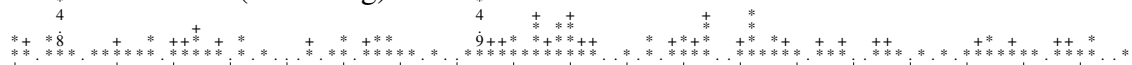
d. Secondary structure & estimated accessibility



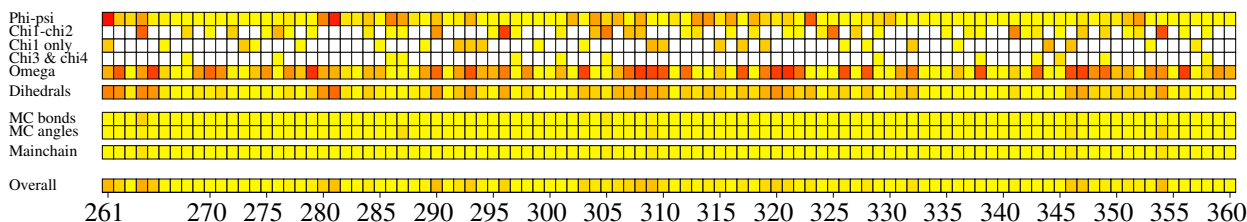
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

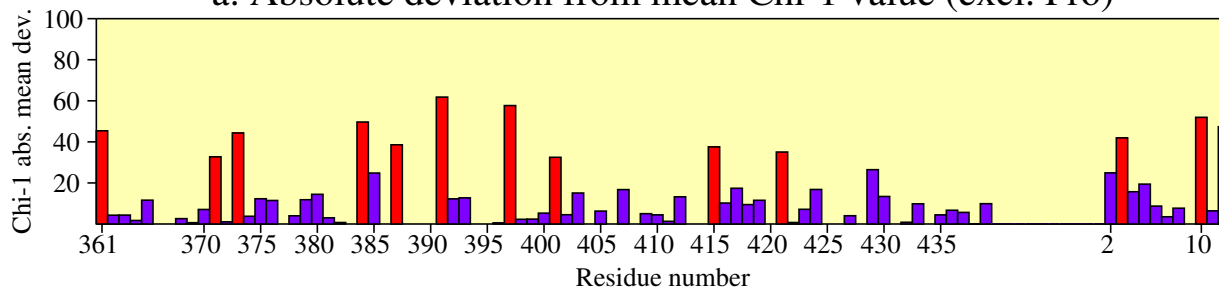


g. G-factors

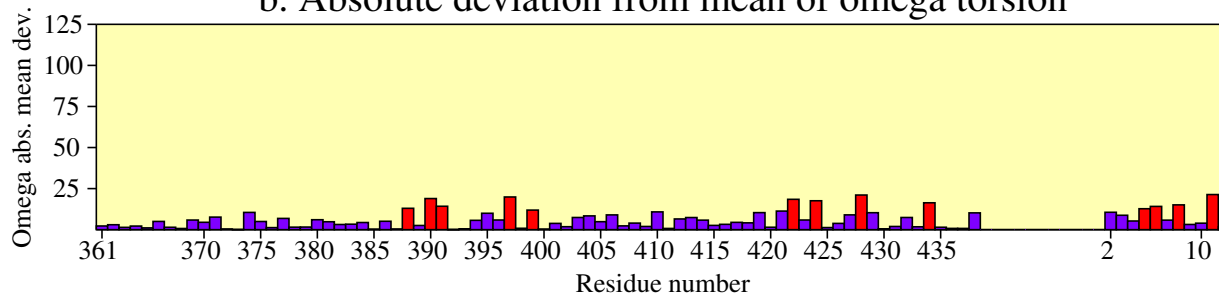


Residue properties pdb1sqx

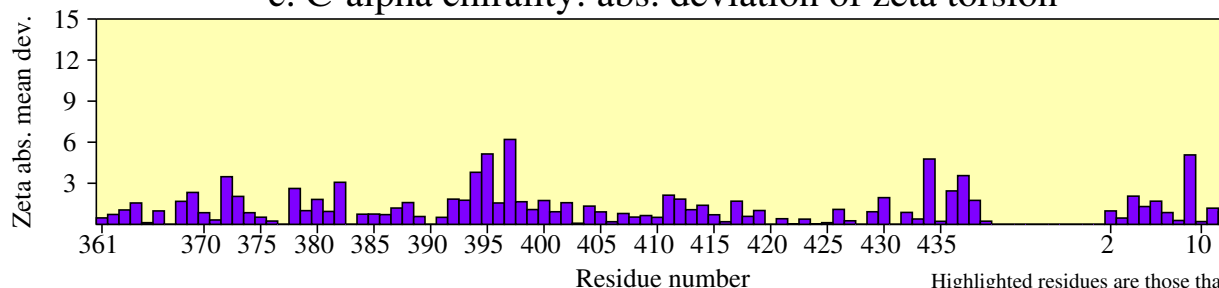
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

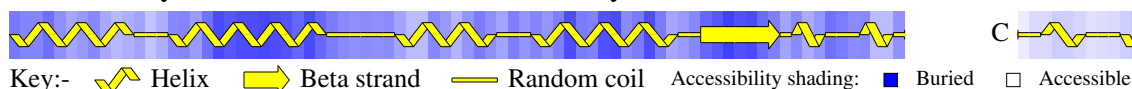


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

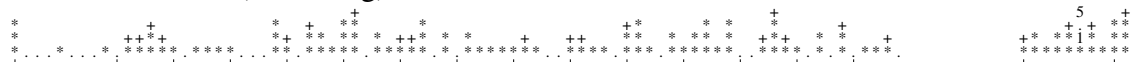
d. Secondary structure & estimated accessibility



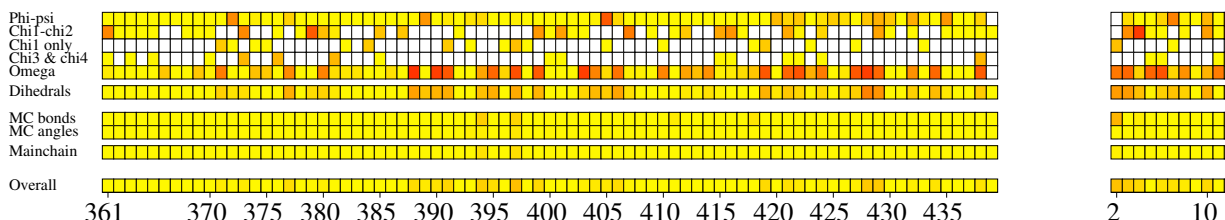
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

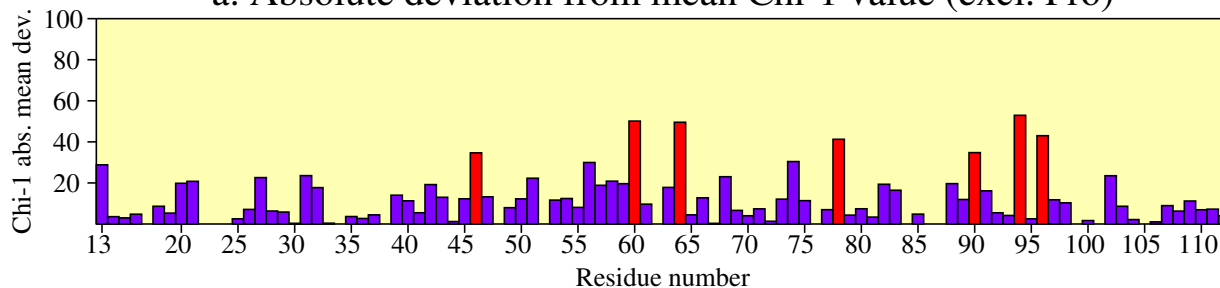


g. G-factors

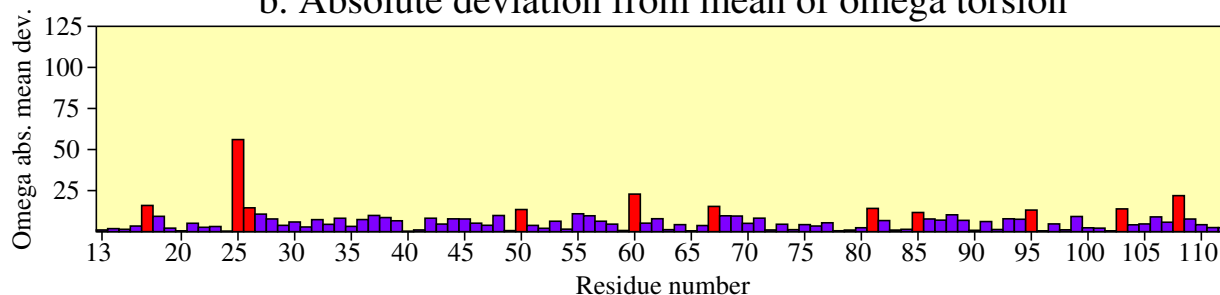


Residue properties pdb1sqx

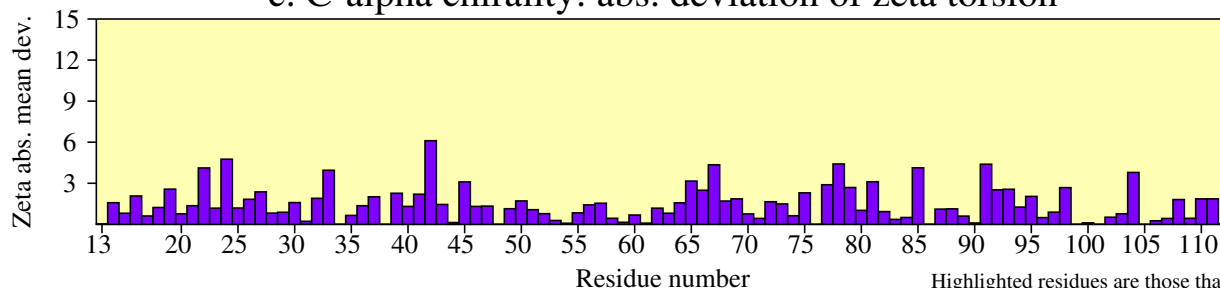
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

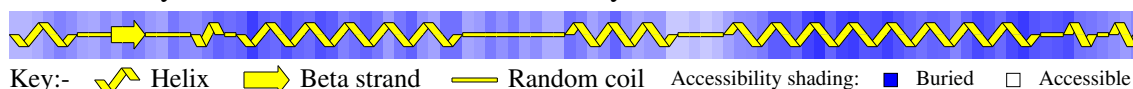


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

d. Secondary structure & estimated accessibility



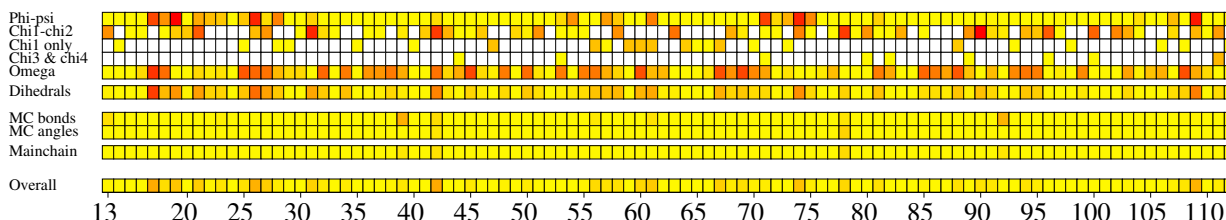
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

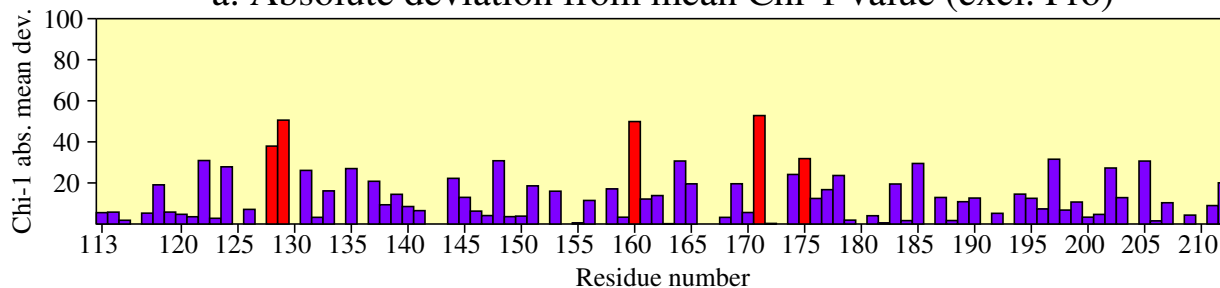


g. G-factors

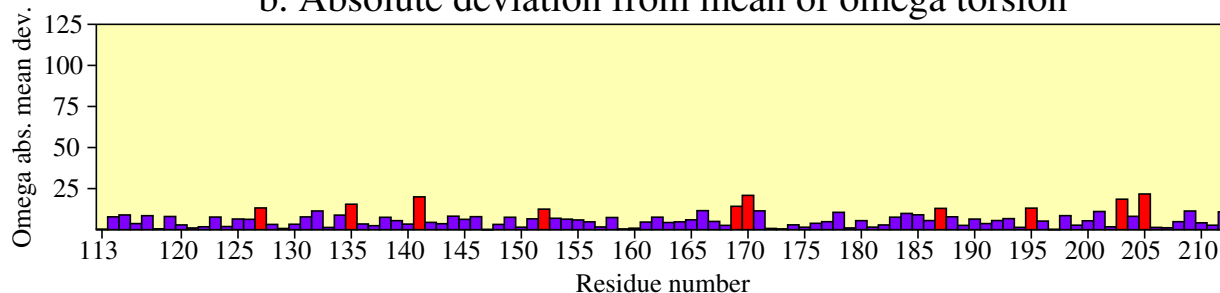


Residue properties pdb1sqx

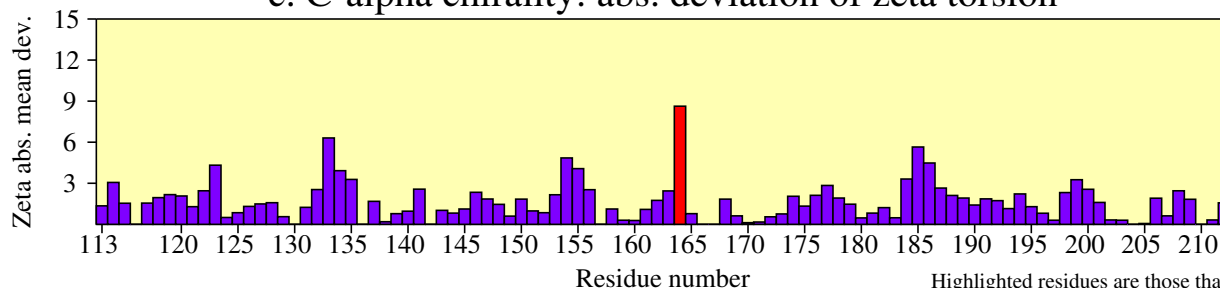
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion



c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

d. Secondary structure & estimated accessibility



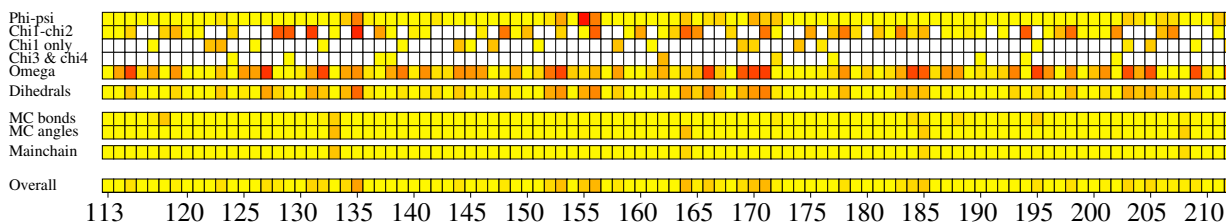
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

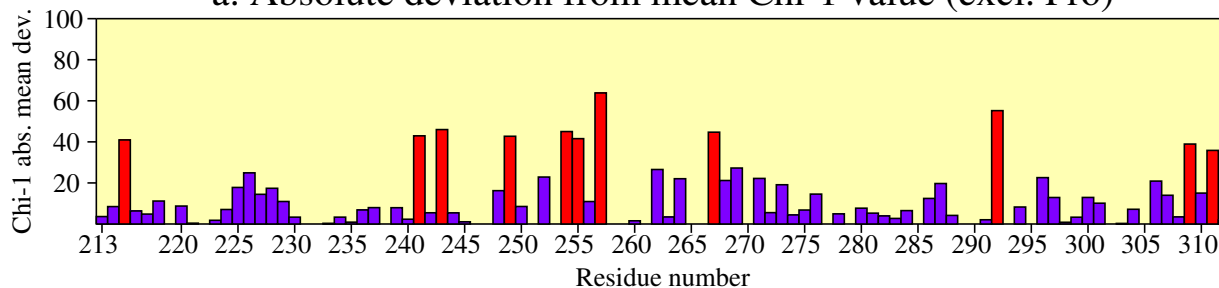


g. G-factors

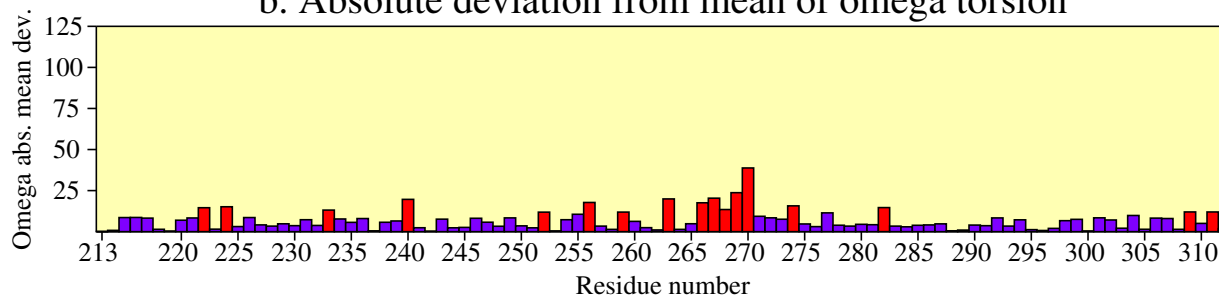


Residue properties pdb1sqx

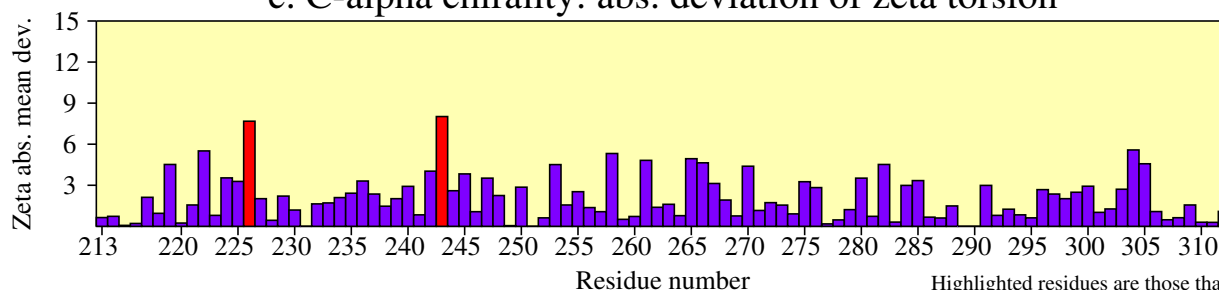
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

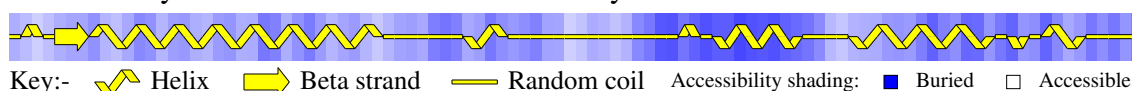


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

d. Secondary structure & estimated accessibility



Key:- Helix Beta strand Random coil Accessibility shading: Buried Accessible

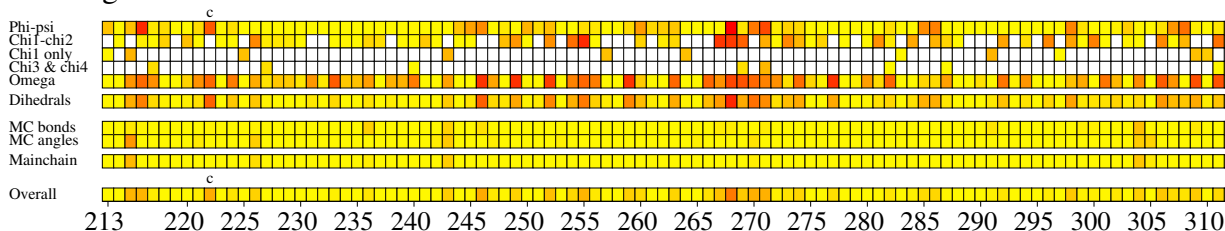
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)



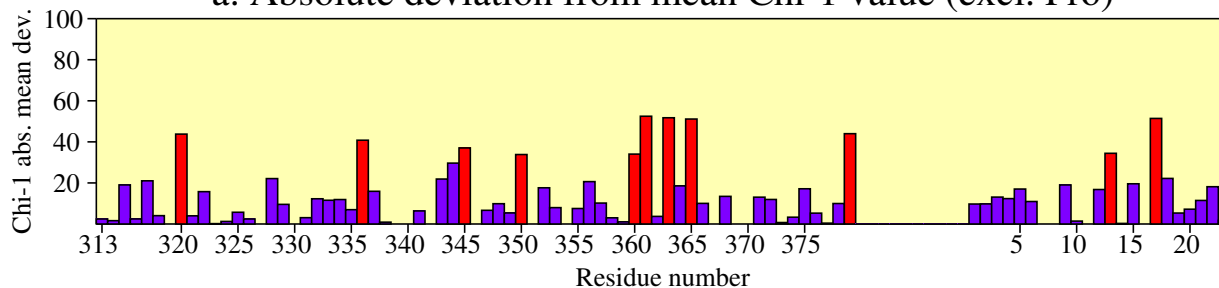
g. G-factors



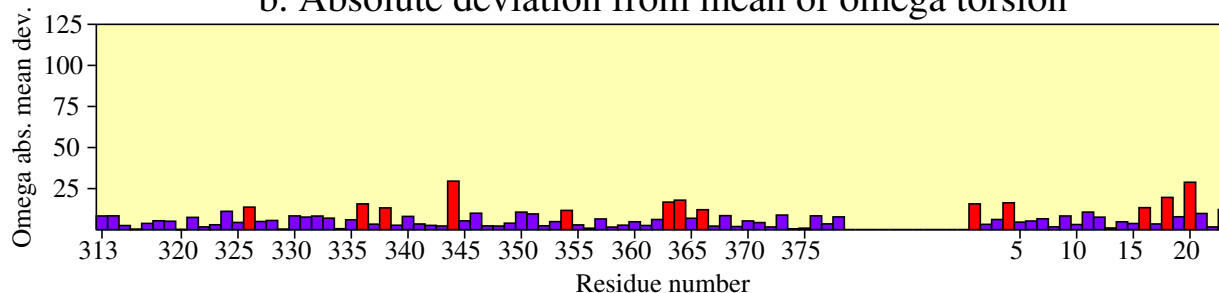
c = cis-peptide

Residue properties pdb1sqx

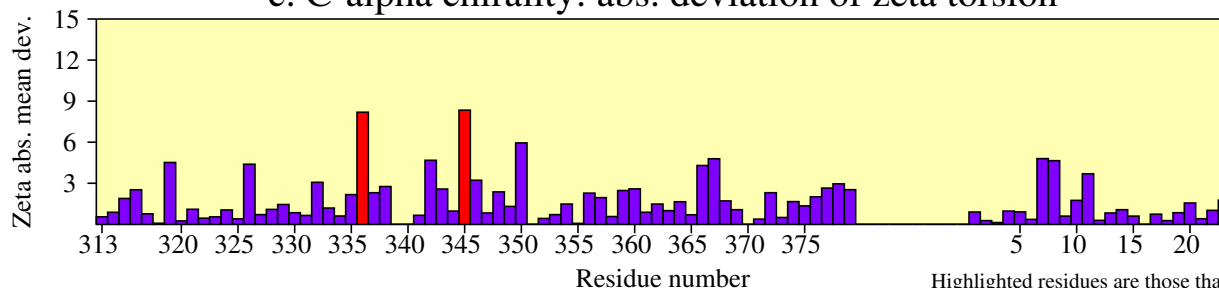
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

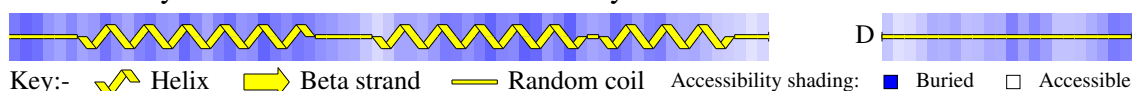


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

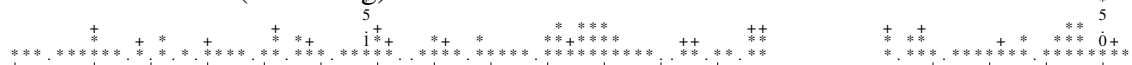
d. Secondary structure & estimated accessibility



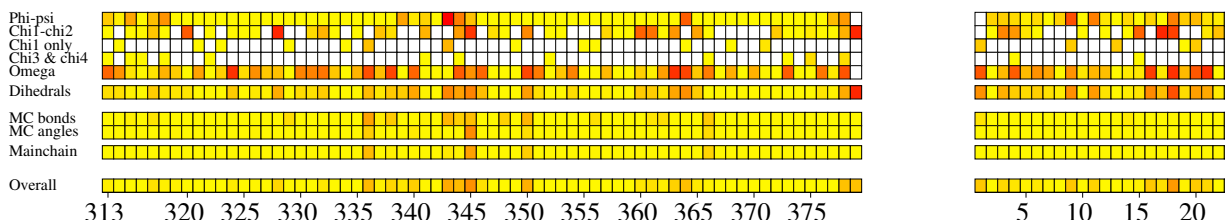
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

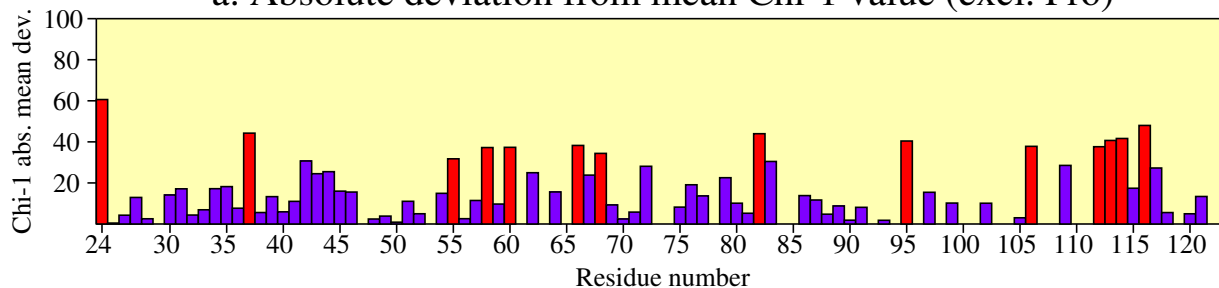


g. G-factors

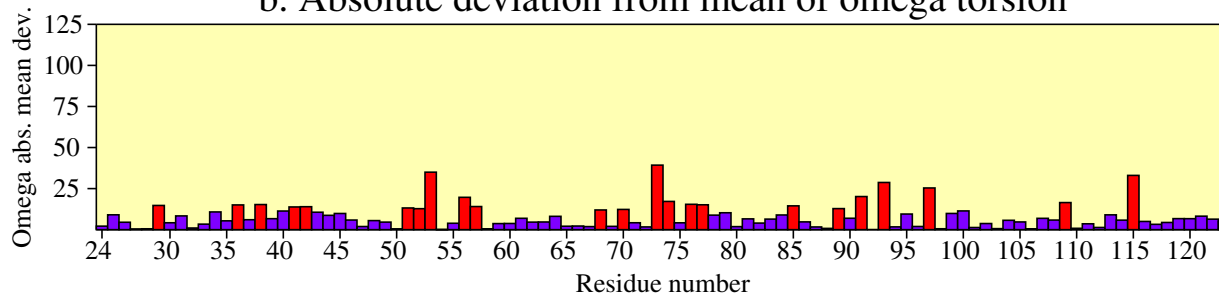


Residue properties pdb1sqx

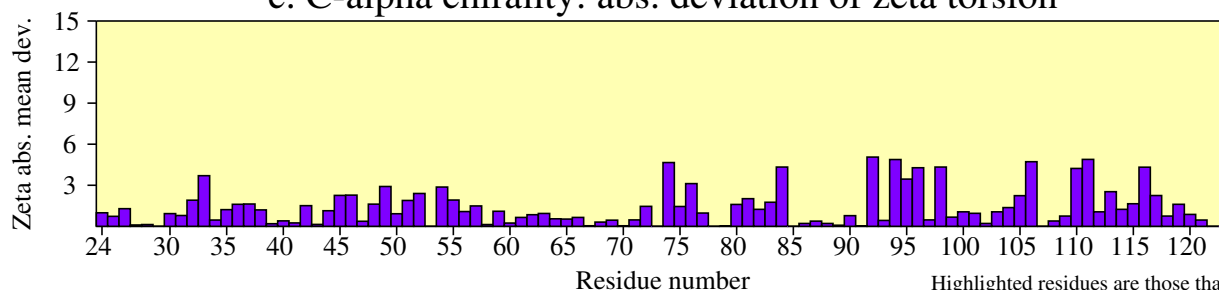
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

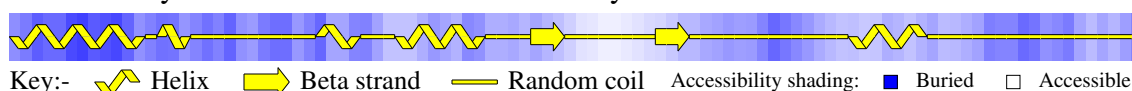


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

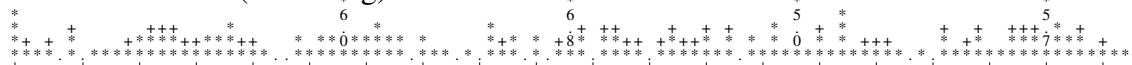
d. Secondary structure & estimated accessibility



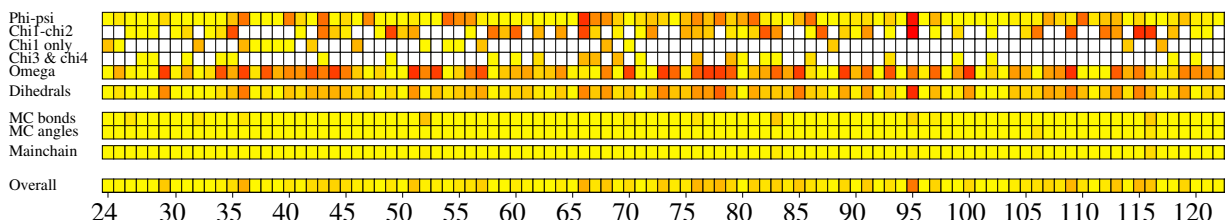
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

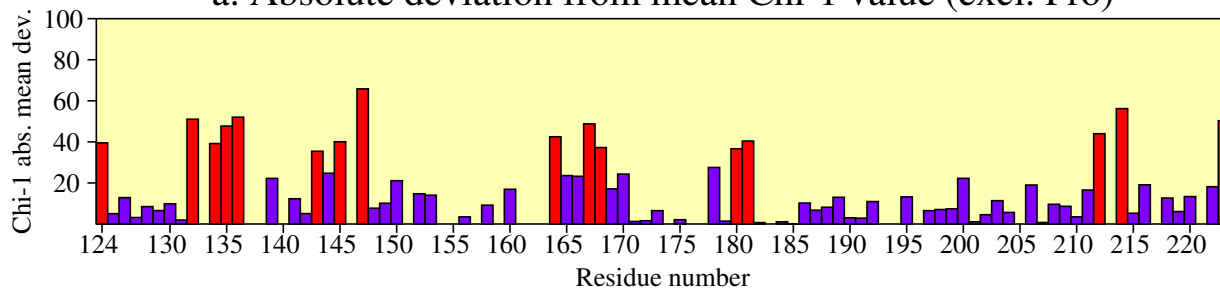


g. G-factors

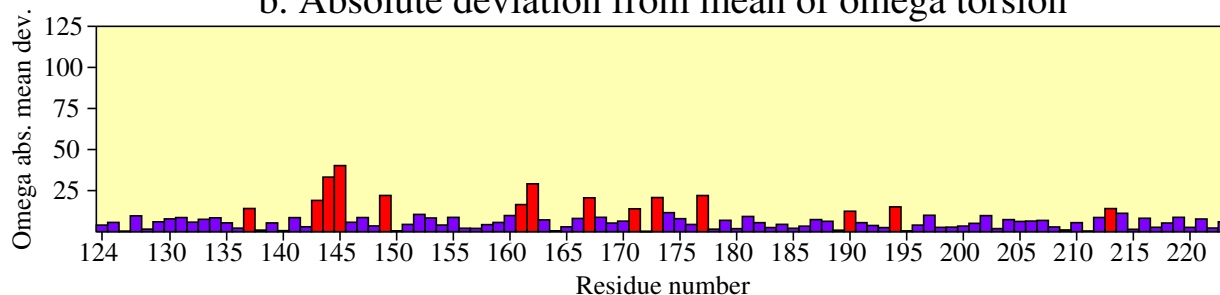


Residue properties pdb1sqx

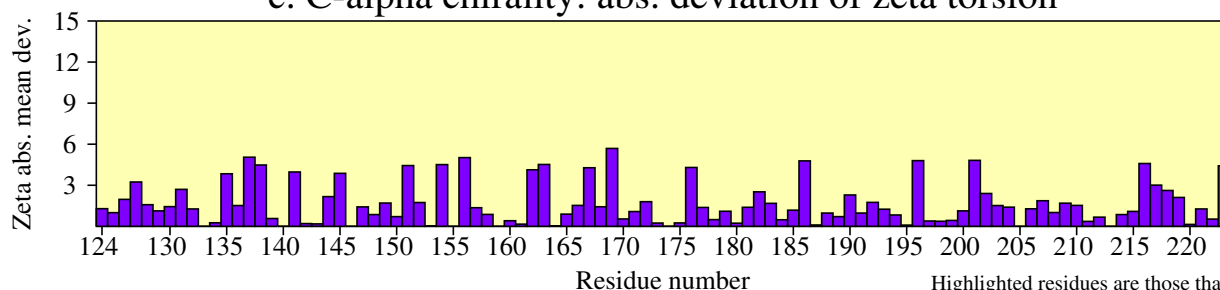
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

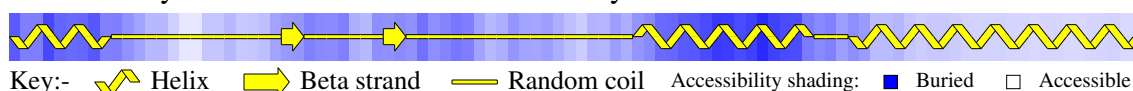


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

d. Secondary structure & estimated accessibility



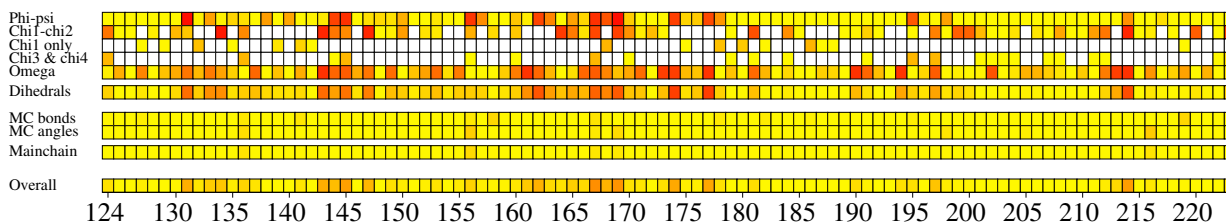
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

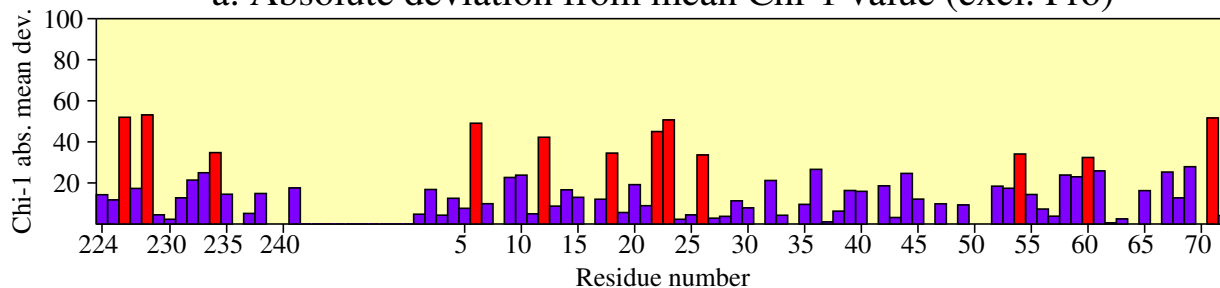


g. G-factors

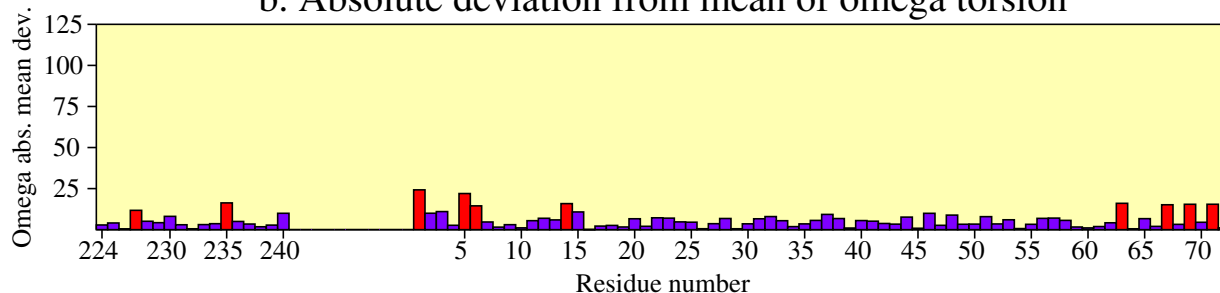


Residue properties pdb1sqx

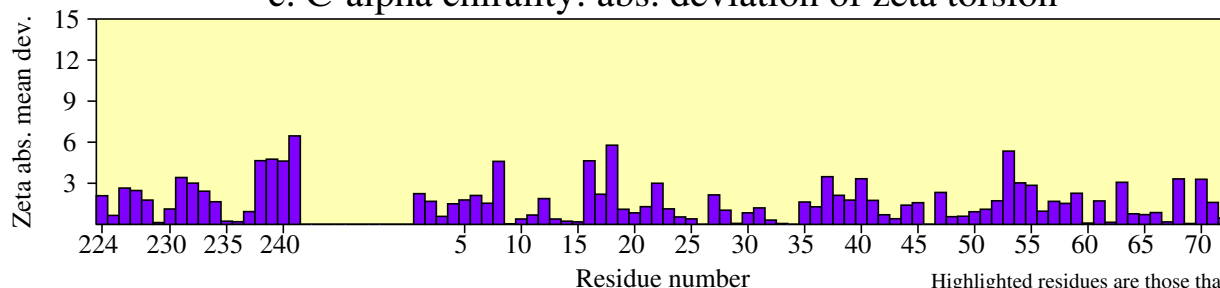
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

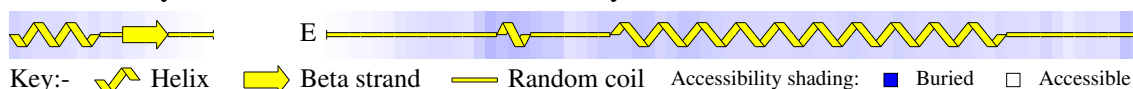


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

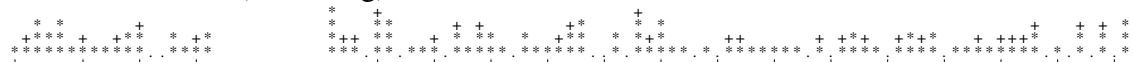
d. Secondary structure & estimated accessibility



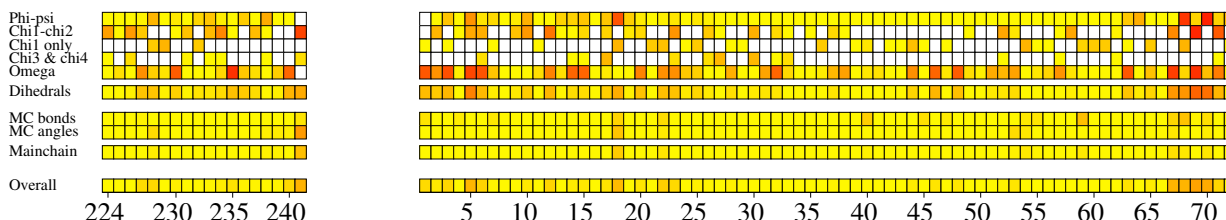
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

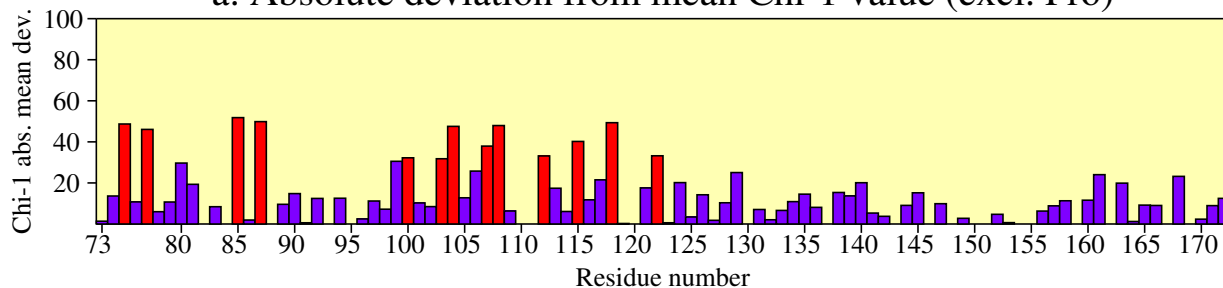


g. G-factors

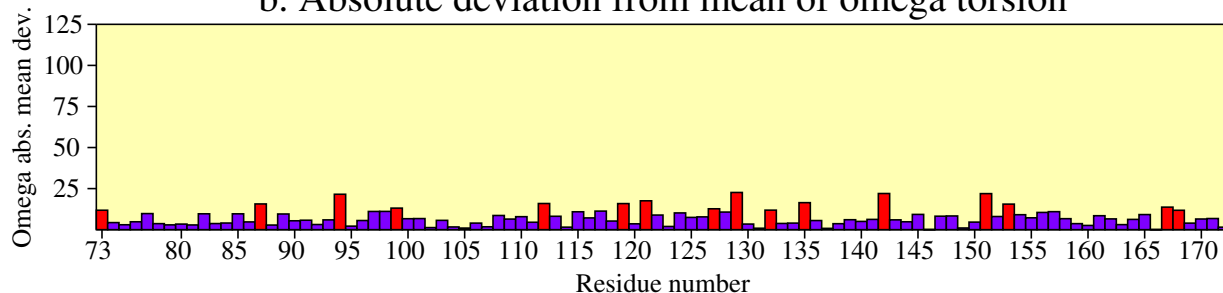


Residue properties pdb1sqx

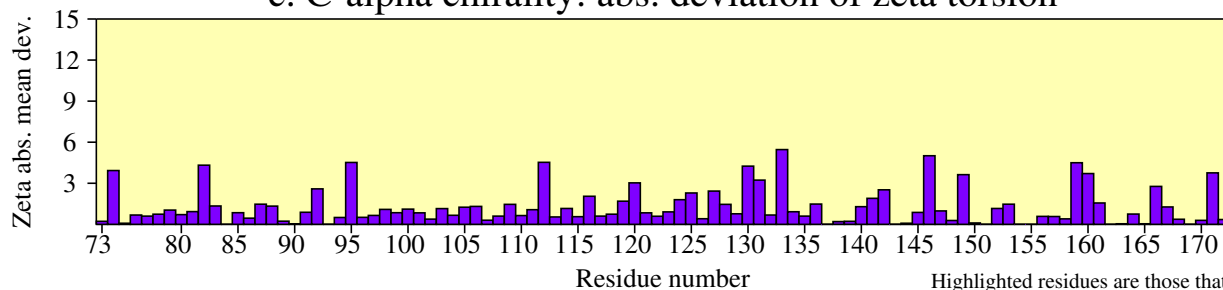
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

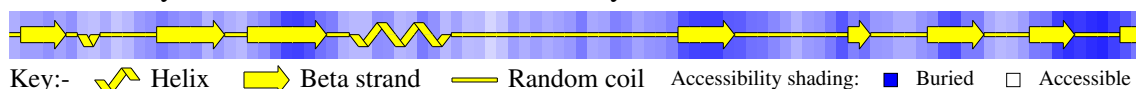


c. C-alpha chirality: abs. deviation of zeta torsion

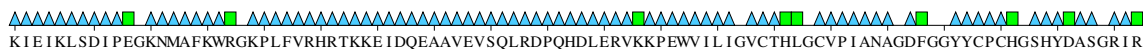


Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

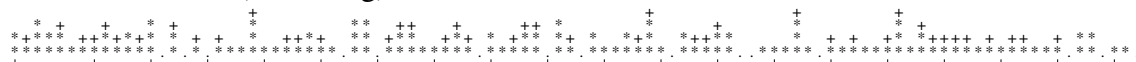
d. Secondary structure & estimated accessibility



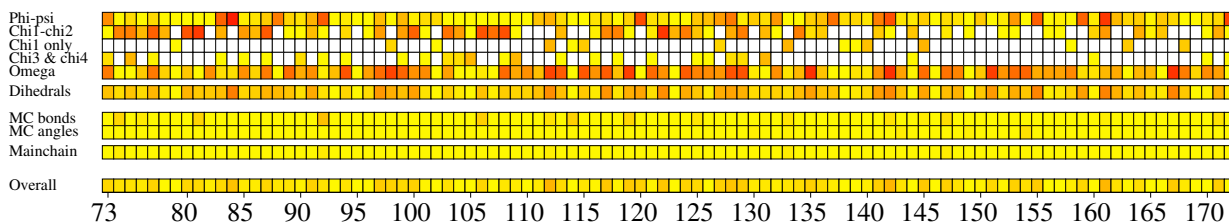
e. Sequence & Ramachandran regions Most favoured Allowed Generous Disallowed



f. Max. deviation (see listing)

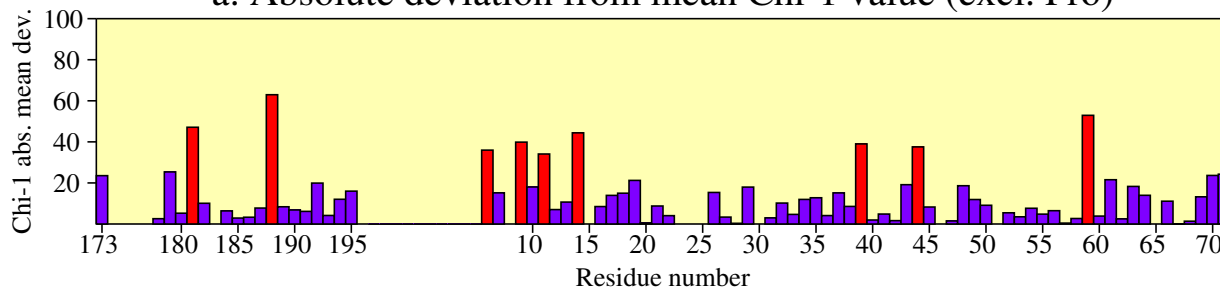


g. G-factors

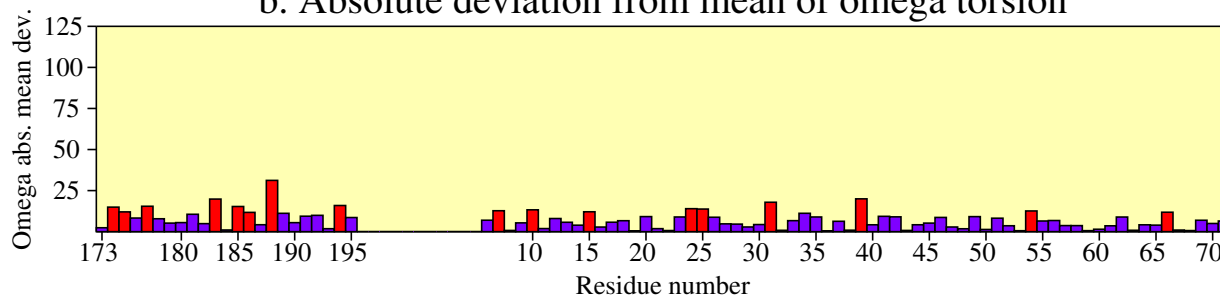


Residue properties pdb1sqx

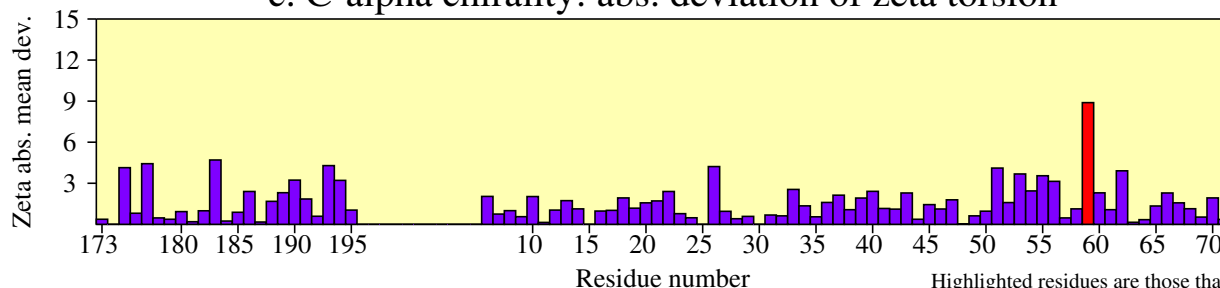
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

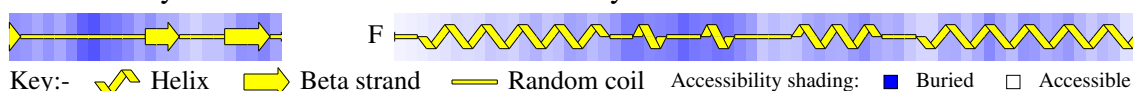


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

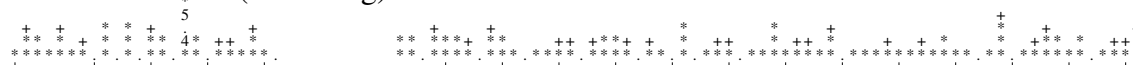
d. Secondary structure & estimated accessibility



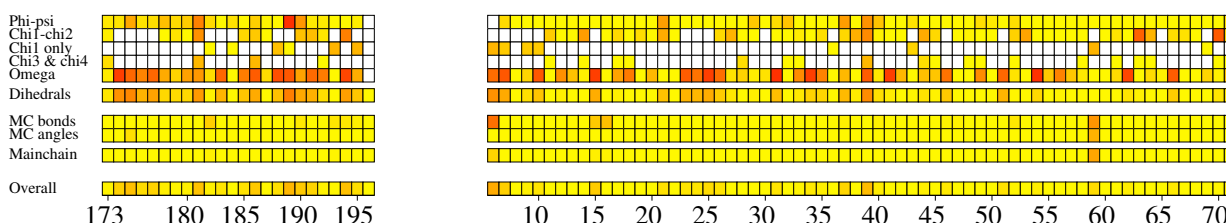
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

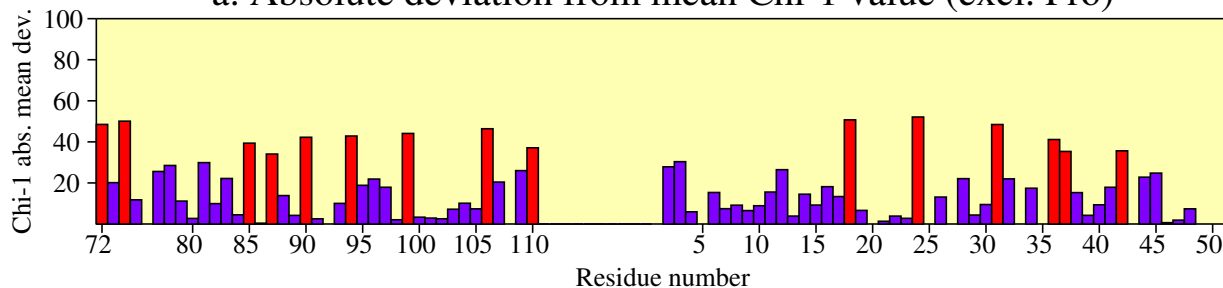


g. G-factors

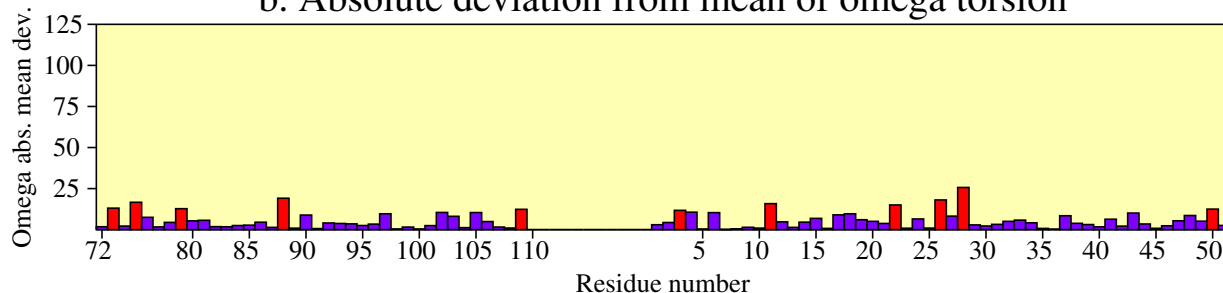


Residue properties pdb1sqx

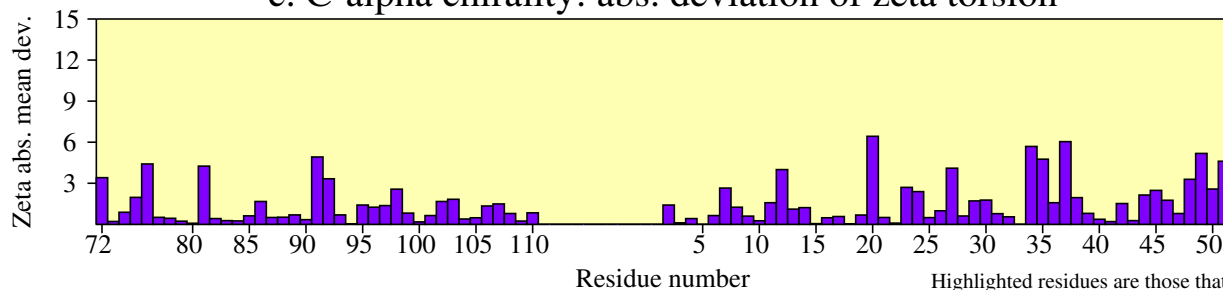
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

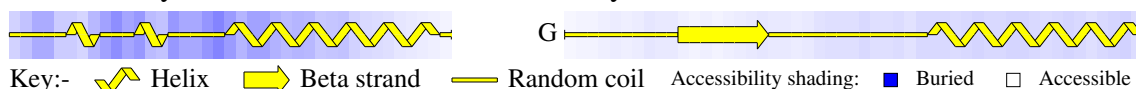


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

d. Secondary structure & estimated accessibility



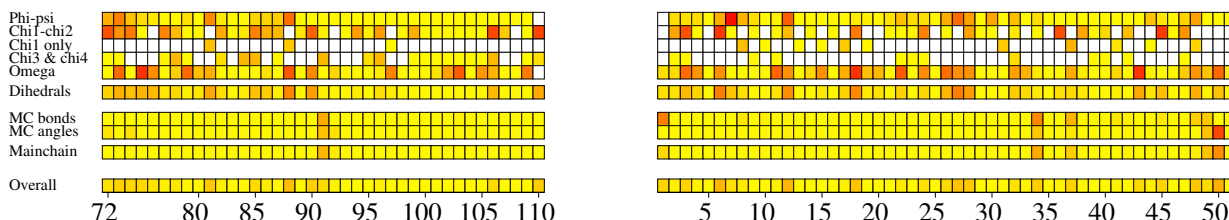
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

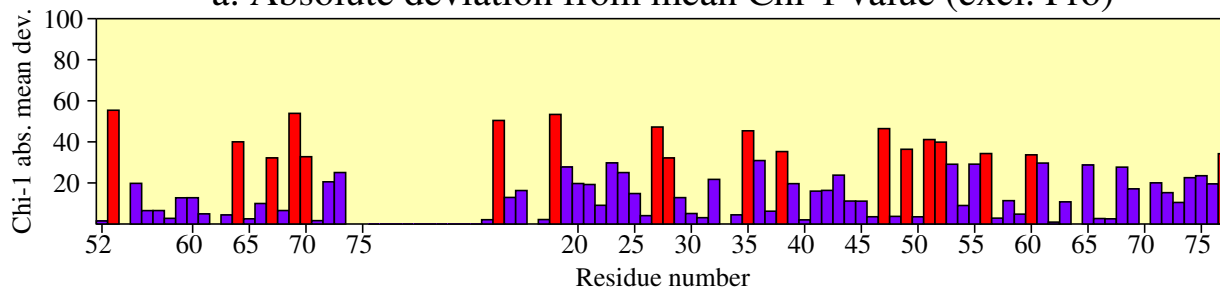


g. G-factors

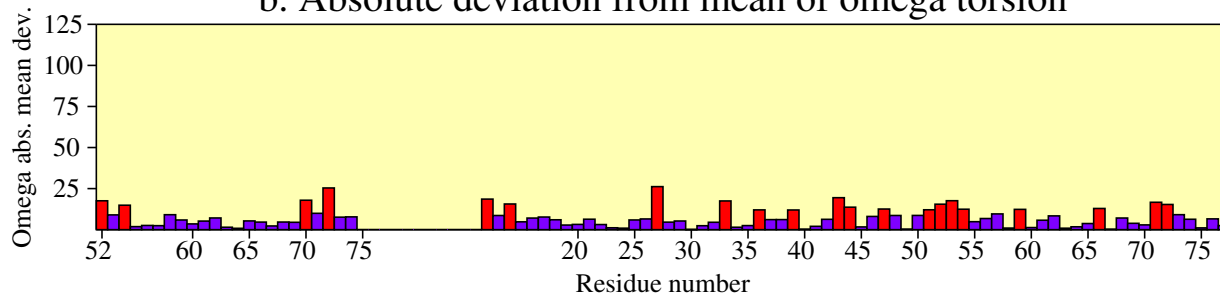


Residue properties pdb1sqx

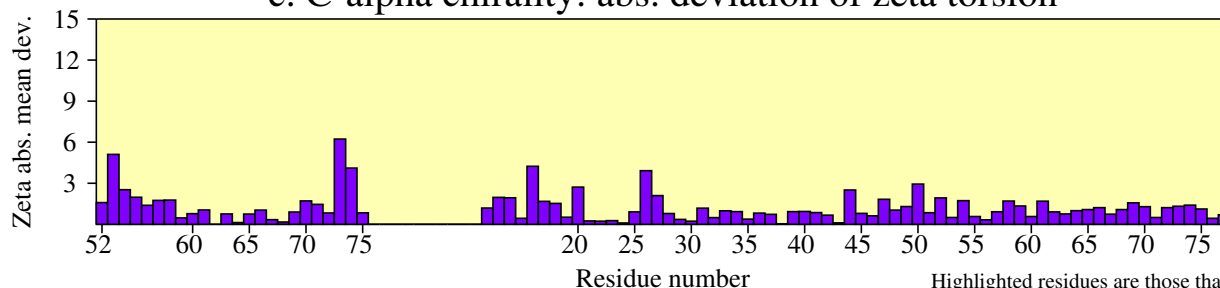
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

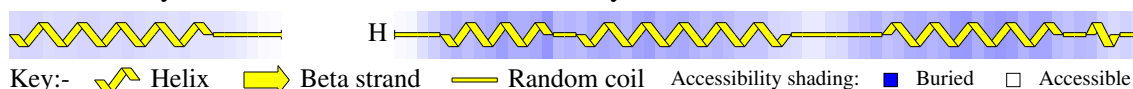


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

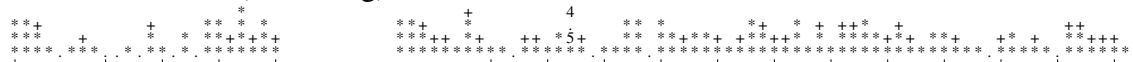
d. Secondary structure & estimated accessibility



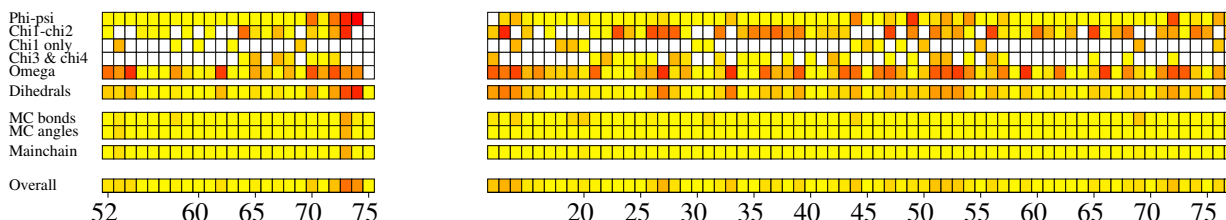
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

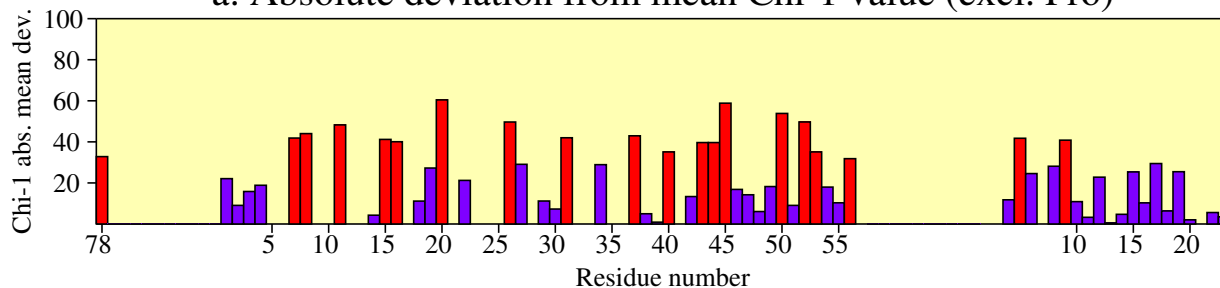


g. G-factors

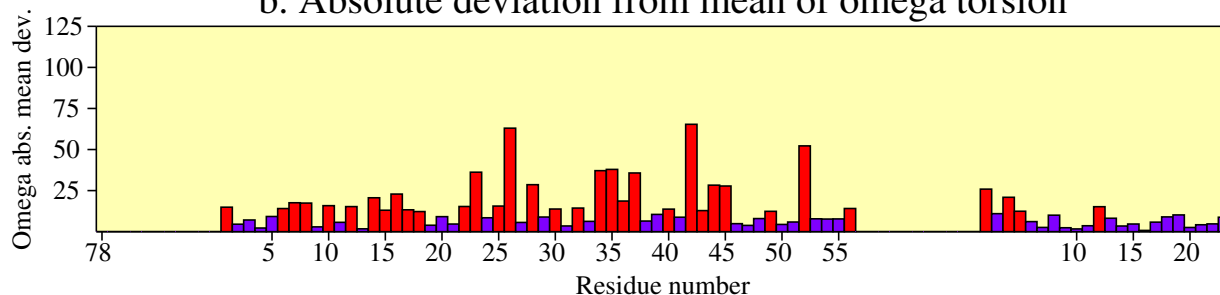


Residue properties pdb1sqx

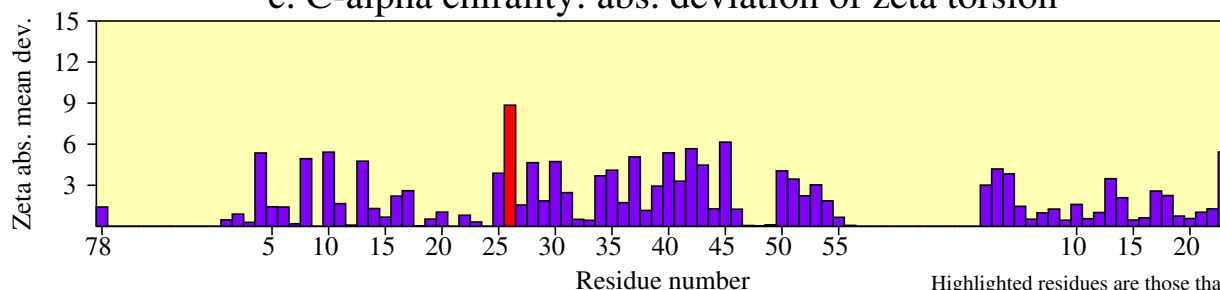
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

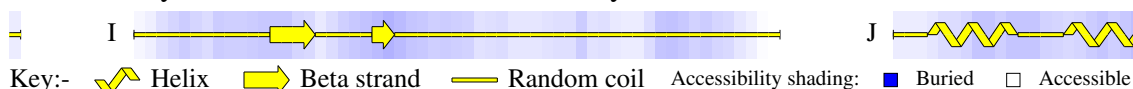


c. C-alpha chirality: abs. deviation of zeta torsion

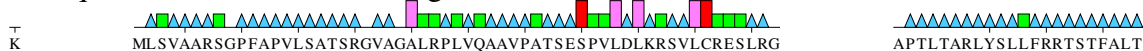


Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

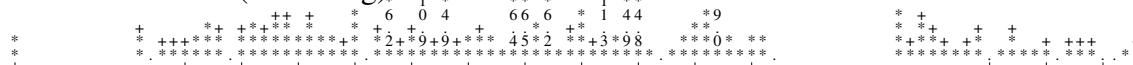
d. Secondary structure & estimated accessibility



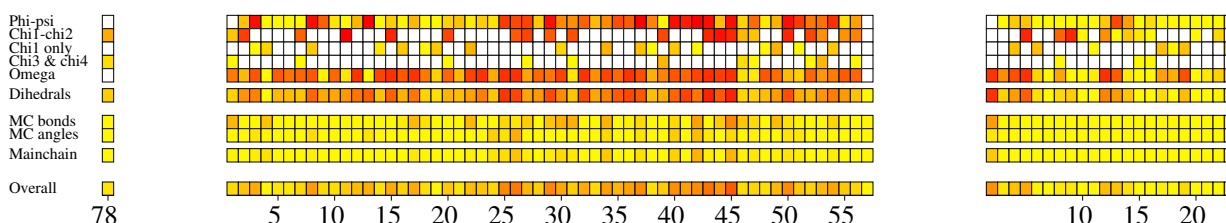
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

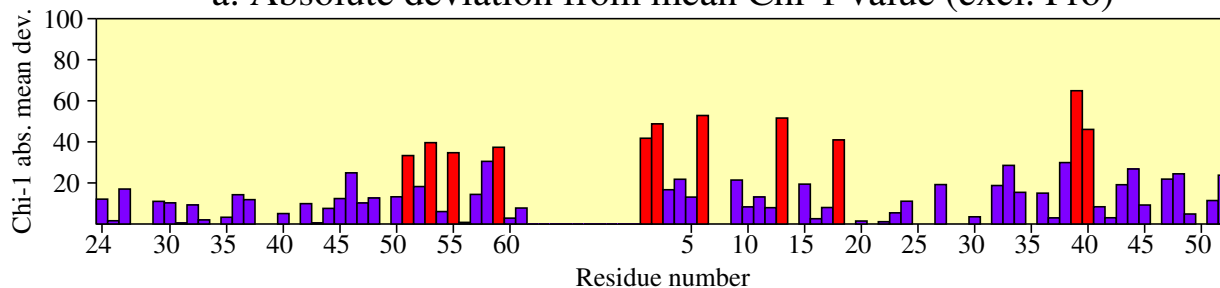


g. G-factors

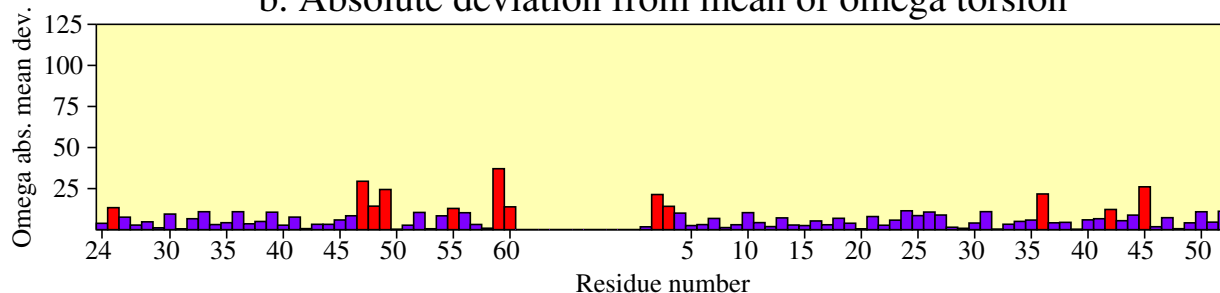


Residue properties pdb1sqx

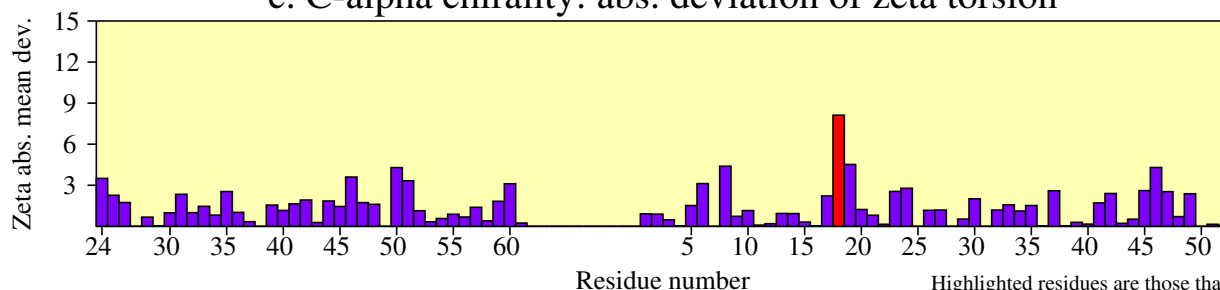
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

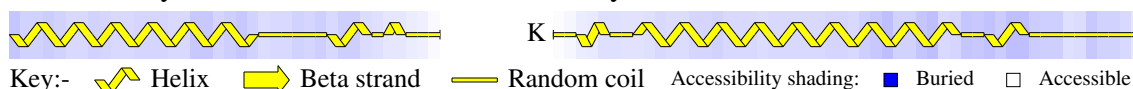


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

d. Secondary structure & estimated accessibility



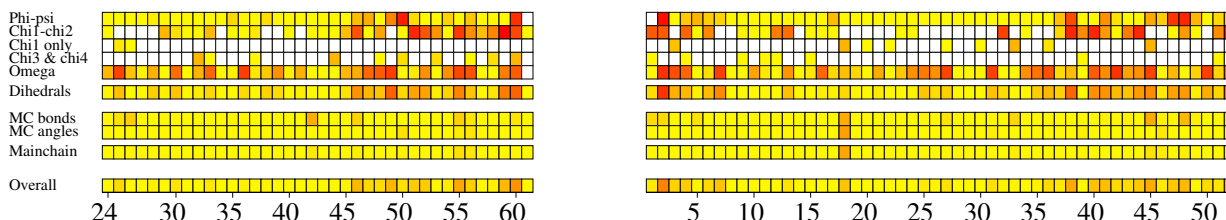
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

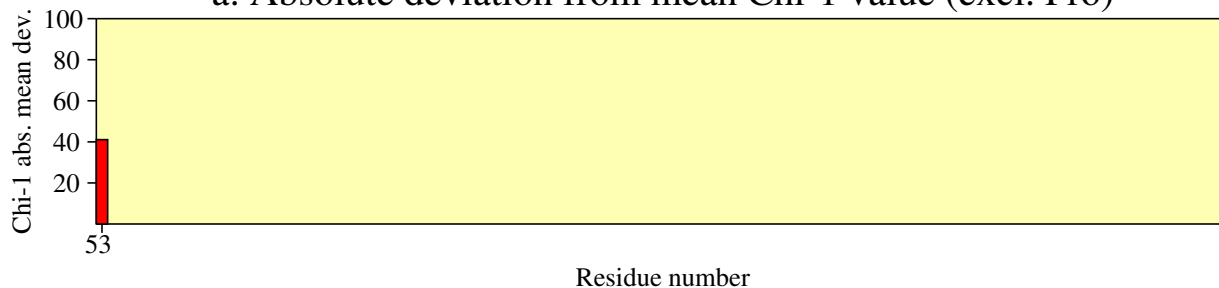


g. G-factors

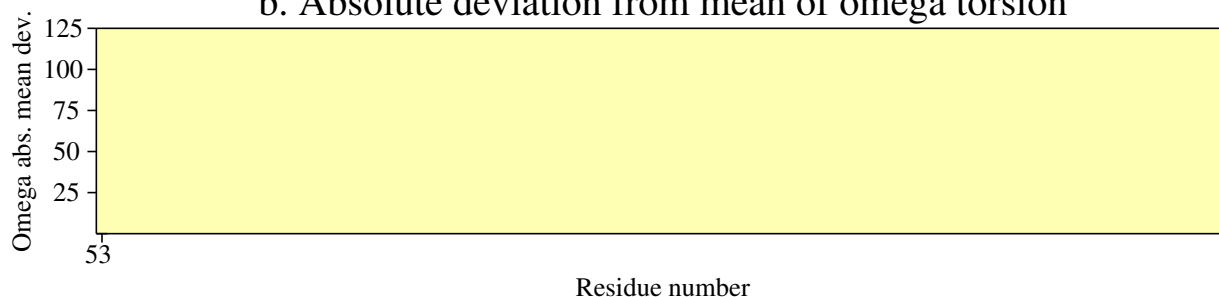


Residue properties pdb1sqx

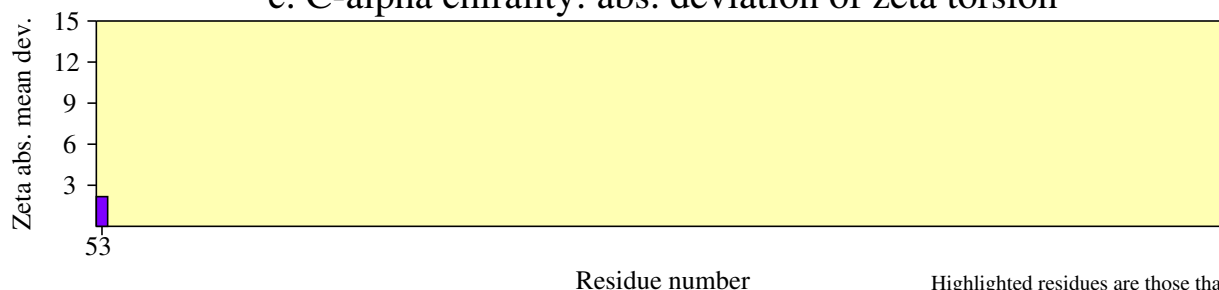
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

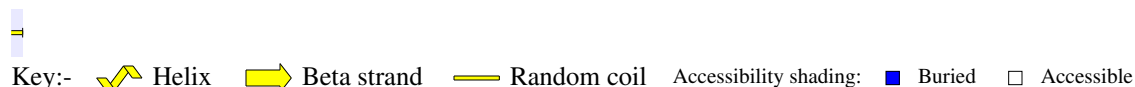


c. C-alpha chirality: abs. deviation of zeta torsion



Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

d. Secondary structure & estimated accessibility



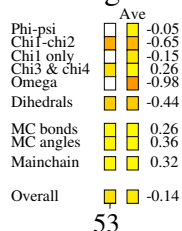
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

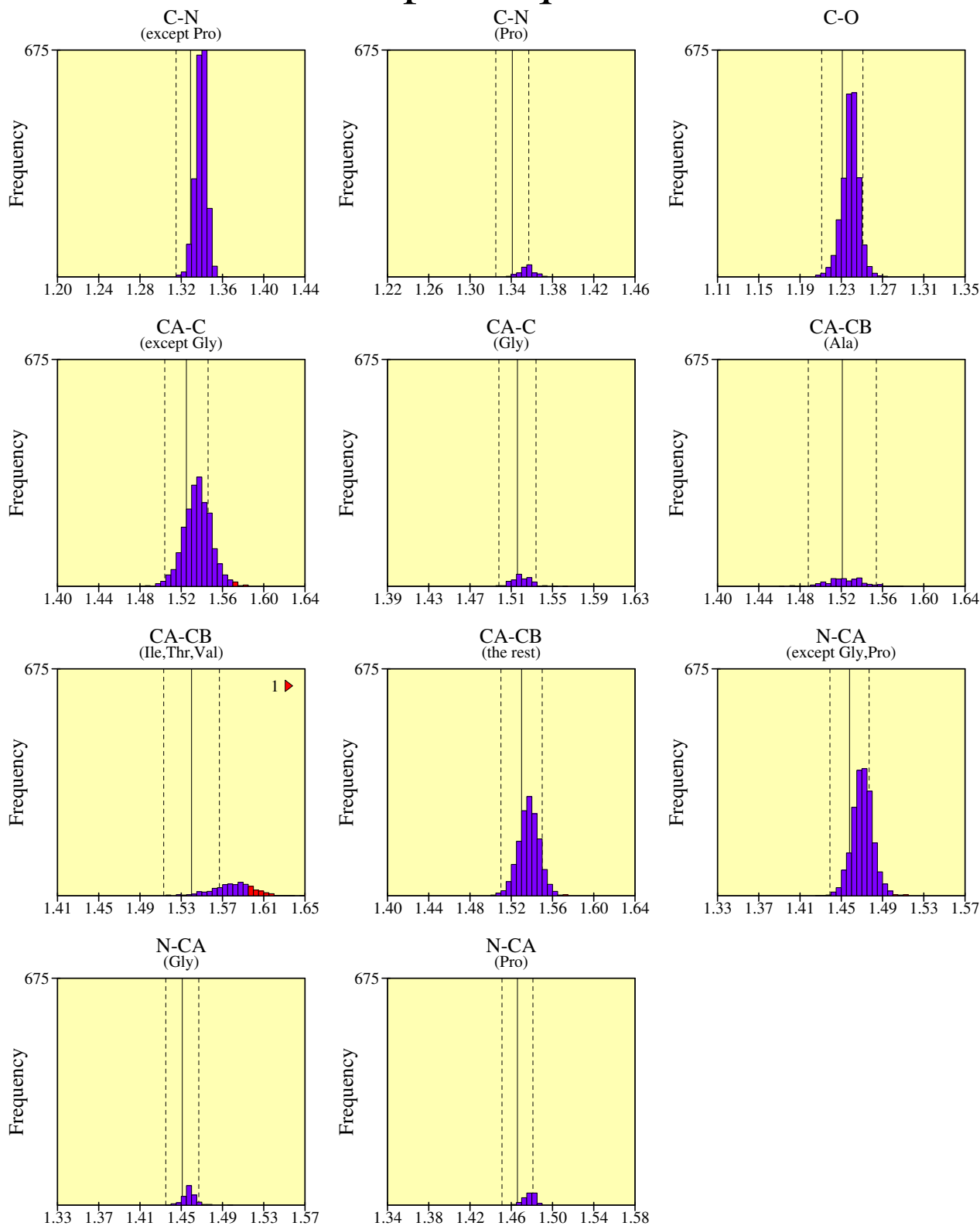
+
*
+

g. G-factors



Main-chain bond lengths

pdb1sqx



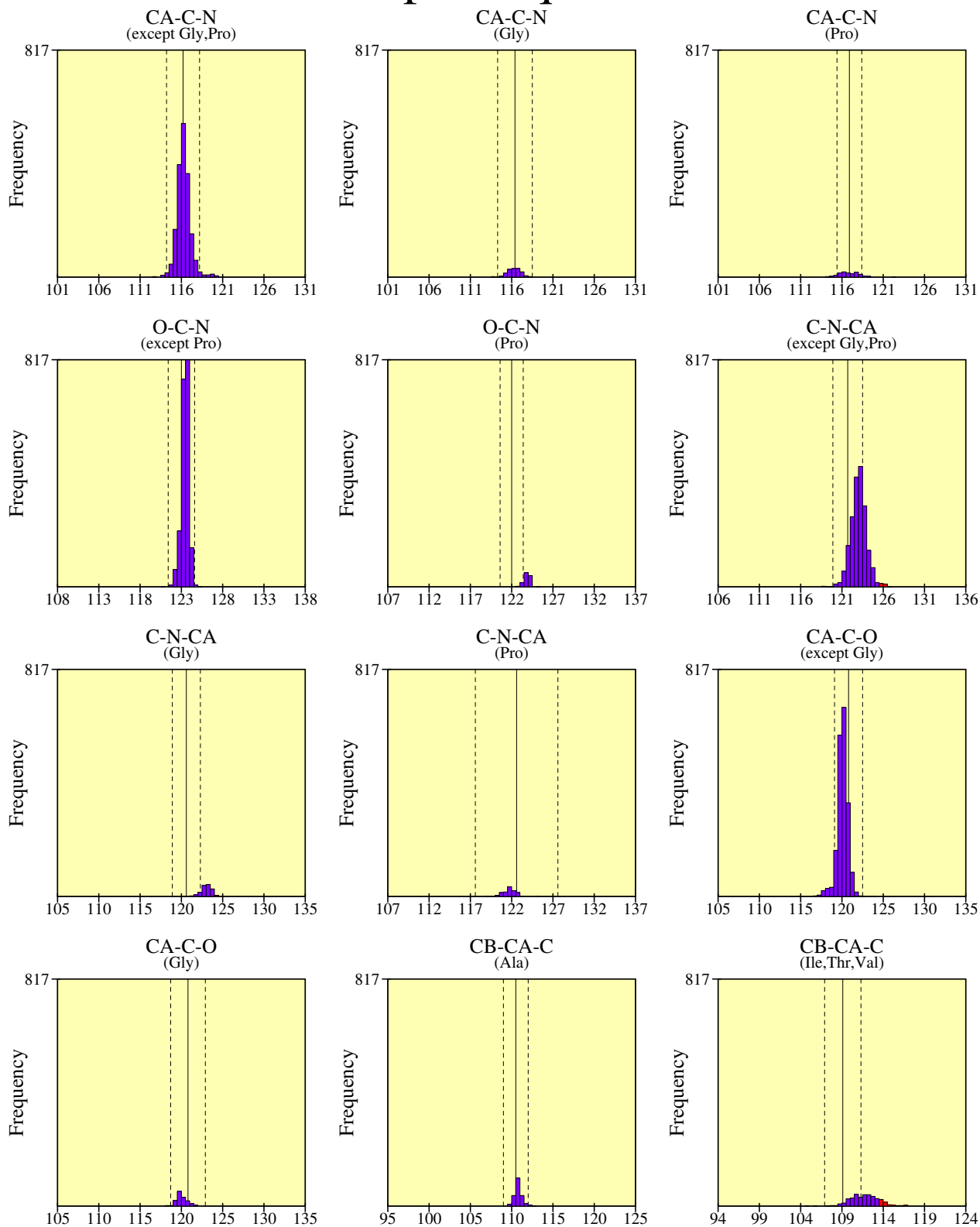
Black bars > 2.0 st. devs. from mean.

◀ or ▶ signifies data points off the graph in the direction shown.

Solid and dashed lines represent the mean and standard deviation values as per Engh & Huber small-molecule data.

Main-chain bond angles

pdb1sqx

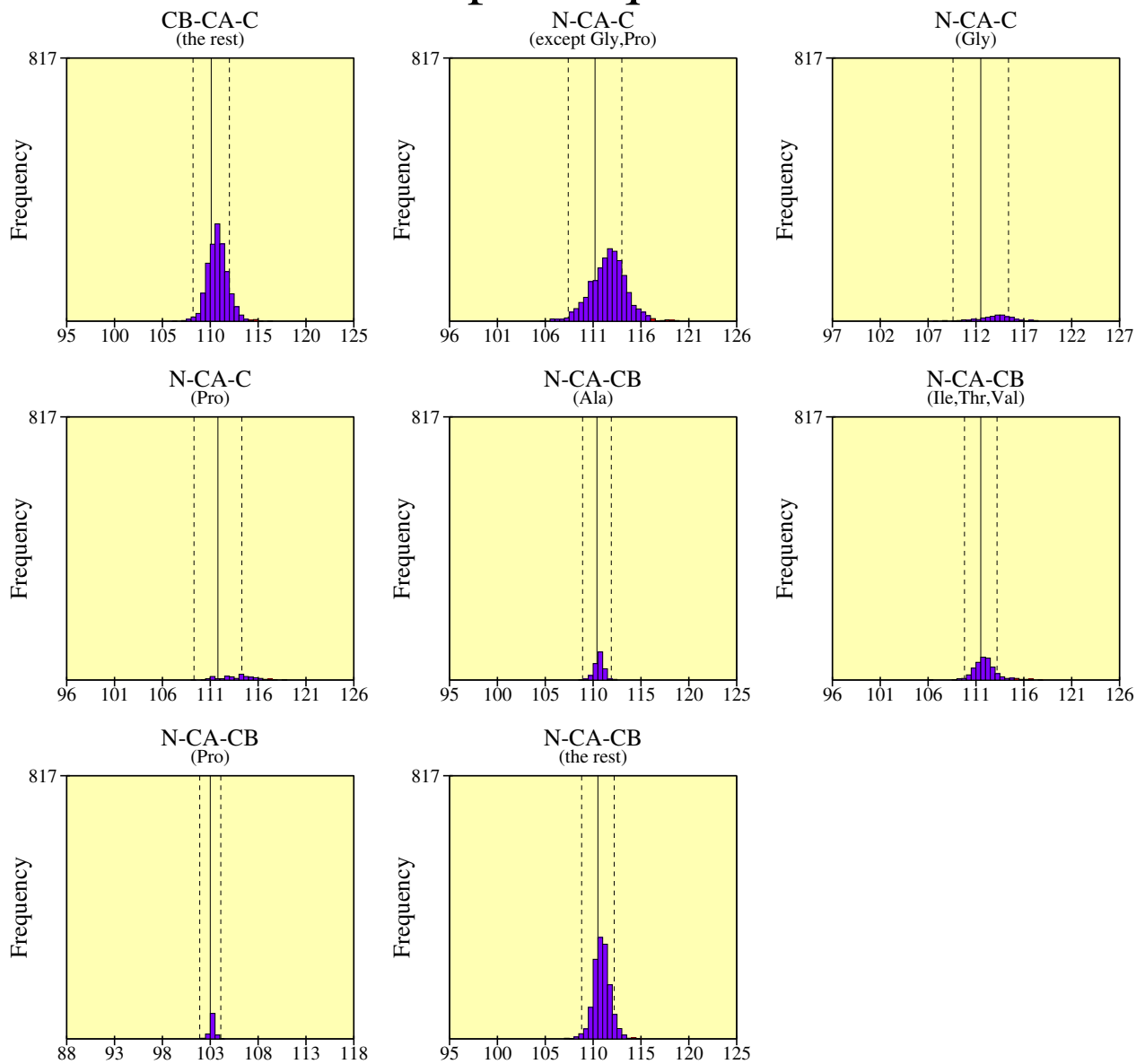


Black bars > 2.0 st. devs. from mean.

Solid and dashed lines represent the mean and standard deviation values as per Engh & Huber small-molecule data.

Main-chain bond angles

pdb1sqx

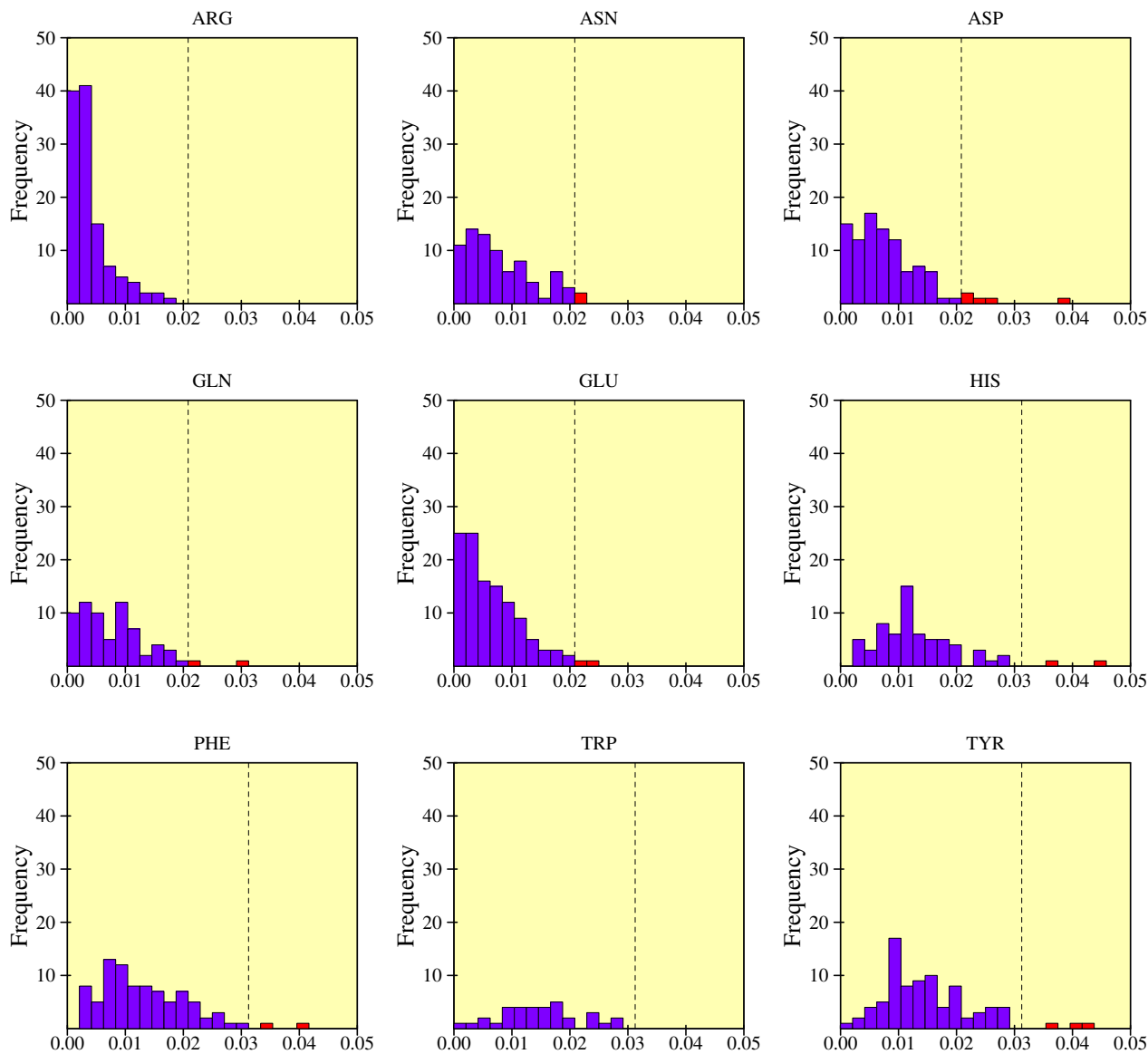


Black bars > 2.0 st. devs. from mean.

Solid and dashed lines represent the mean and standard deviation values as per Engh & Huber small-molecule data.

RMS distances from planarity

pdb1sqx



Histograms showing RMS distances of planar atoms from best-fit plane.
 Black bars indicate large deviations from planarity: RMS dist > 0.03 for rings, and > 0.02 otherwise.

Distorted geometry

pdb1sqx

Main-chain bond lengths

N 1.458 CA 0.053 1.511 A Thr 1	CA 1.540 CB 0.052 1.592 A Val 16	CA 1.540 CB 0.050 1.590 A Ile 116	CA 1.540 CB 0.122 1.662 A Ile 127	CA 1.540 CB 0.055 1.595 A Val 148	CA 1.540 CB 0.074 1.614 A Val 149
N 1.458 CA 0.056 1.514 A Val 149	CA 1.540 CB 0.058 1.598 A Val 196	CA 1.540 CB 0.065 1.605 A Val 228	CA 1.540 CB 0.055 1.595 A Val 272	CA 1.540 CB 0.060 1.600 A Ile 276	CA 1.540 CB 0.052 1.592 A Ile 277
CA 1.540 CB 0.065 1.605 A Ile 297	CA 1.540 CB 0.051 1.591 A Val 422	CA 1.540 CB 0.053 1.593 B Val 17	CA 1.540 CB 0.058 1.598 B Ile 47	CA 1.540 CB 0.057 1.597 B Ile 85	CA 1.540 CB 0.074 1.613 B Thr 108
CA 1.540 CB 0.058 1.598 B Val 109	CA 1.540 CB 0.056 1.596 B Ile 118	CA 1.525 C 0.055 1.580 B Ala 129	CA 1.540 CB 0.079 1.619 B Ile 146	CA 1.540 CB 0.057 1.597 B Val 186	CA 1.540 CB 0.074 1.614 B Val 189
CA 1.540 CB 0.056 1.596 B Val 215	CA 1.540 CB 0.051 1.591 B Val 219	CA 1.540 CB 0.069 1.609 B Ile 226	CA 1.540 CB 0.073 1.613 B Ile 244	CA 1.540 CB 0.053 1.593 B Val 303	CA 1.540 CB 0.076 1.616 B Thr 397
CA 1.540 CB 0.059 1.599 B Val 418	CA 1.540 CB 0.064 1.604 C Ile 13	CA 1.540 CB 0.075 1.615 C Ile 39	CA 1.540 CB 0.066 1.606 C Ile 42	CA 1.540 CB 0.066 1.605 C Thr 56	CA 1.540 CB 0.050 1.590 C Ile 79
CA 1.540 CB 0.071 1.610 C Ile 92	CA 1.540 CB 0.064 1.604 C Ile 118	CA 1.540 CB 0.051 1.591 C Val 132	CA 1.521 CB 0.061 1.460 C Ala 152	CA 1.540 CB 0.052 1.592 C Ile 164	CA 1.540 CB 0.057 1.597 C Ile 184
CA 1.540 CB 0.054 1.594 C Ile 192	CA 1.540 CB 0.055 1.595 C Val 195	CA 1.540 CB 0.054 1.594 C Ile 226	CA 1.540 CB 0.070 1.610 C Ile 236	CA 1.540 CB 0.068 1.608 C Val 243	CA 1.521 CB 0.055 1.576 C Ala 246
CA 1.540 CB 0.095 1.635 C Thr 336	CA 1.540 CB 0.055 1.595 C Ile 338	CA 1.540 CB 0.063 1.603 C Val 343	CA 1.540 CB 0.061 1.601 C Ile 348	CA 1.540 CB 0.090 1.630 C Ile 350	CA 1.540 CB 0.060 1.600 C Val 356
CA 1.540 CB 0.054 1.594 C Ile 362	CA 1.540 CB 0.052 1.592 C Val 364	CA 1.540 CB 0.050 1.590 D Val 36	CA 1.540 CB 0.051 1.590 D Val 46	CA 1.540 CB 0.069 1.609 D Val 52	CA 1.540 CB 0.052 1.592 D Val 70
CA 1.540 CB 0.064 1.604 D Ile 116	CA 1.540 CB 0.052 1.592 D Val 127	CA 1.540 CB 0.061 1.601 D Val 141	CA 1.540 CB 0.065 1.605 D Ile 158	CA 1.540 CB 0.052 1.592 D Val 168	CA 1.540 CB 0.050 1.590 D Val 186

Distorted geometry

pdb1sqx

Main-chain bond lengths (contd)

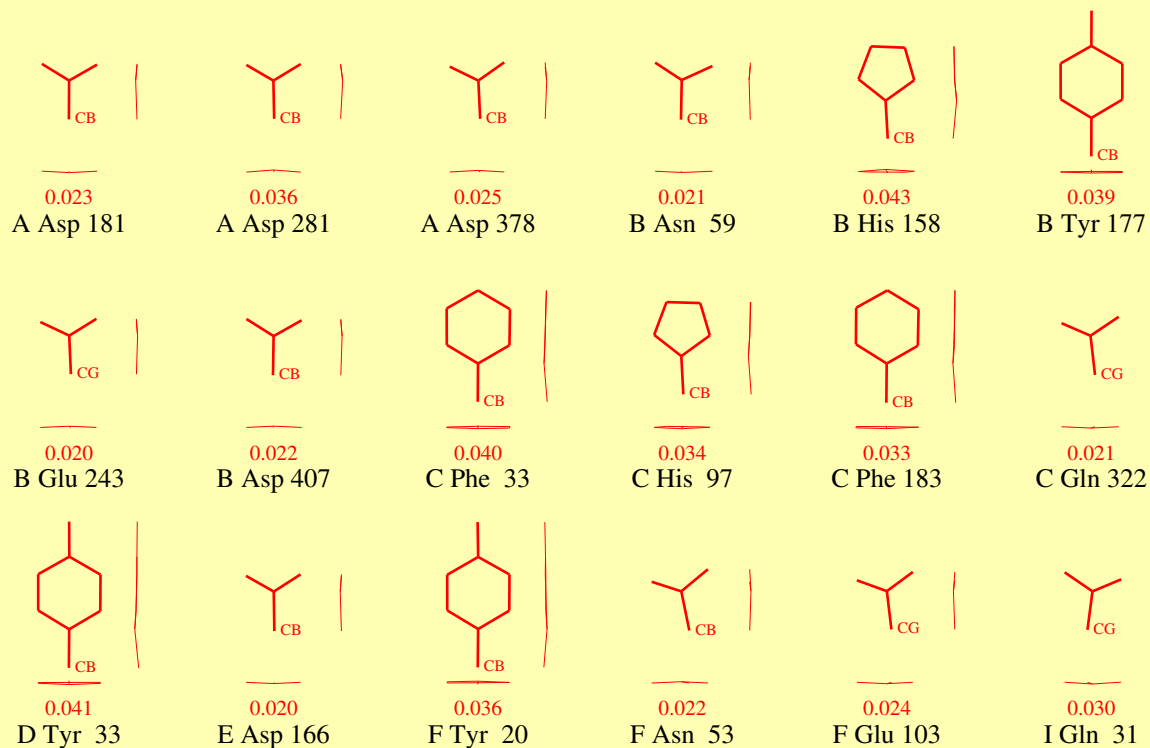
CA 1.540 CB 0.054 1.594 D Val 219	CA 1.540 CB 0.050 1.590 D Val 229	CA 1.525 C 0.053 1.578 E Val 18	CA 1.540 CB 0.057 1.597 E Thr 22	CA 1.540 CB 0.068 1.608 E Thr 40	CA 1.540 CB 0.059 1.599 E Val 45
CA 1.540 CB 0.051 1.591 E Val 47	CA 1.540 CB 0.054 1.594 E Val 55	CA 1.540 CB 0.062 1.602 E Val 59	CA 1.540 CB 0.056 1.596 E Val 68	CA 1.540 CB 0.062 1.602 E Ile 74	CA 1.540 CB 0.057 1.597 E Ile 76
CA 1.540 CB 0.056 1.596 E Ile 106	CA 1.540 CB 0.051 1.591 E Val 112	CA 1.540 CB 0.057 1.597 E Val 114	CA 1.540 CB 0.055 1.595 E Val 133	CA 1.540 CB 0.069 1.609 E Ile 147	CA 1.540 CB 0.067 1.607 E Ile 171
CA 1.540 CB 0.064 1.604 E Val 182	CA 1.540 CB 0.053 1.593 E Val 193	CA 1.540 CB 0.061 1.601 E Ile 194	CA 1.540 CB 0.057 1.597 E Val 195	CA 1.540 CB 0.069 1.609 F Val 6	CA 1.540 CB 0.065 1.605 F Ile 16
CA 1.540 CB 0.053 1.592 F Thr 36	CA 1.540 CB 0.107 1.646 F Val 59	CA 1.540 CB 0.063 1.603 F Thr 81	CA 1.540 CB 0.050 1.590 F Ile 98	CA 1.540 CB 0.062 1.602 G Val 10	CA 1.540 CB 0.072 1.612 G Ile 34
CA 1.540 CB 0.081 1.620 G Val 37	CA 1.540 CB 0.055 1.595 G Val 48	CA 1.540 CB 0.059 1.599 G Val 53	CA 1.525 C 0.059 1.584 G Asn 73	CA 1.521 CB 0.053 1.574 G Ala 75	CA 1.540 CB 0.060 1.600 H Val 14
CA 1.540 CB 0.063 1.603 H Val 20	CA 1.540 CB 0.058 1.598 H Val 31	CA 1.540 CB 0.057 1.597 H Val 44	CA 1.540 CB 0.053 1.593 H Thr 50	CA 1.540 CB 0.059 1.599 H Val 69	N 1.458 CA 0.055 1.513 I Met 1
CA 1.540 CB 0.070 1.610 I Val 4	CA 1.540 CB 0.065 1.605 I Val 22	CA 1.525 C 0.059 1.584 I Arg 27	CA 1.540 CB 0.077 1.617 I Val 30	CA 1.525 C 0.051 1.576 I Val 34	CA 1.540 CB 0.057 1.597 I Val 34
CA 1.540 CB 0.052 1.592 I Thr 37	CA 1.540 CB 0.090 1.630 I Val 42	CA 1.525 C 0.055 1.580 I Leu 45	CA 1.540 CB 0.071 1.611 I Val 49	CA 1.540 CB 0.054 1.594 J Val 26	CA 1.540 CB 0.079 1.619 J Ile 42
CA 1.540 CB 0.066 1.606 J Ile 46	CA 1.540 CB 0.056 1.596 J Ile 55	CA 1.540 CB 0.072 1.612 K Val 18	CA 1.540 CB 0.058 1.598 K Val 33	CA 1.540 CB 0.060 1.600 K Val 45	CA 1.540 CB 0.080 1.620 K Ile 48

Bonds differing by > 0.05A from small-molecule values. Values shown: "ideal", difference, actual

Distorted geometry

pdb1sqx

Planar groups



Sidechains with RMS dist. from planarity > 0.03A for rings, or > 0.02A otherwise. Value shown is RMS dist.