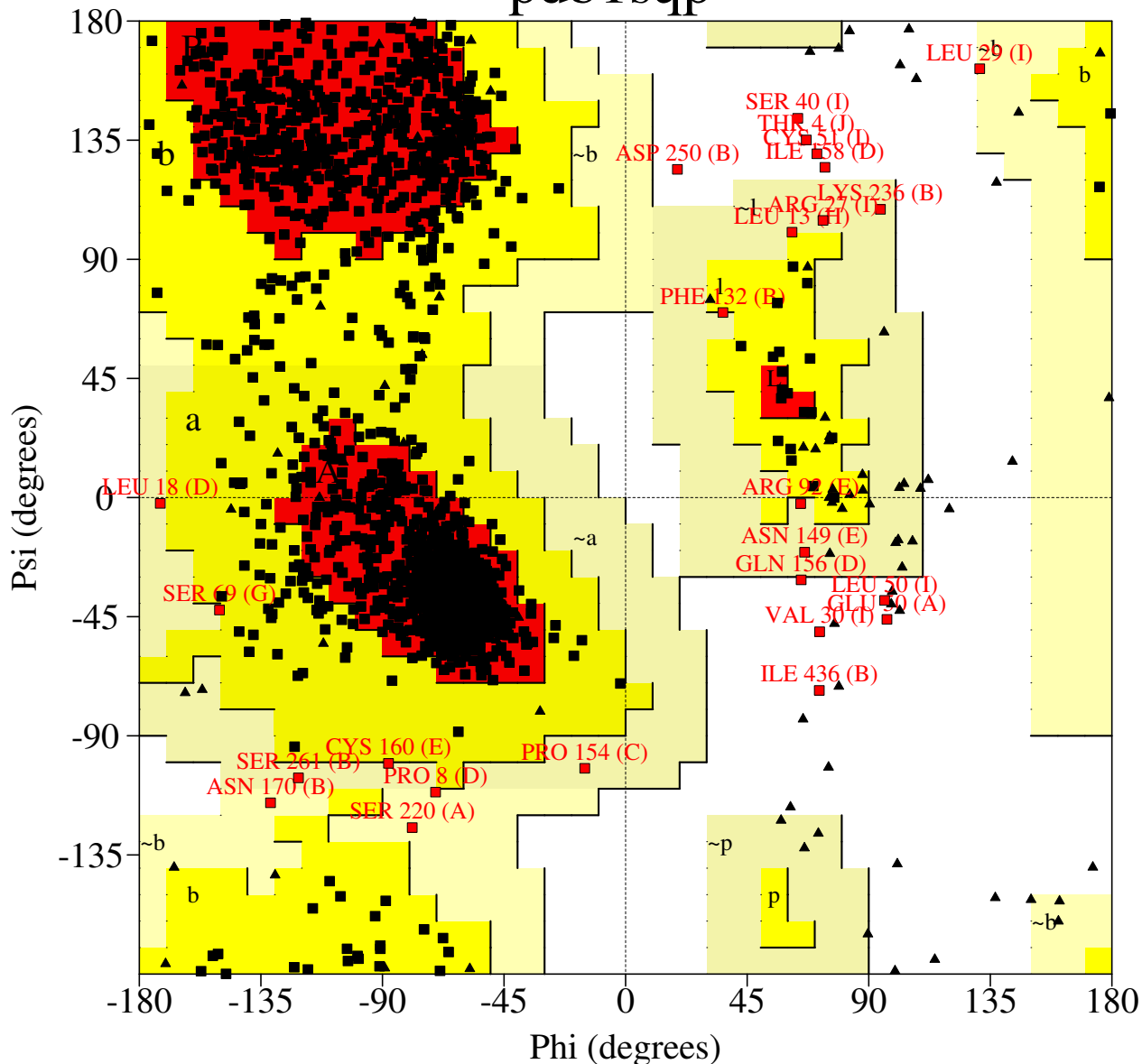


Ramachandran Plot

pdb1sqp



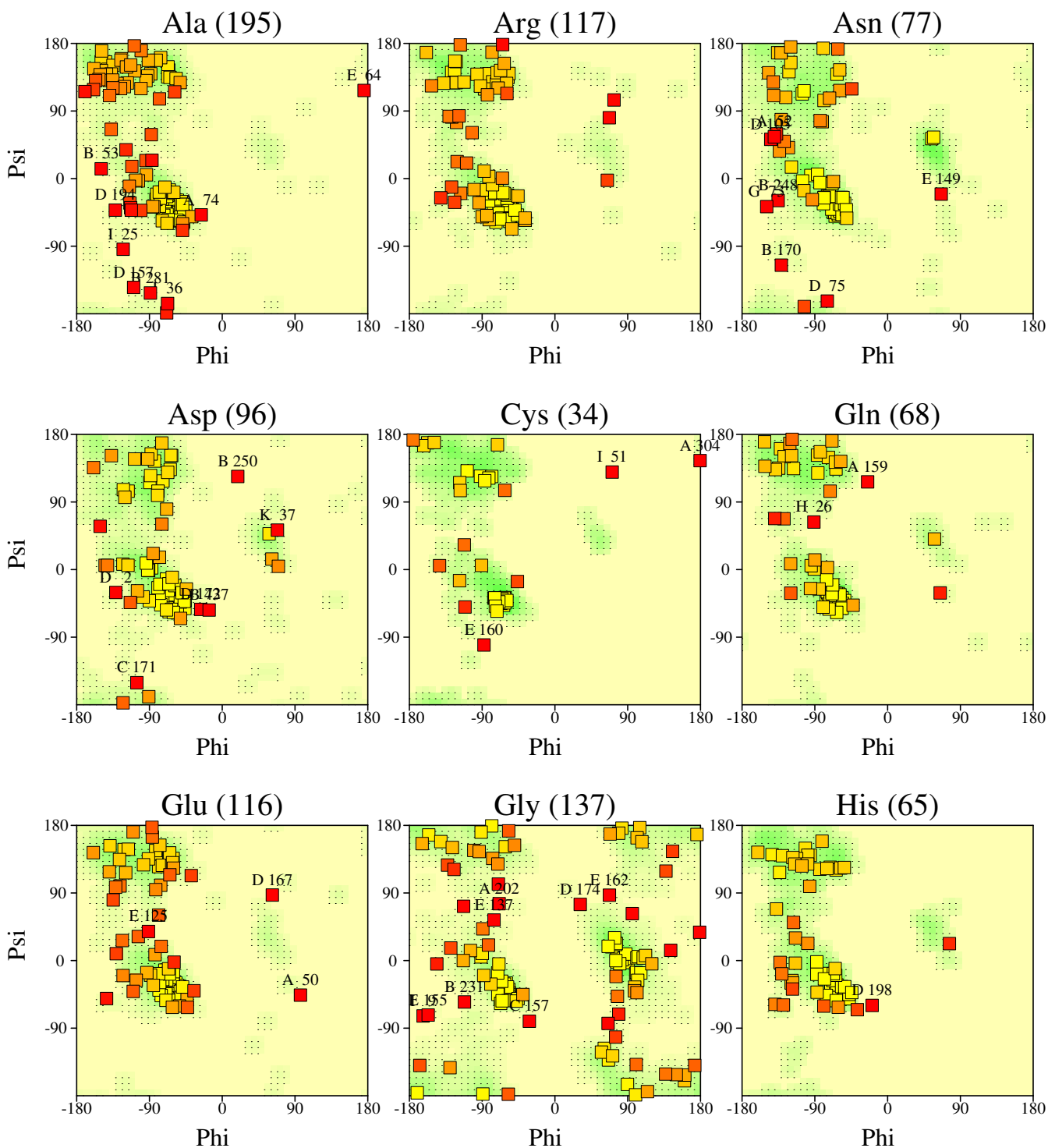
Plot statistics

| | | |
|--|------|--------|
| Residues in most favoured regions [A,B,L] | 1603 | 87.4% |
| Residues in additional allowed regions [a,b,l,p] | 208 | 11.3% |
| Residues in generously allowed regions [-a,-b,-l,-p] | 13 | 0.7% |
| Residues in disallowed regions | 10 | 0.5% |
| ----- | | |
| Number of non-glycine and non-proline residues | 1834 | 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 | 2102 | |

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

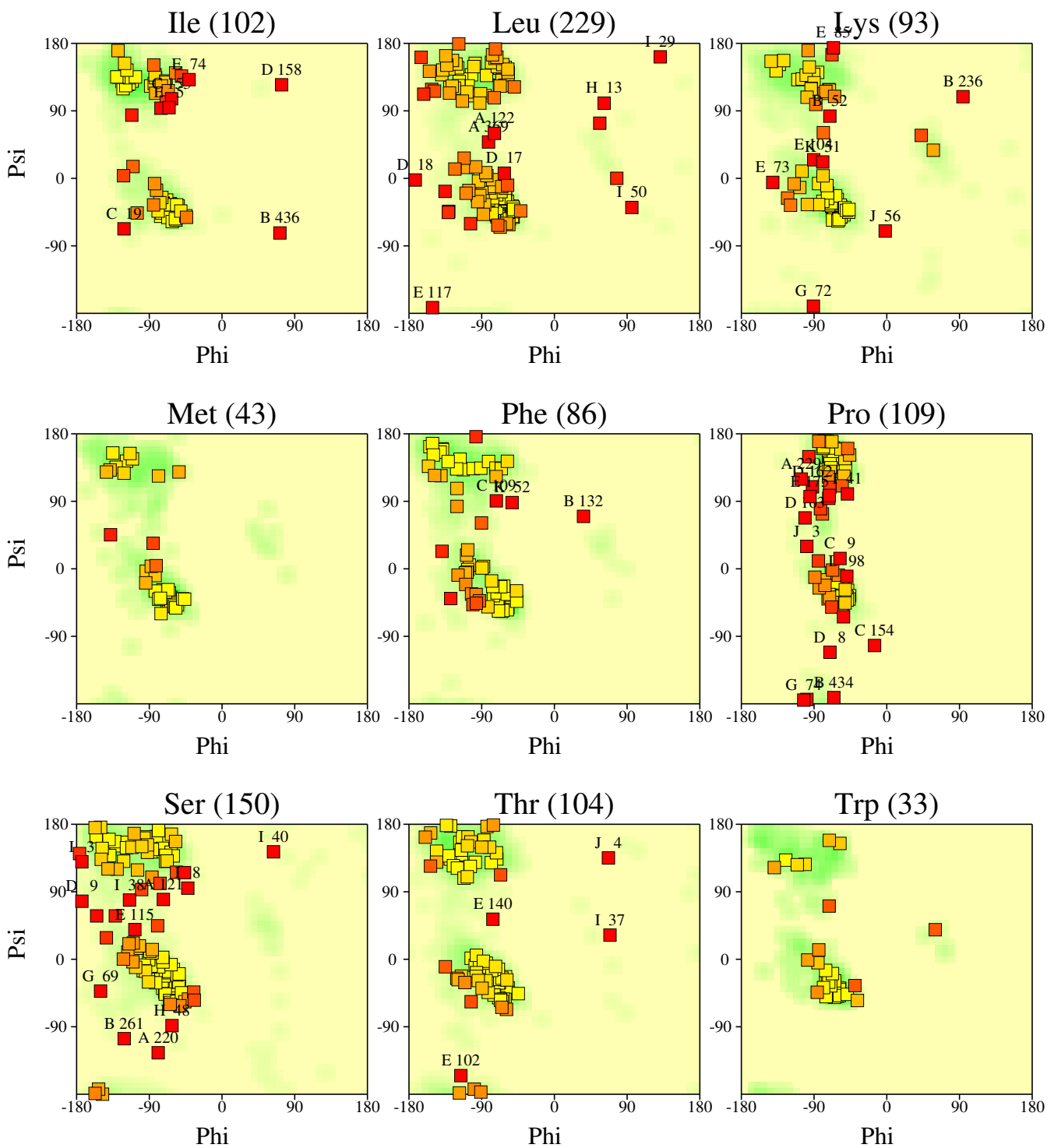
pdb1sqp



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

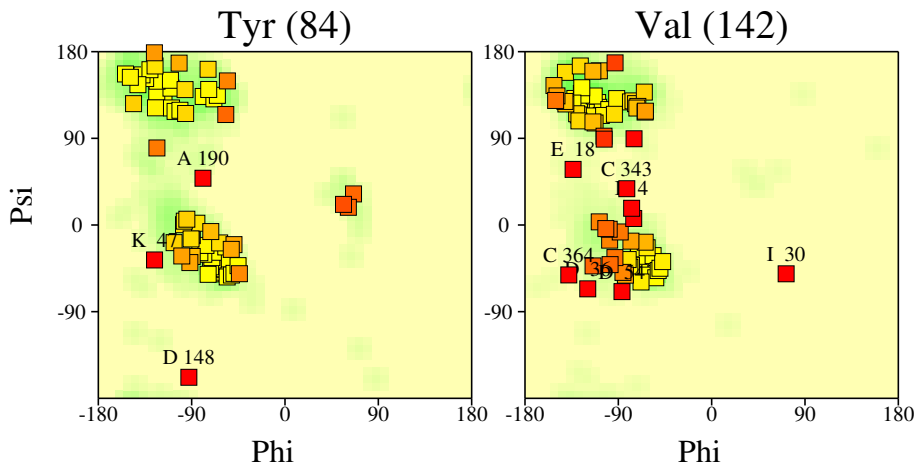
pdb1sqp



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

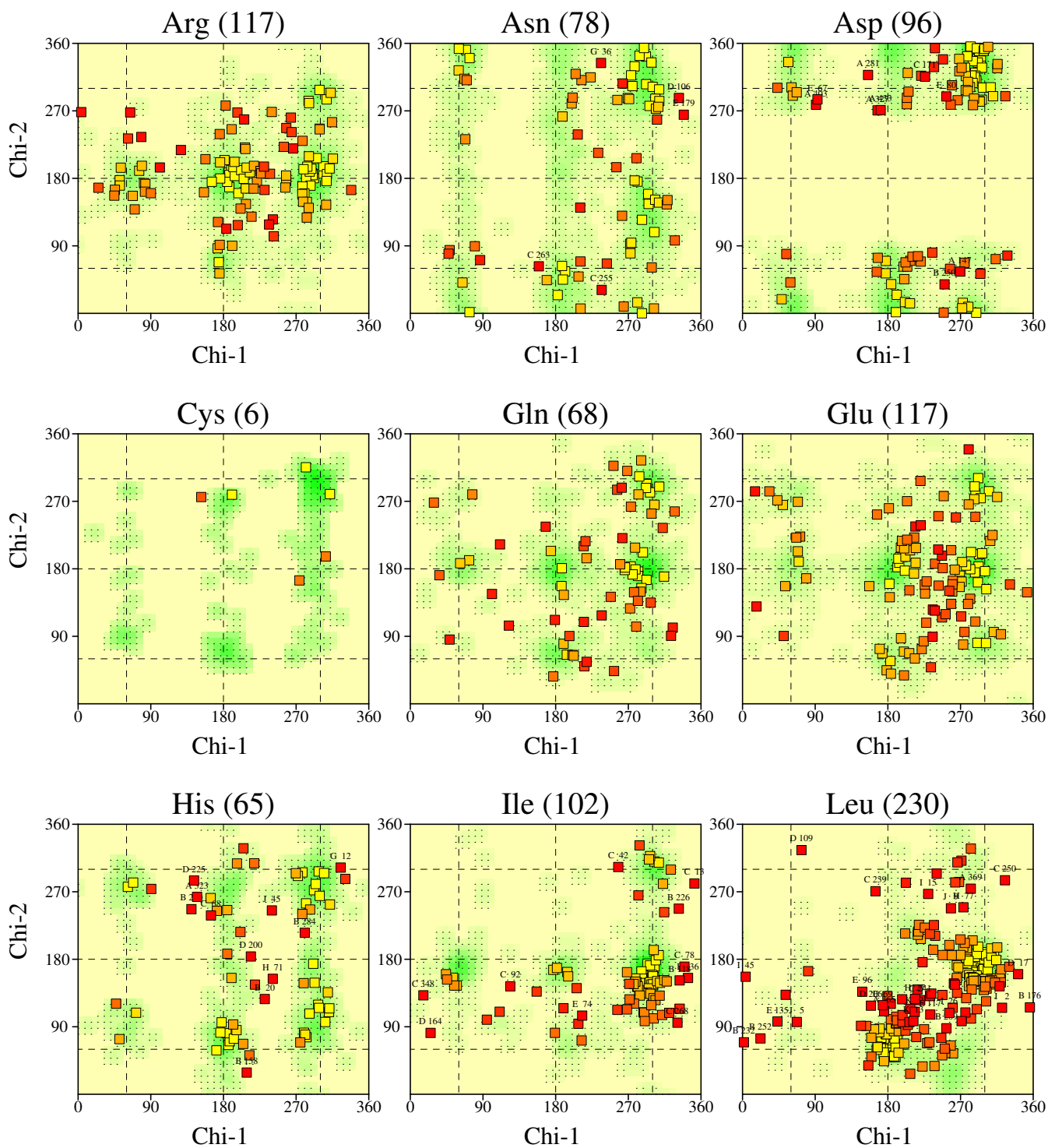
pdb1sqp



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

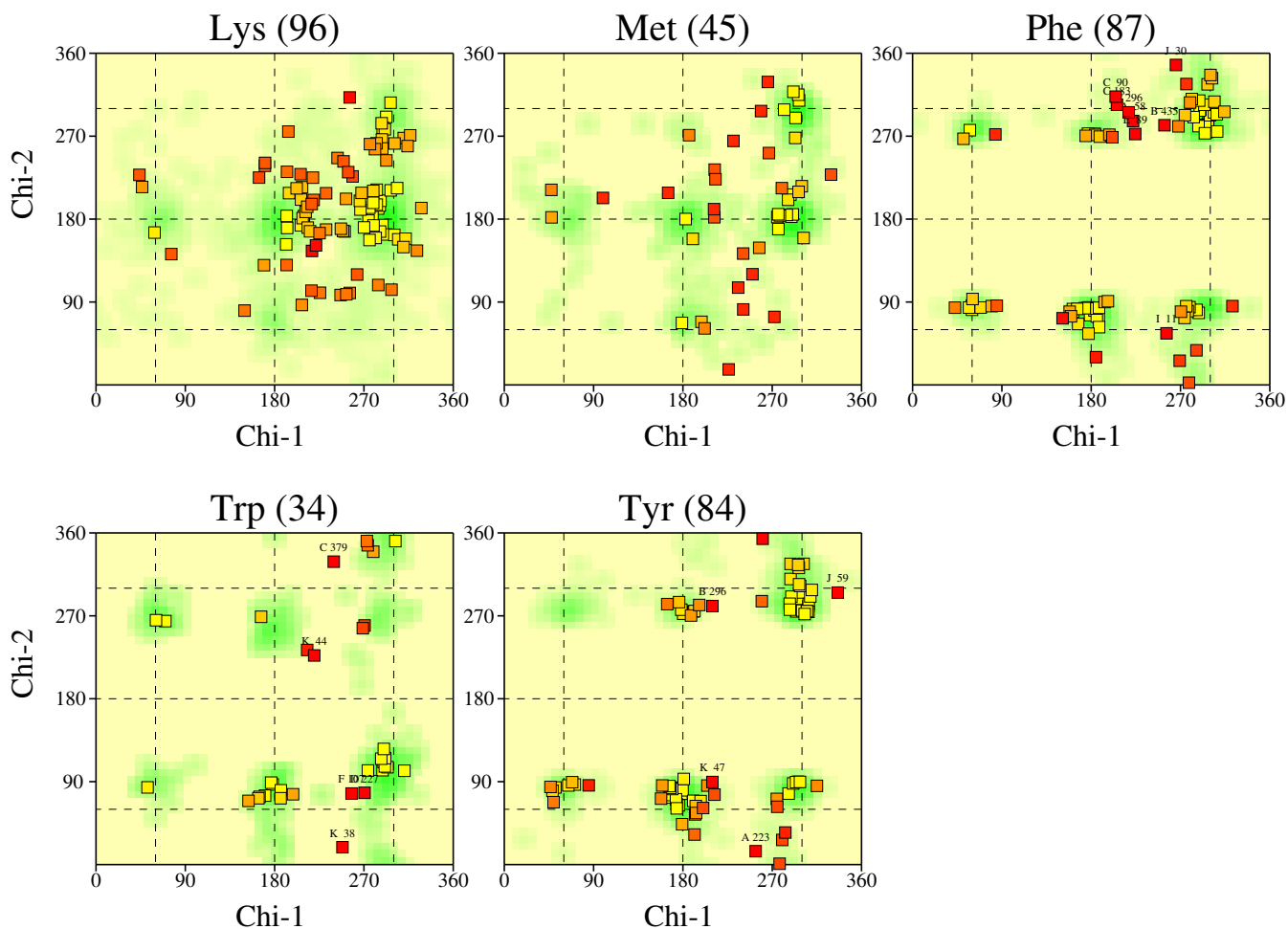
pdb1sqp



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 2.0Å or better.

Chi1-Chi2 plots

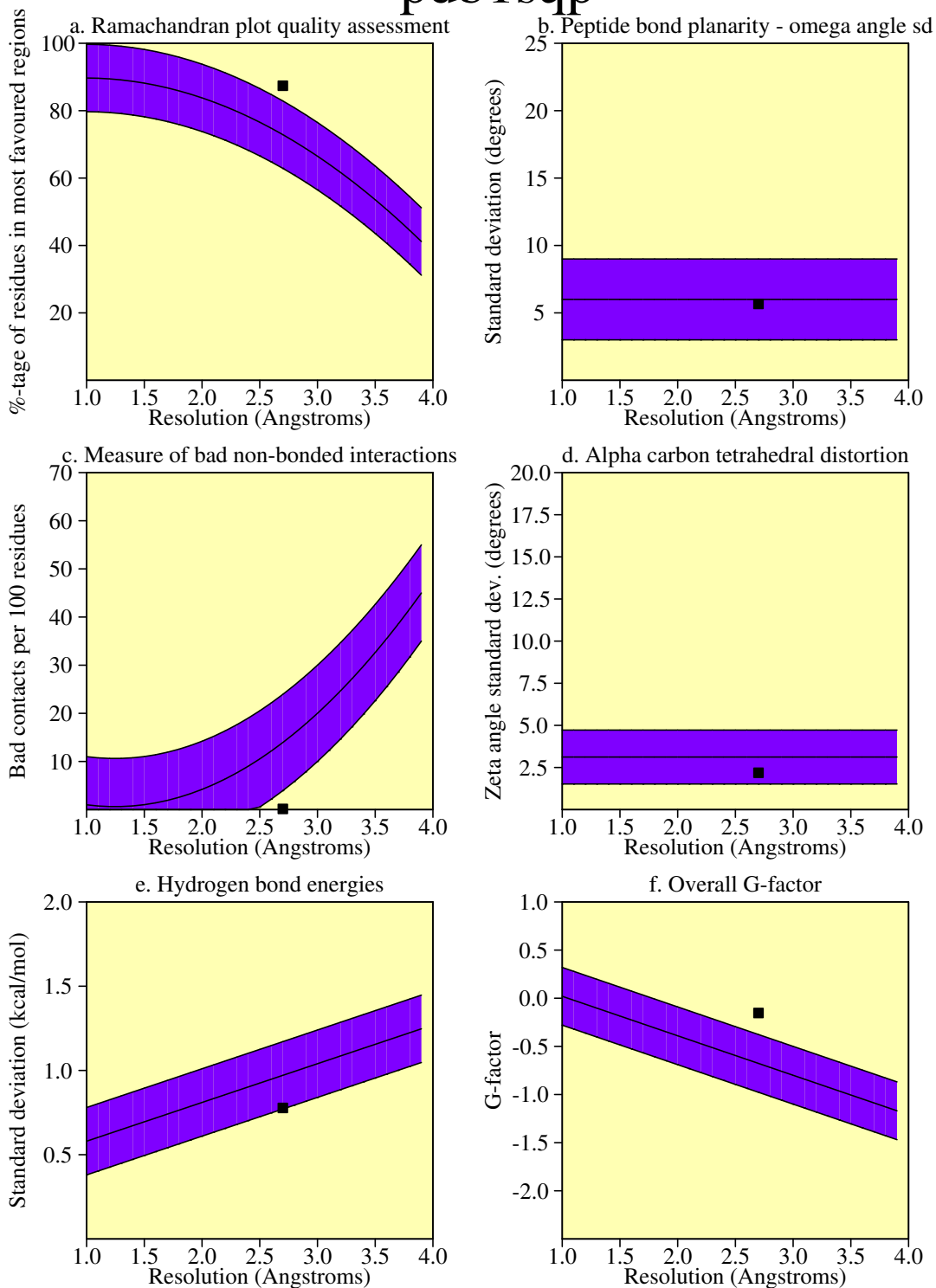
pdb1sqp



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

pdb1sqp

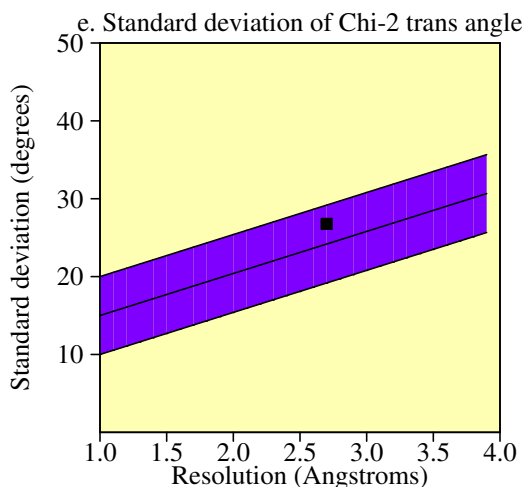
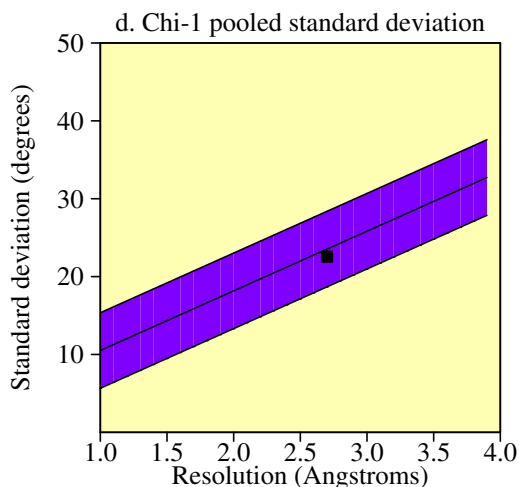
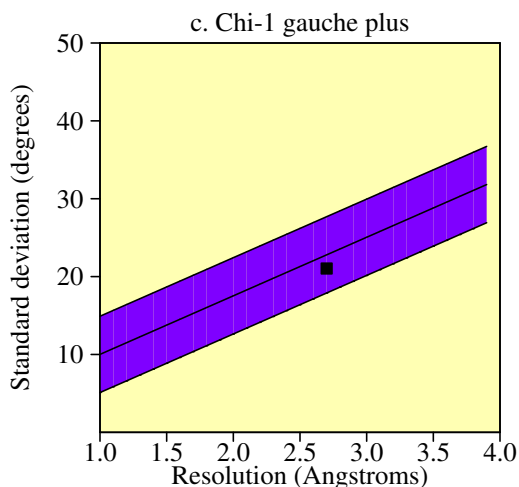
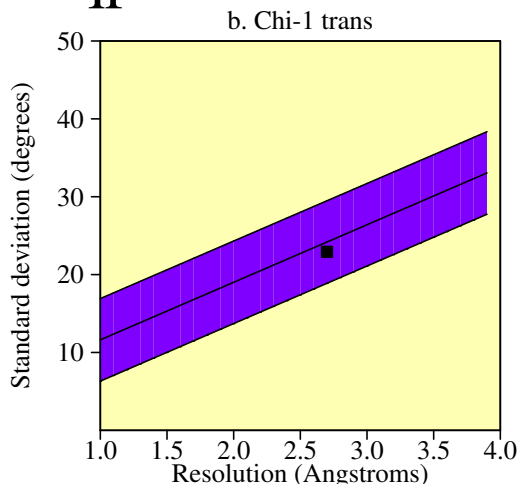
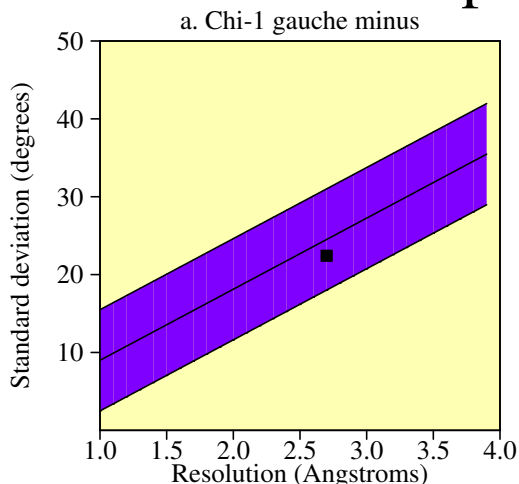


Plot statistics

| 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 | 1834 | 87.4 | 72.9 | 10.0 | 1.5 | BETTER |
| b. Omega angle st dev | 2089 | 5.7 | 6.0 | 3.0 | -0.1 | Inside |
| c. Bad contacts / 100 residues | 3 | 0.1 | 13.9 | 10.0 | -1.4 | BETTER |
| d. Zeta angle st dev | 1961 | 2.2 | 3.1 | 1.6 | -0.6 | Inside |
| e. H-bond energy st dev | 1368 | 0.8 | 1.0 | 0.2 | -1.0 | Inside |
| f. Overall G-factor | 2102 | -0.2 | -0.7 | 0.3 | 1.7 | BETTER |

Side-chain parameters

pdb1sqp



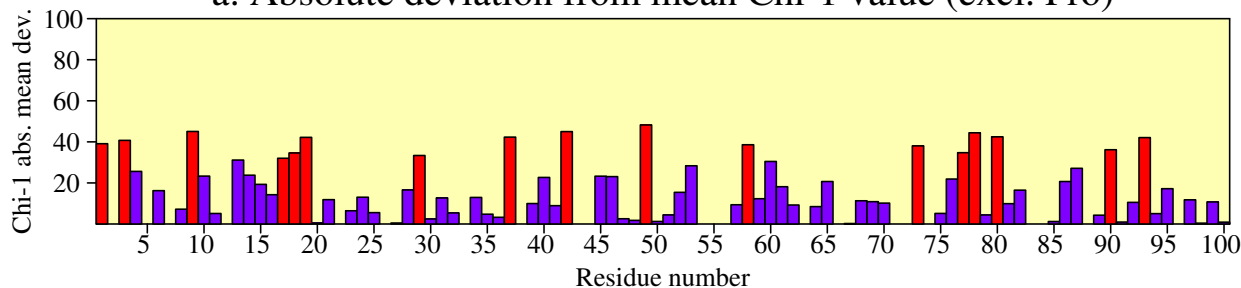
pdb1sqp

Plot statistics

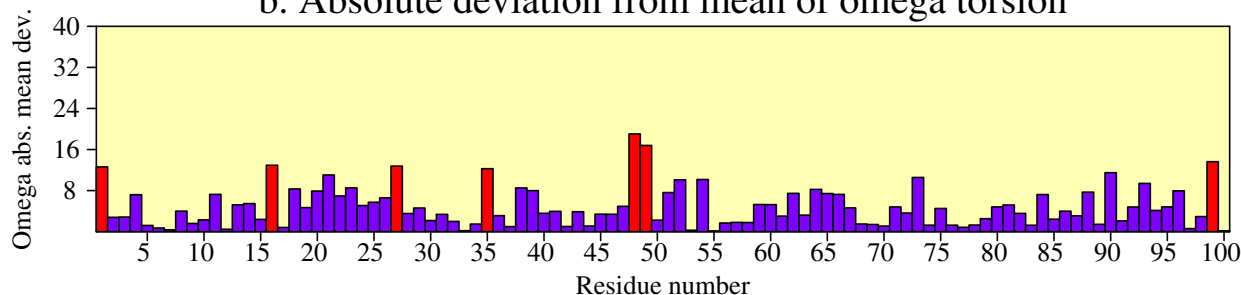
| Stereochemical parameter | No. of data pts | Parameter value | Comparison values | | No. of band widths from mean |
|------------------------------|-----------------|-----------------|-------------------|------------|------------------------------|
| | | | Typical value | Band width | |
| a. Chi-1 gauche minus st dev | 245 | 22.4 | 24.5 | 6.5 | -0.3 Inside |
| b. Chi-1 trans st dev | 600 | 22.9 | 24.2 | 5.3 | -0.2 Inside |
| c. Chi-1 gauche plus st dev | 811 | 21.0 | 22.8 | 4.9 | -0.4 Inside |
| d. Chi-1 pooled st dev | 1656 | 22.6 | 23.5 | 4.8 | -0.2 Inside |
| e. Chi-2 trans st dev | 492 | 26.8 | 24.2 | 5.0 | 0.5 Inside |

Residue properties pdb1sqp

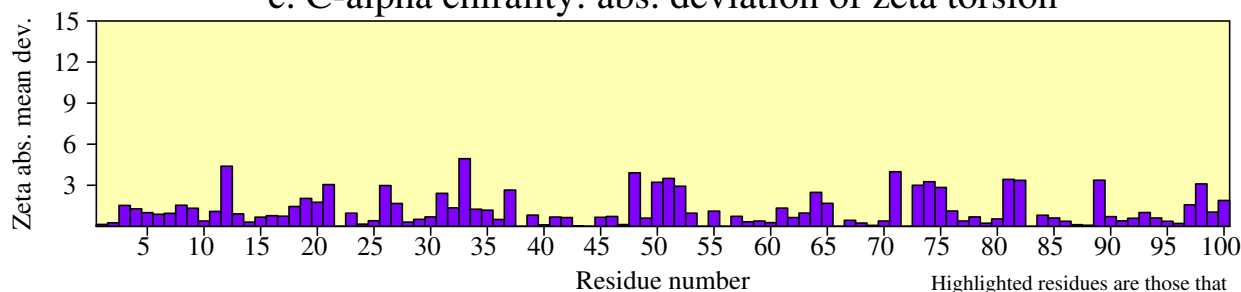
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

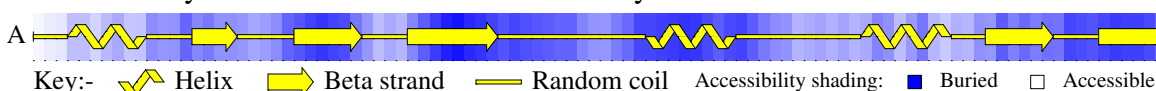


c. C-alpha chirality: abs. deviation of zeta torsion



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

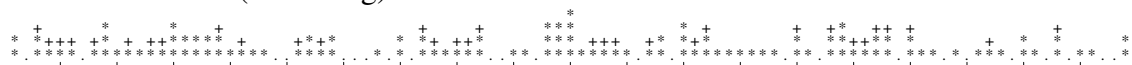
d. Secondary structure & estimated accessibility



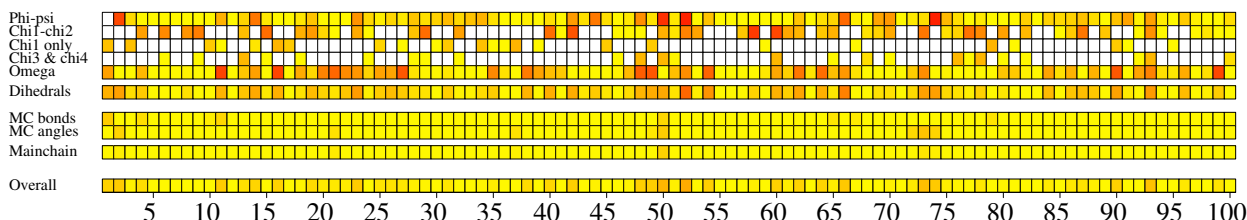
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

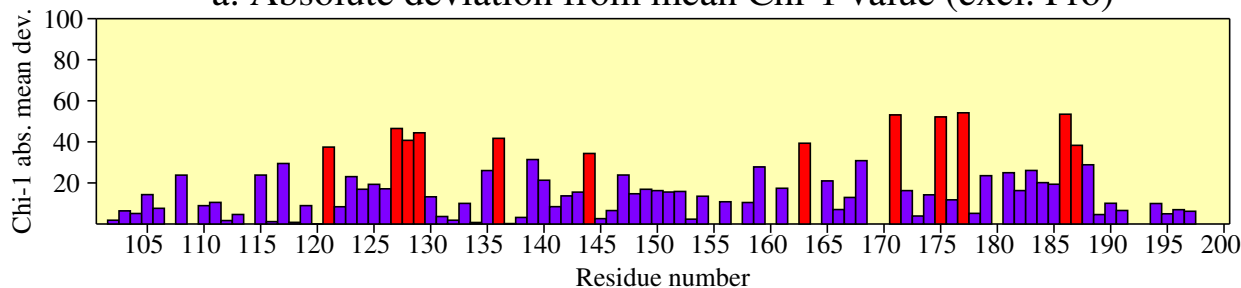


g. G-factors

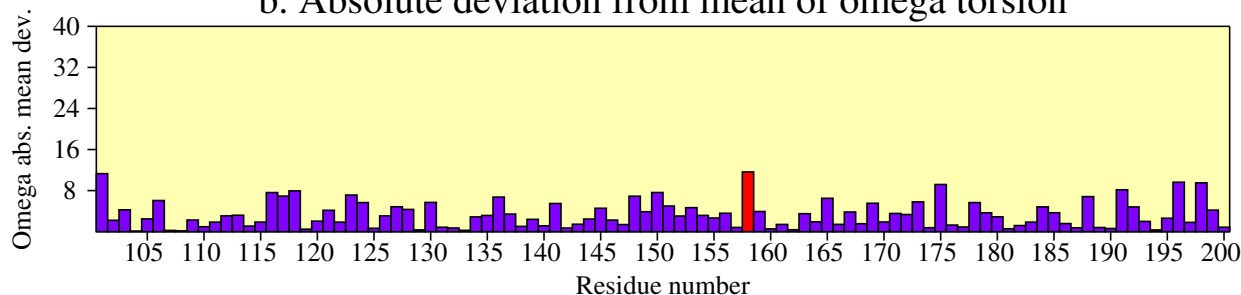


Residue properties pdb1sqp

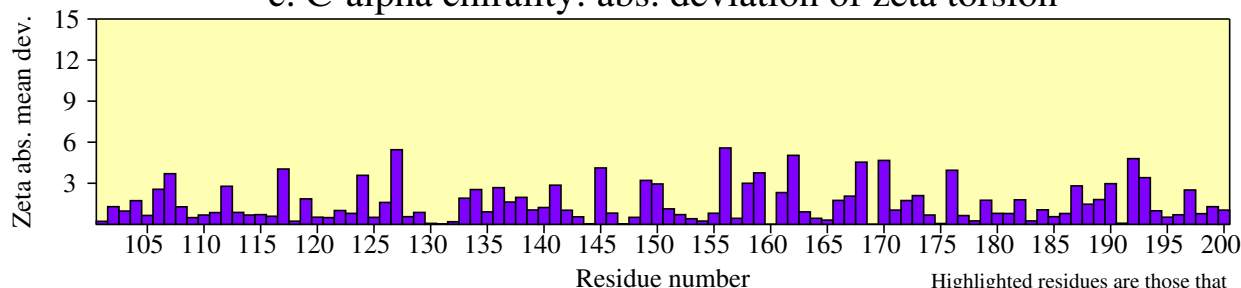
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

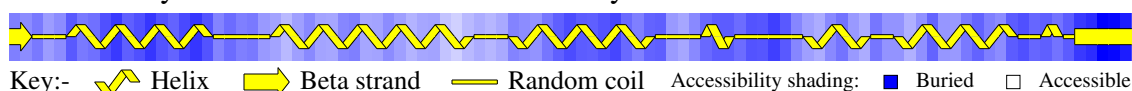


c. C-alpha chirality: abs. deviation of zeta torsion



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

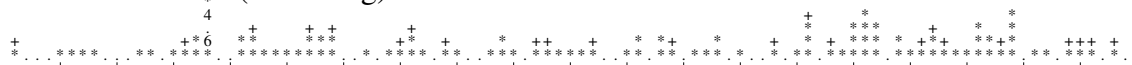
d. Secondary structure & estimated accessibility



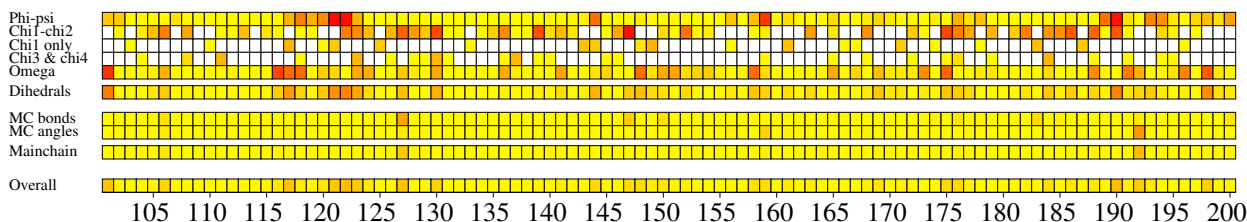
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

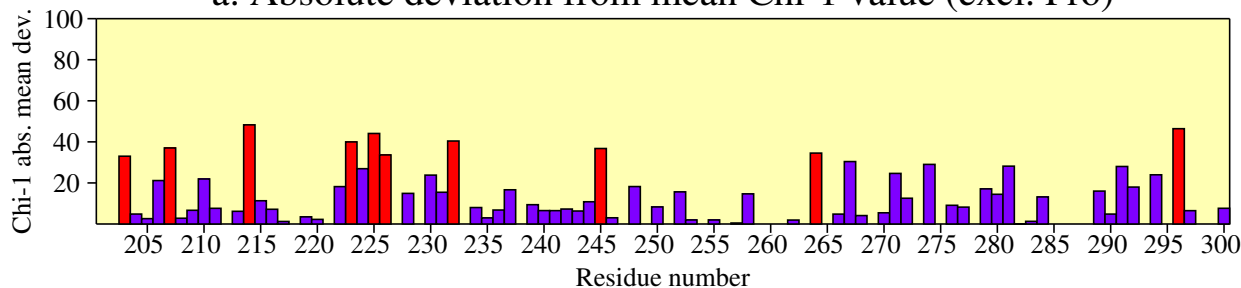


g. G-factors

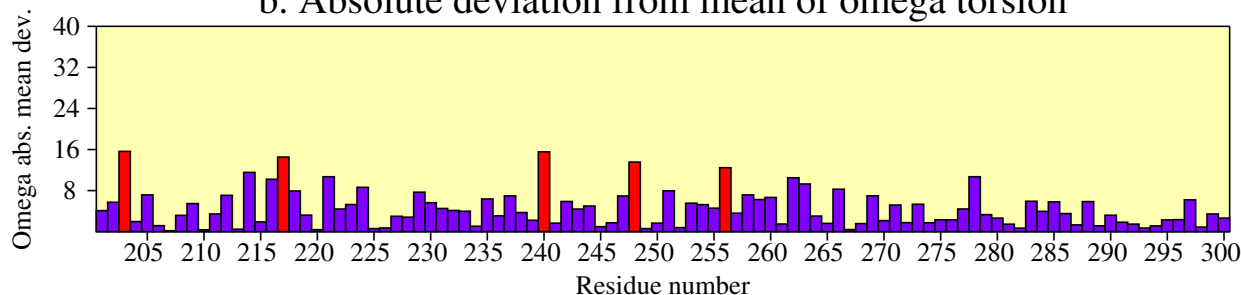


Residue properties pdb1sqp

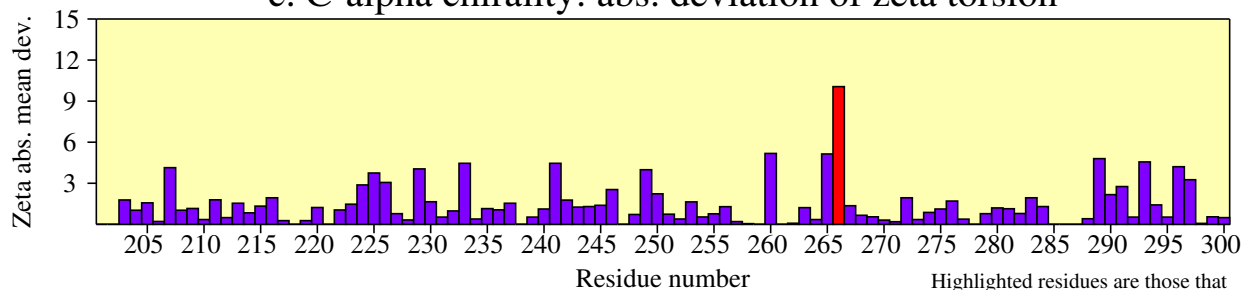
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

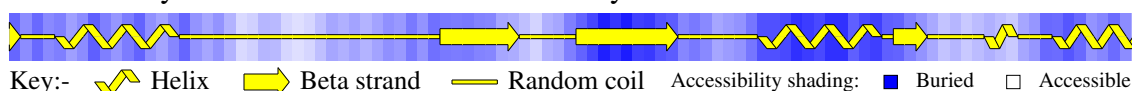


c. C-alpha chirality: abs. deviation of zeta torsion



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

d. Secondary structure & estimated accessibility



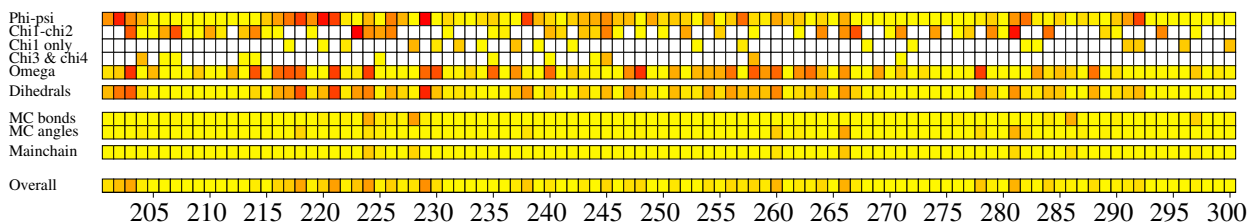
e. Sequence & Ramachandran regions Most favoured Allowed Generous Disallowed



f. Max. deviation (see listing)

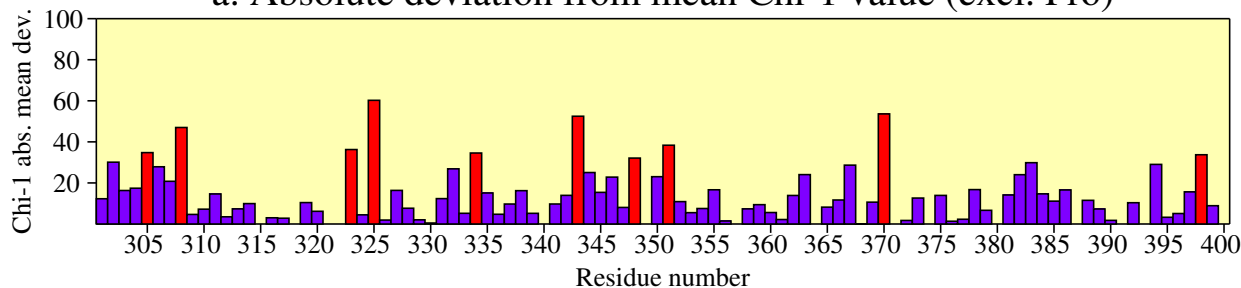


g. G-factors

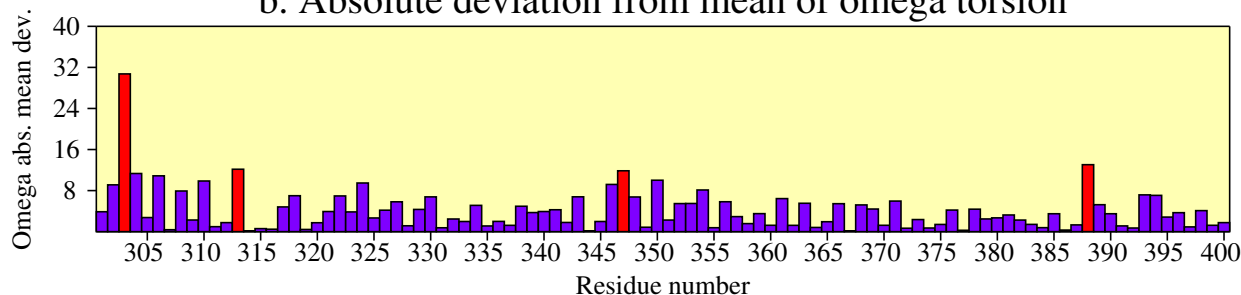


Residue properties pdb1sqp

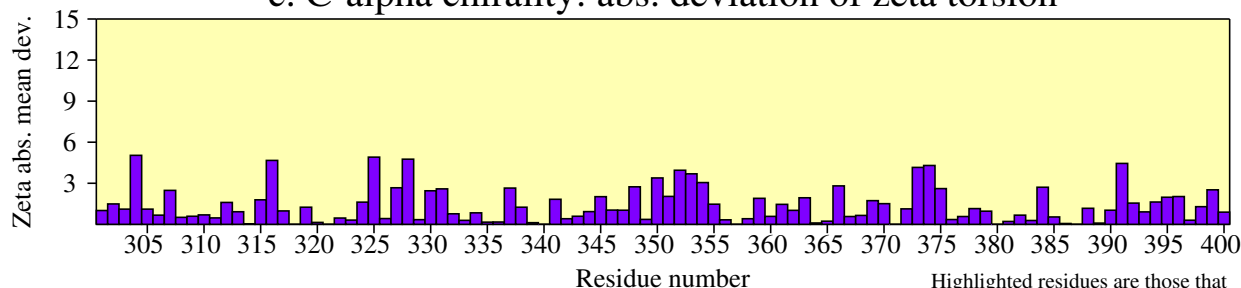
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

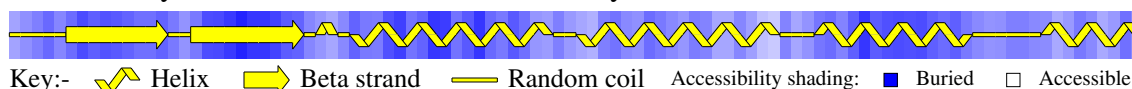


c. C-alpha chirality: abs. deviation of zeta torsion

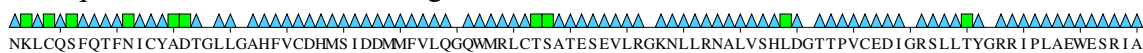


Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

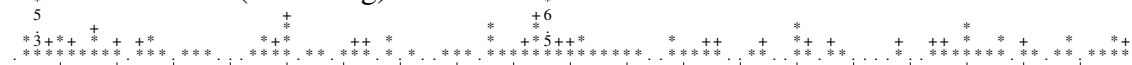
d. Secondary structure & estimated accessibility



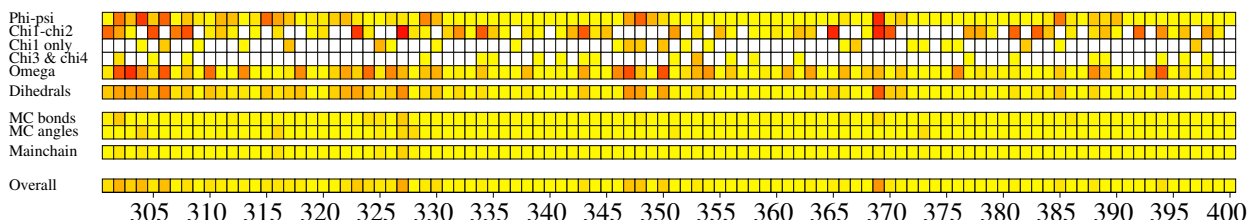
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

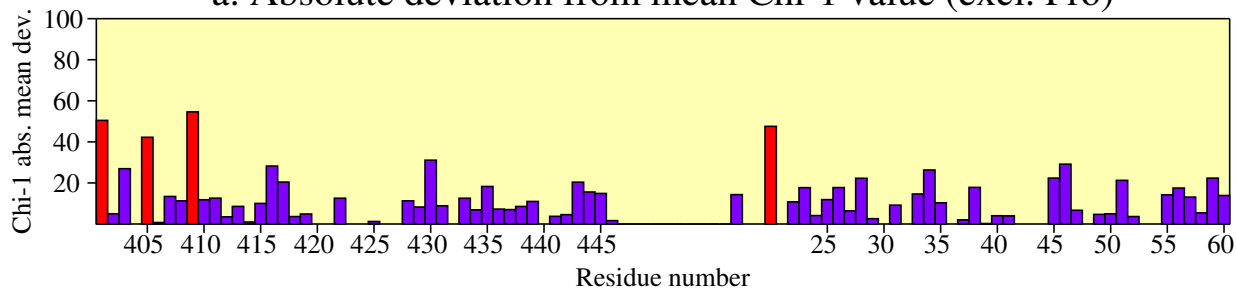


g. G-factors

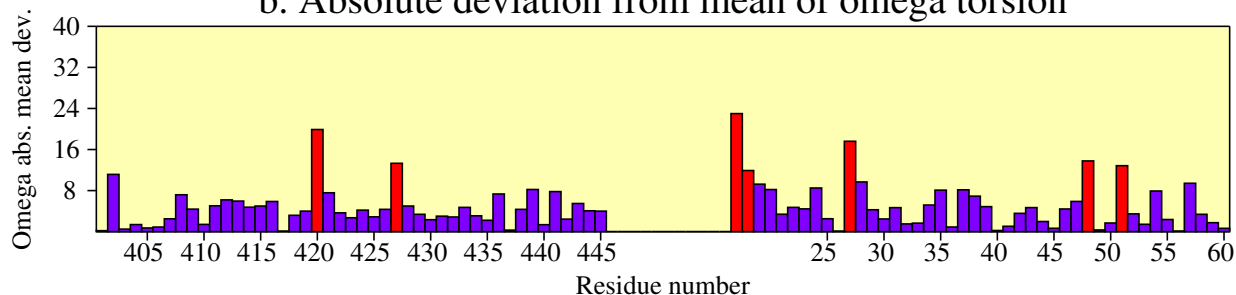


Residue properties pdb1sqp

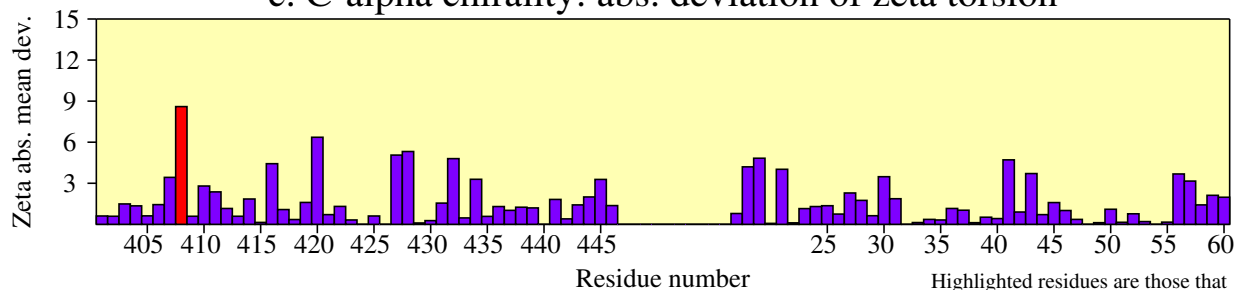
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

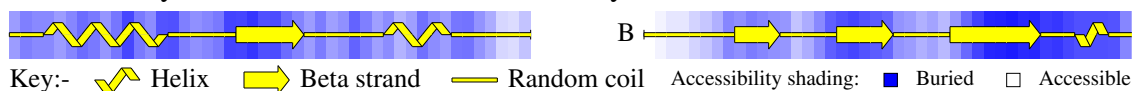


c. C-alpha chirality: abs. deviation of zeta torsion



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

d. Secondary structure & estimated accessibility



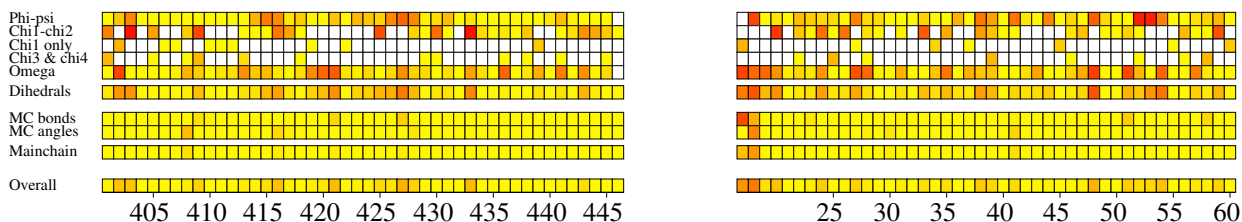
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

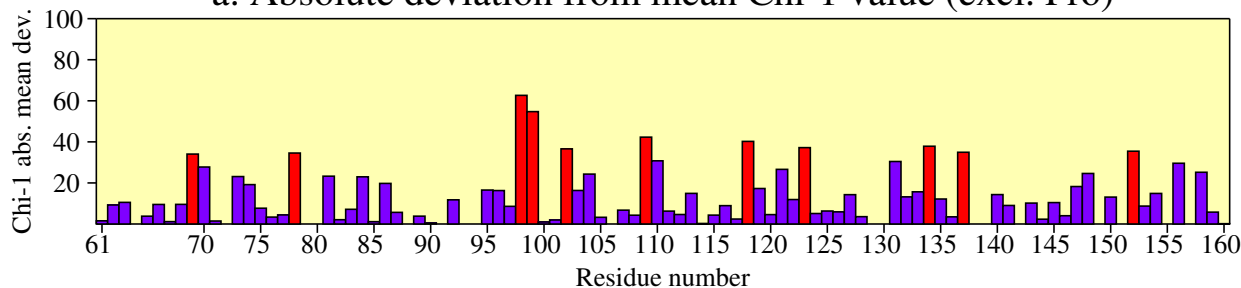


g. G-factors

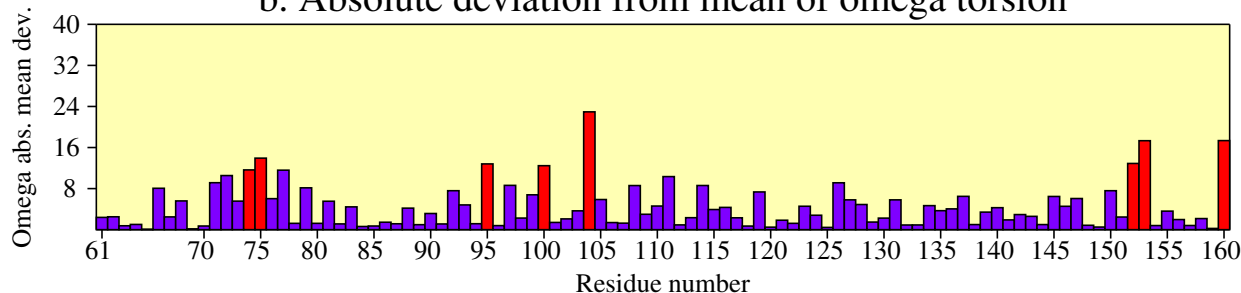


Residue properties pdb1sqp

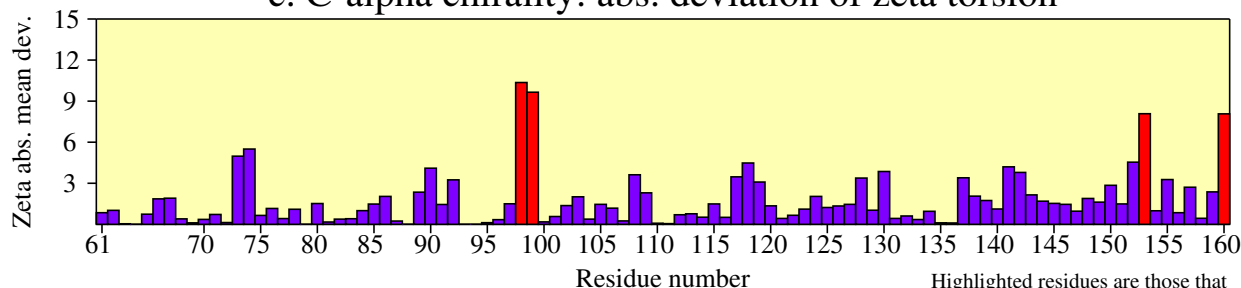
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

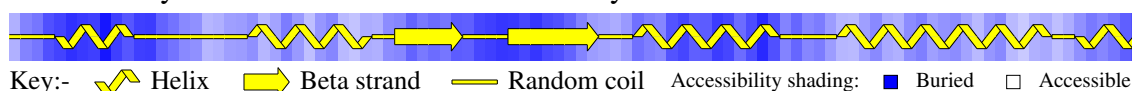


c. C-alpha chirality: abs. deviation of zeta torsion



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

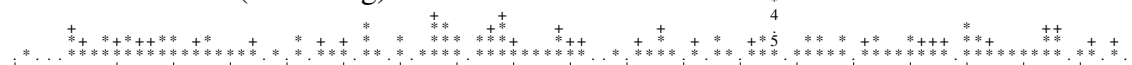
d. Secondary structure & estimated accessibility



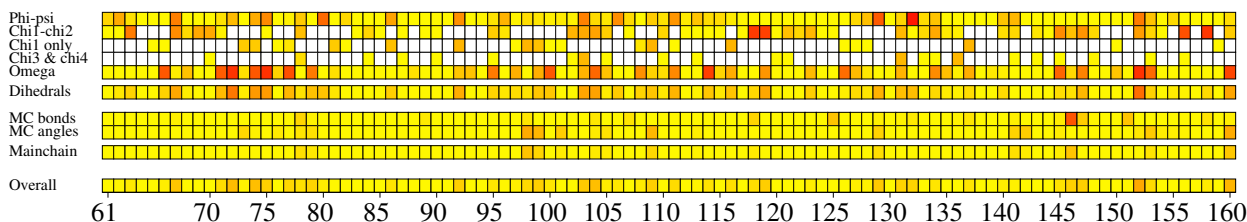
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

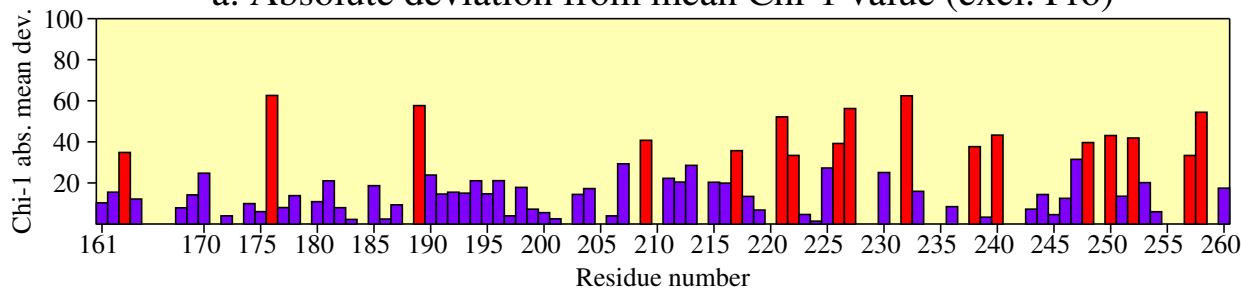


g. G-factors

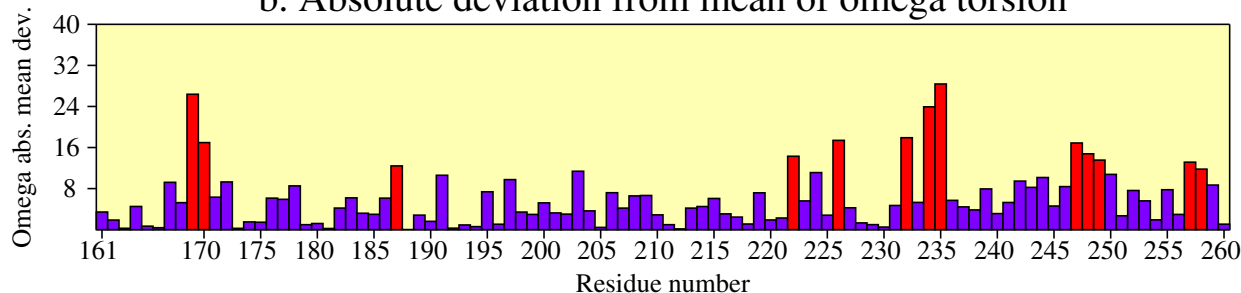


Residue properties pdb1sqp

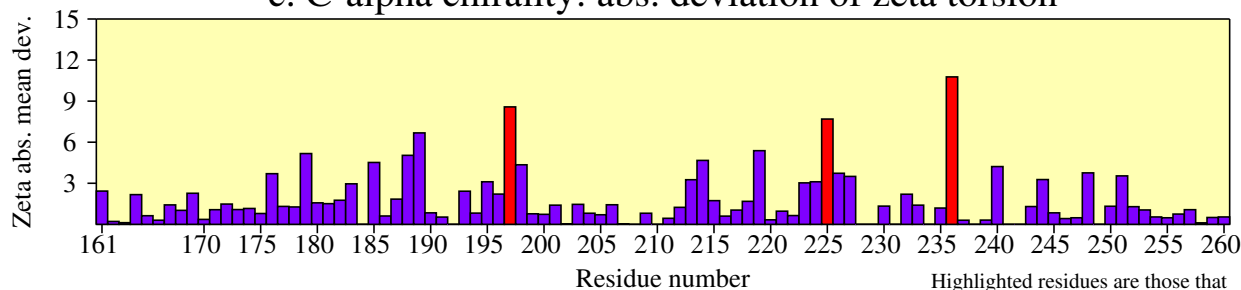
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

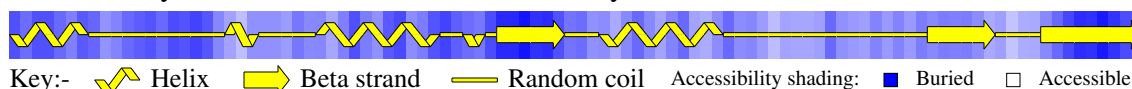


c. C-alpha chirality: abs. deviation of zeta torsion



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

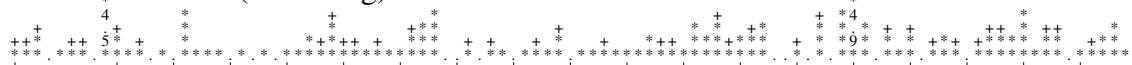
d. Secondary structure & estimated accessibility



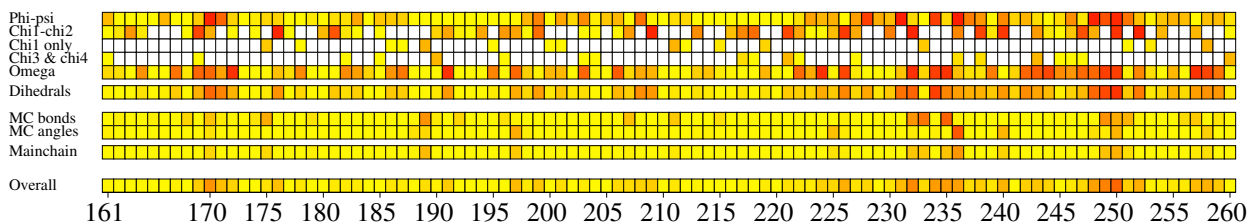
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

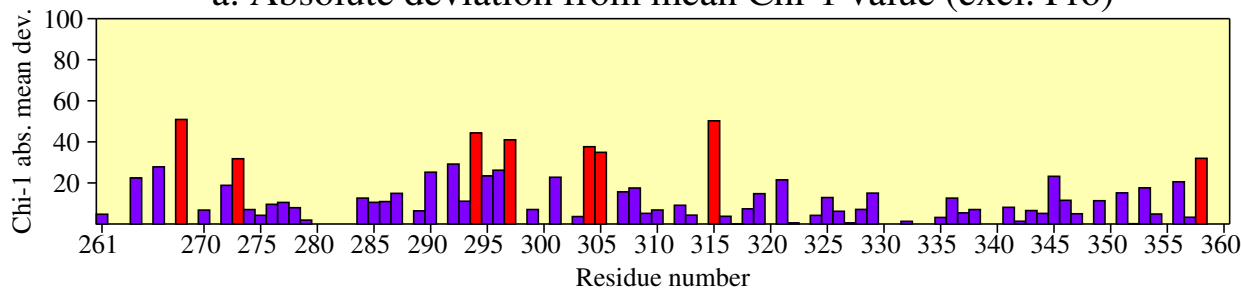


g. G-factors

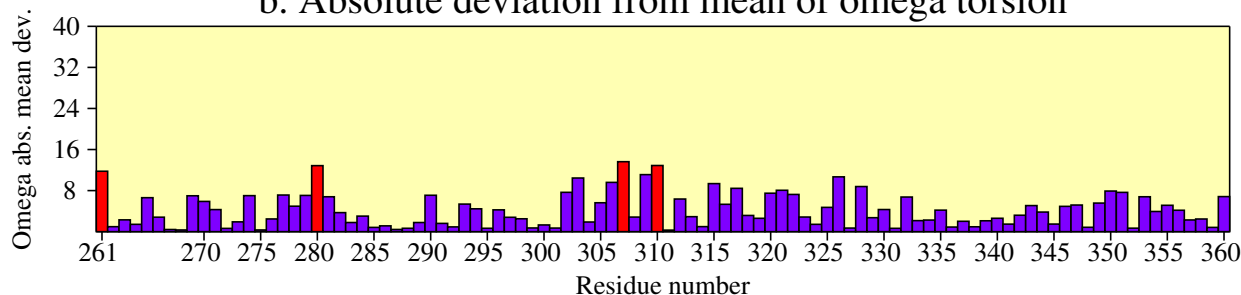


Residue properties pdb1sqp

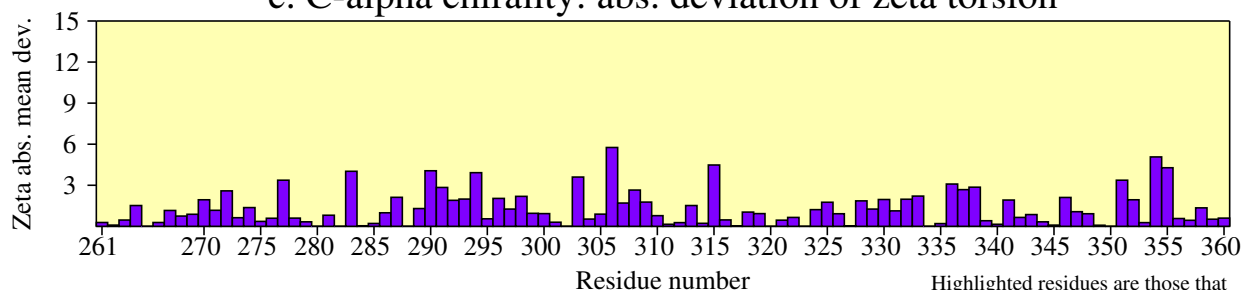
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

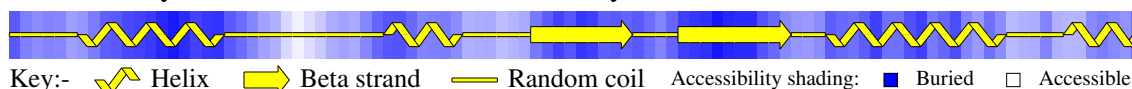


c. C-alpha chirality: abs. deviation of zeta torsion



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

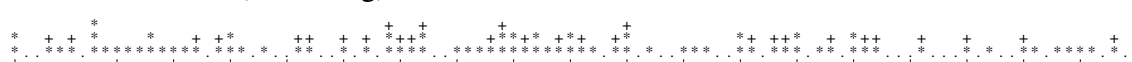
d. Secondary structure & estimated accessibility



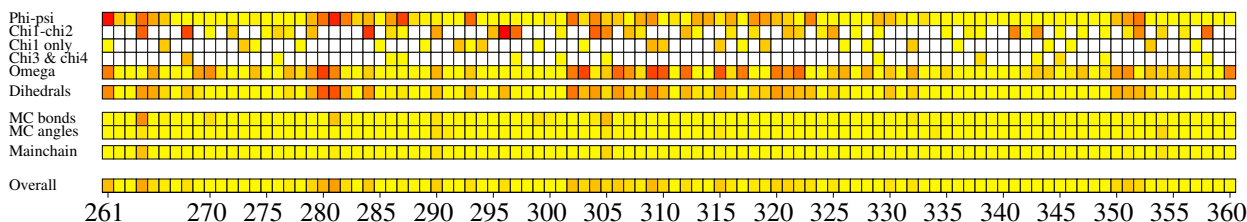
e. Sequence & Ramachandran regions Most favoured Allowed Generous Disallowed



f. Max. deviation (see listing)

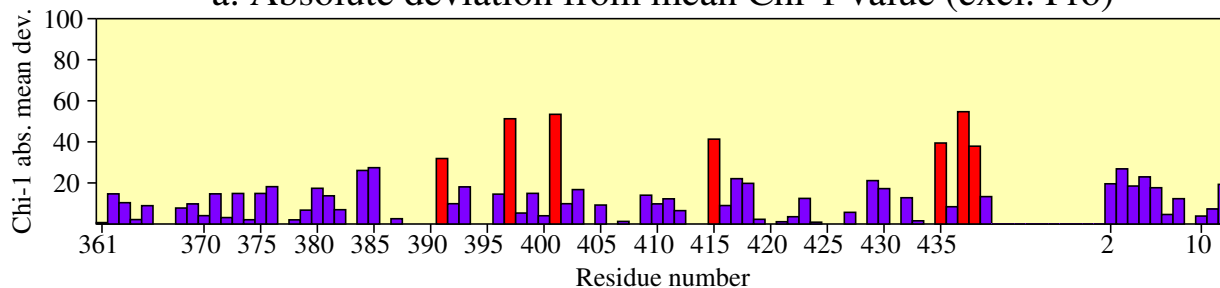


g. G-factors

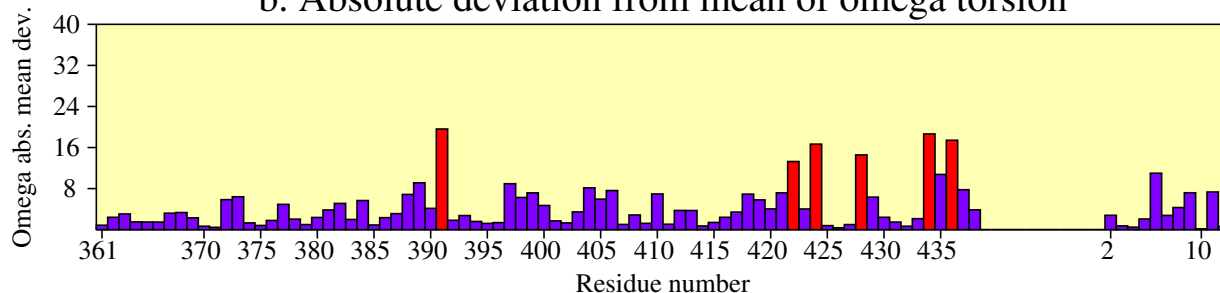


Residue properties pdb1sqp

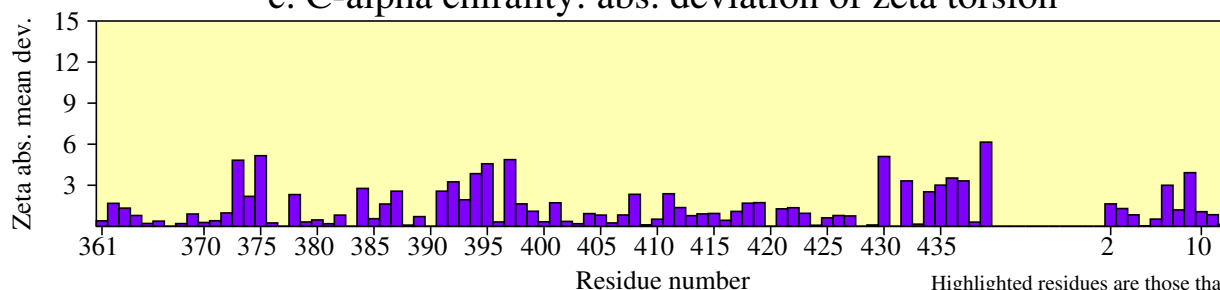
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

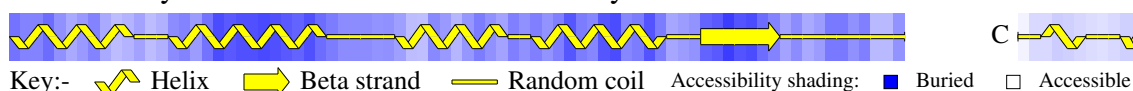


c. C-alpha chirality: abs. deviation of zeta torsion



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

d. Secondary structure & estimated accessibility



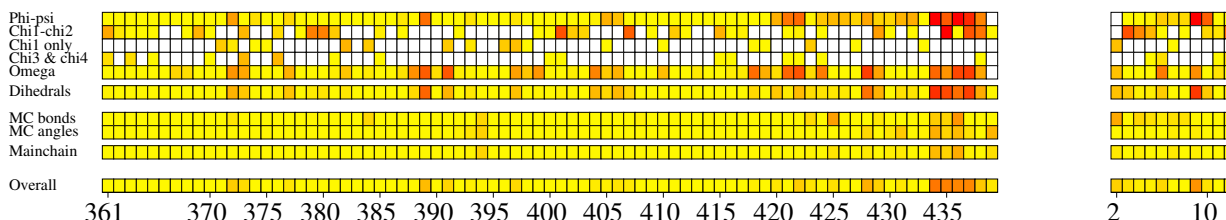
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

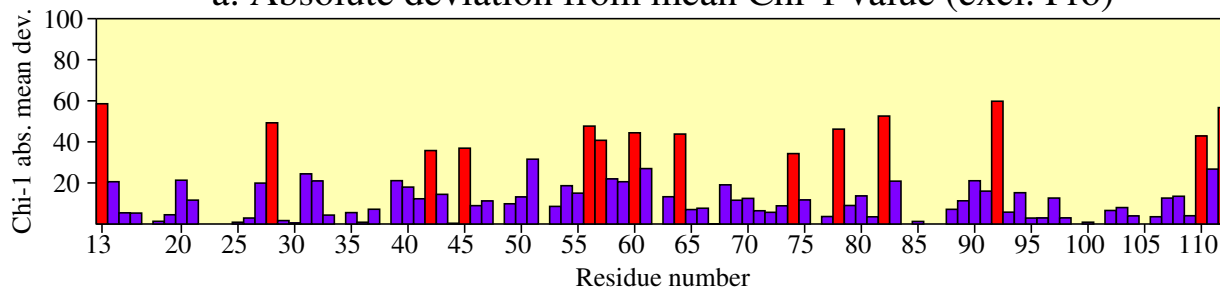


g. G-factors

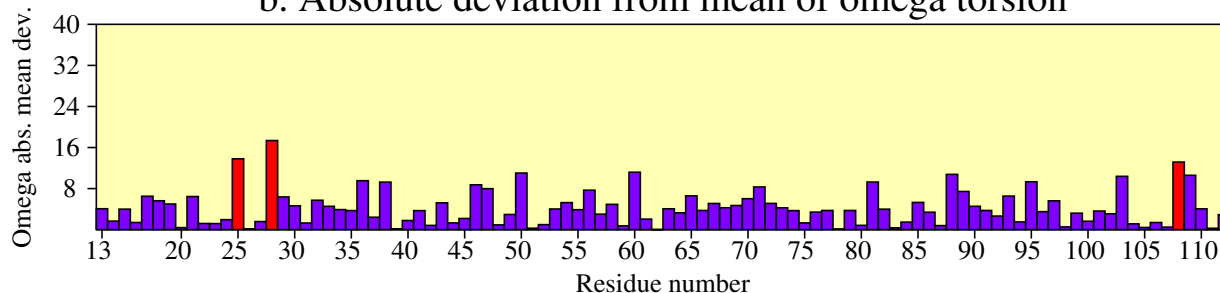


Residue properties pdb1sqp

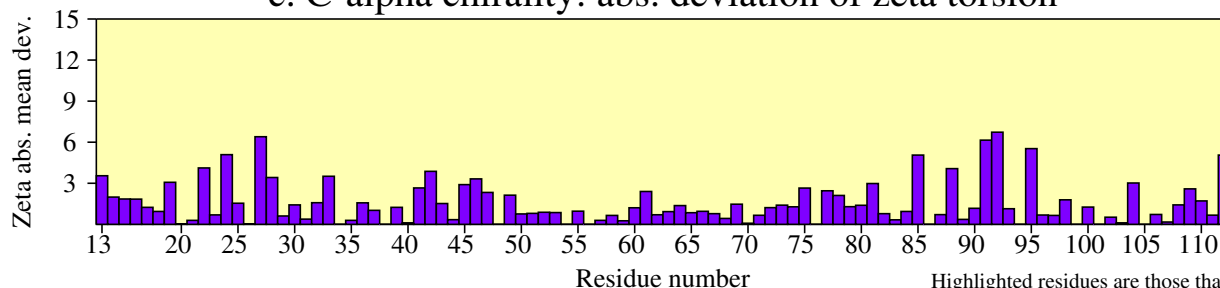
a. Absolute deviation from mean Chi-1 value (excl. Pro)



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

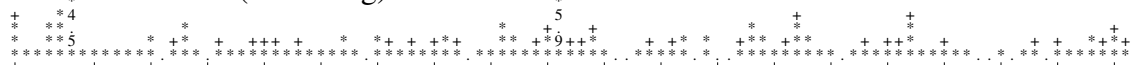
d. Secondary structure & estimated accessibility



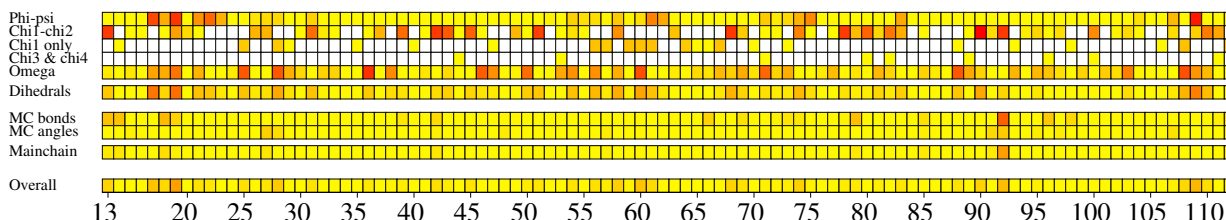
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

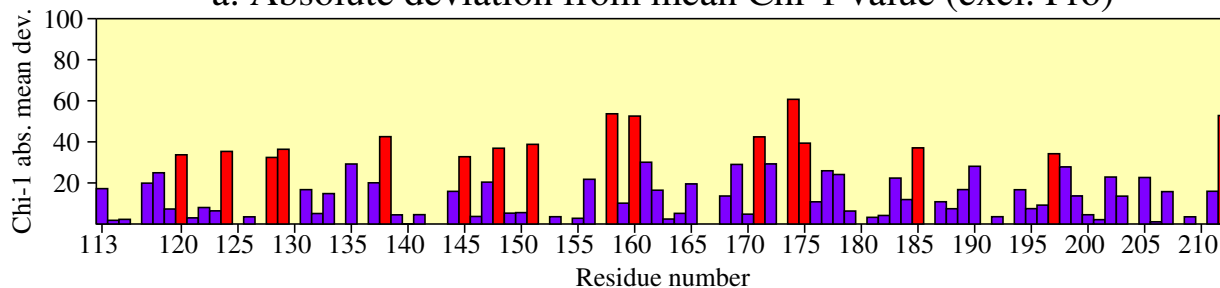


g. G-factors

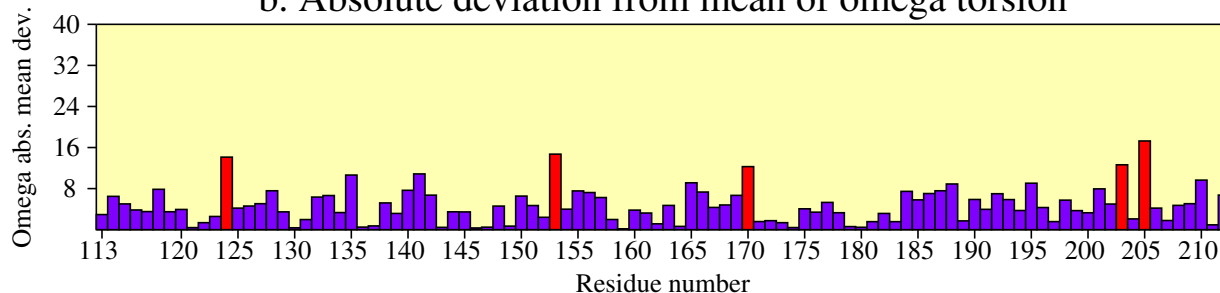


Residue properties pdb1sqp

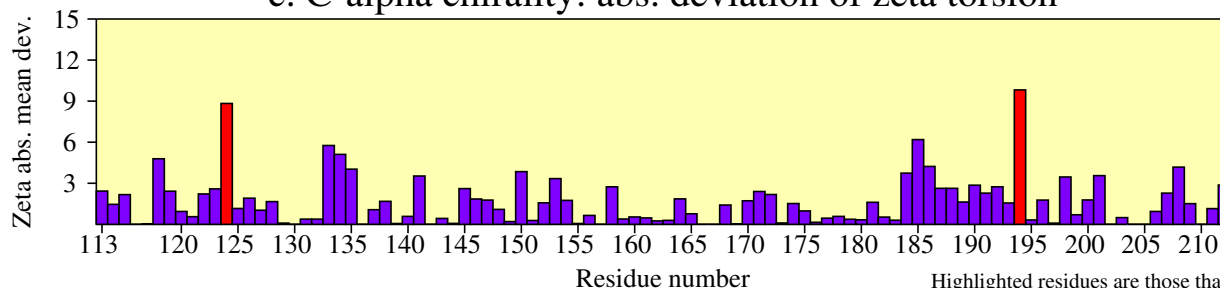
a. Absolute deviation from mean Chi-1 value (excl. Pro)



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



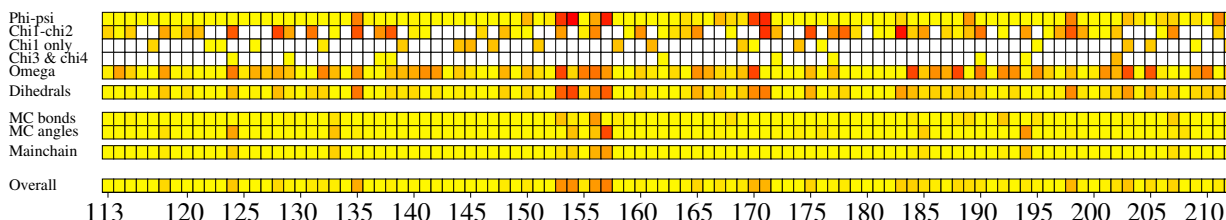
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

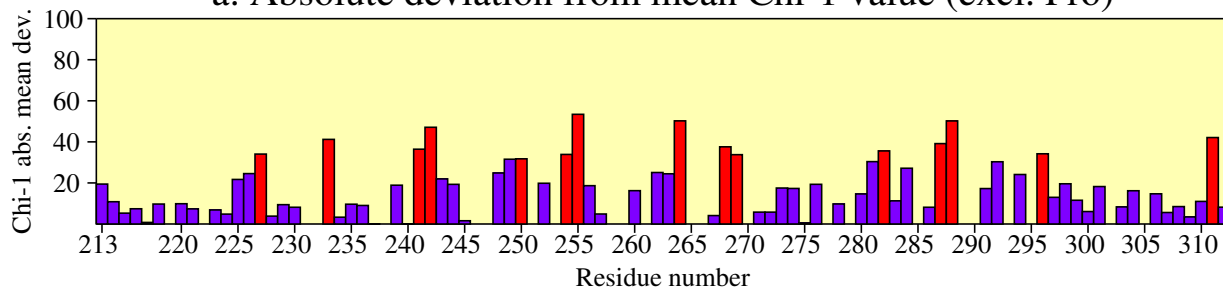


g. G-factors

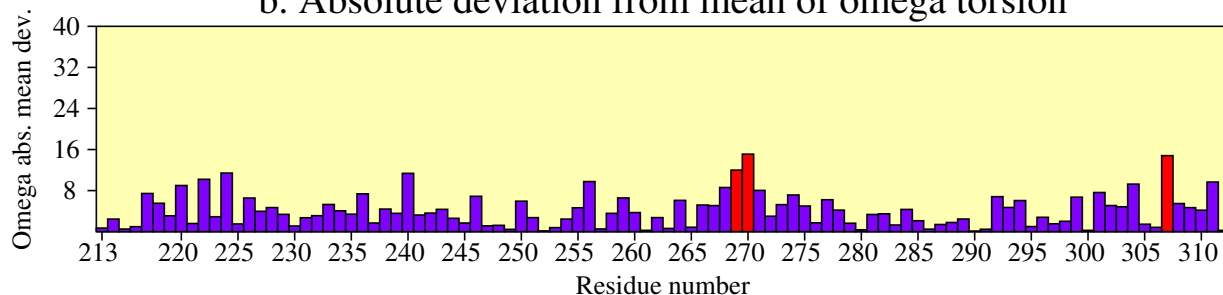


Residue properties pdb1sqp

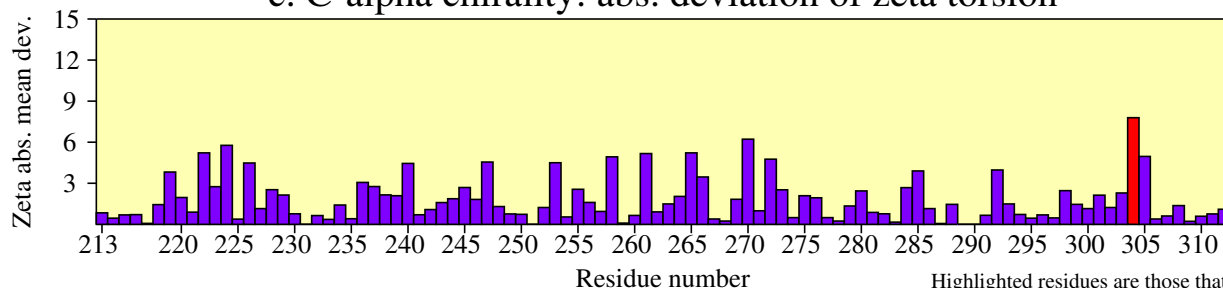
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

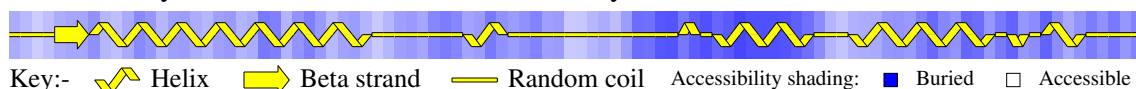


c. C-alpha chirality: abs. deviation of zeta torsion



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

d. Secondary structure & estimated accessibility



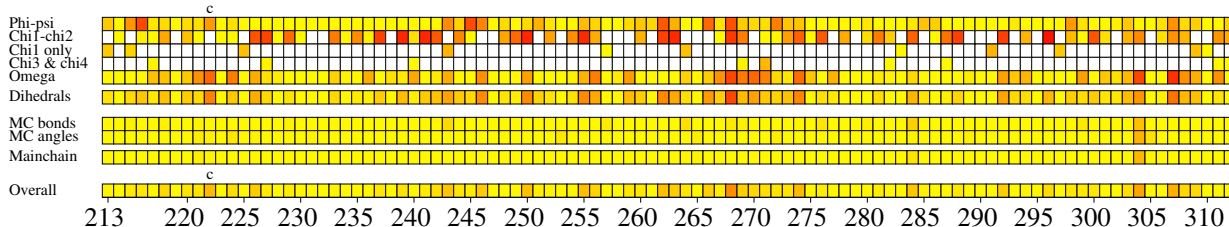
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)



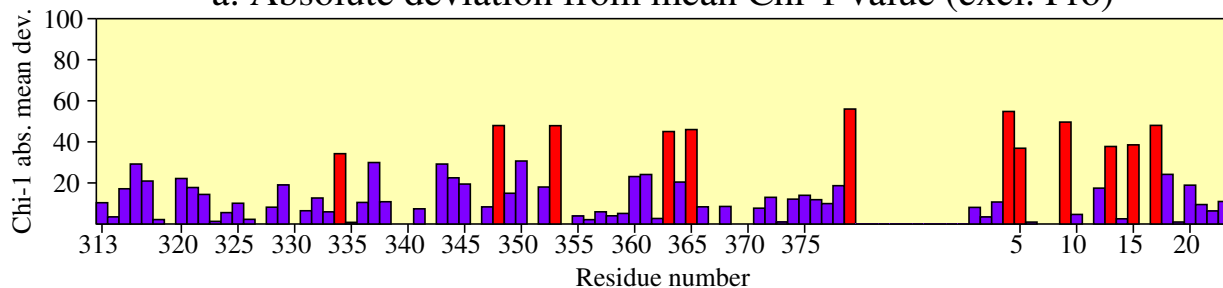
g. G-factors



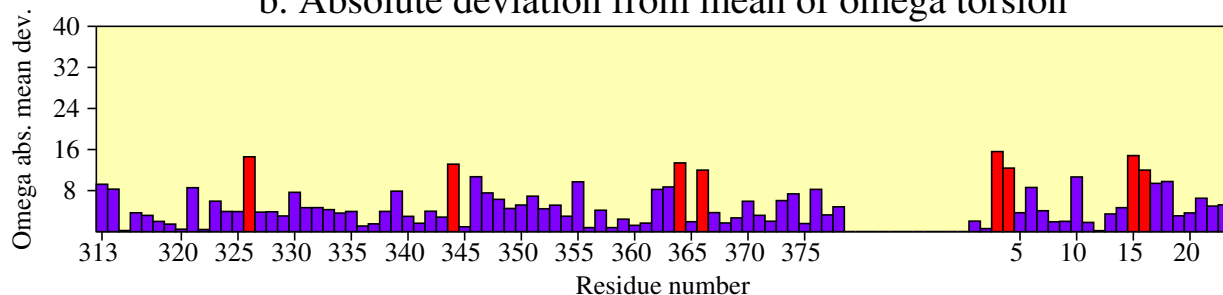
c = cis-peptide

Residue properties pdb1sqp

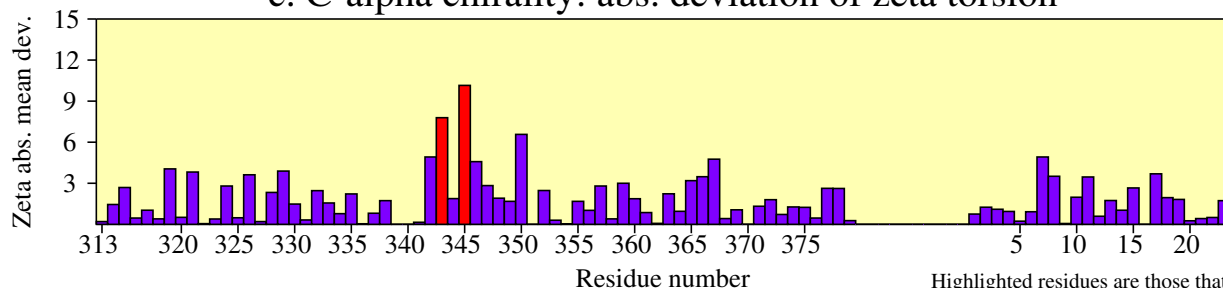
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

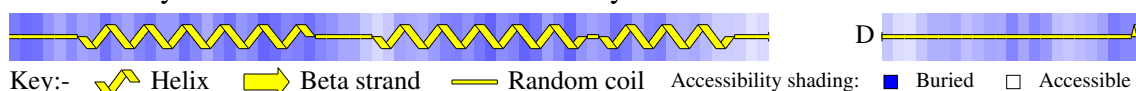


c. C-alpha chirality: abs. deviation of zeta torsion



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

d. Secondary structure & estimated accessibility



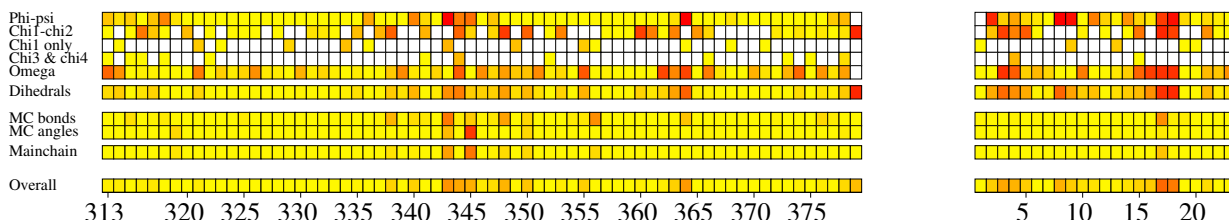
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

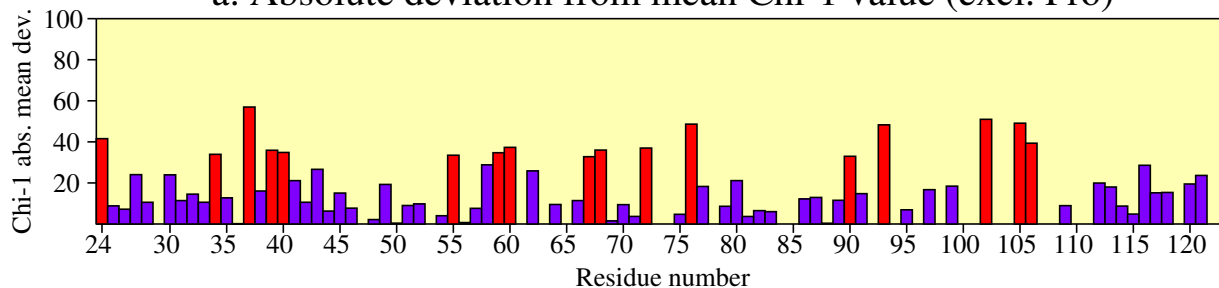


g. G-factors

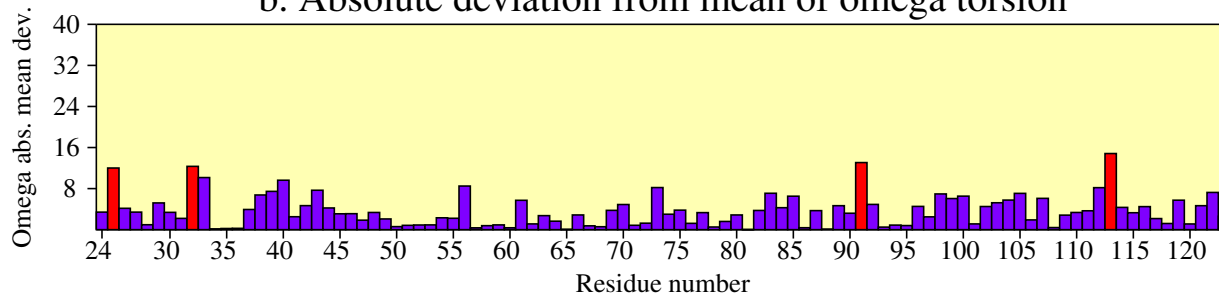


Residue properties pdb1sqp

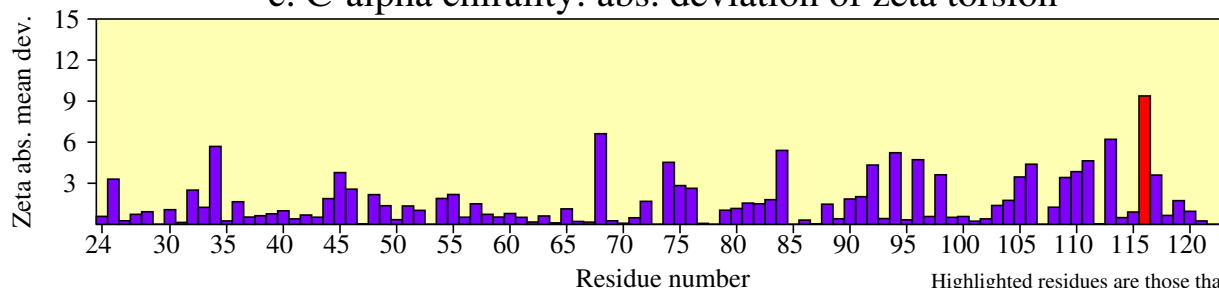
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

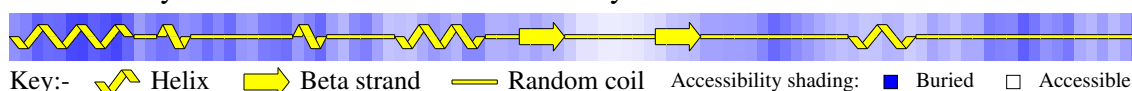


c. C-alpha chirality: abs. deviation of zeta torsion



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

d. Secondary structure & estimated accessibility



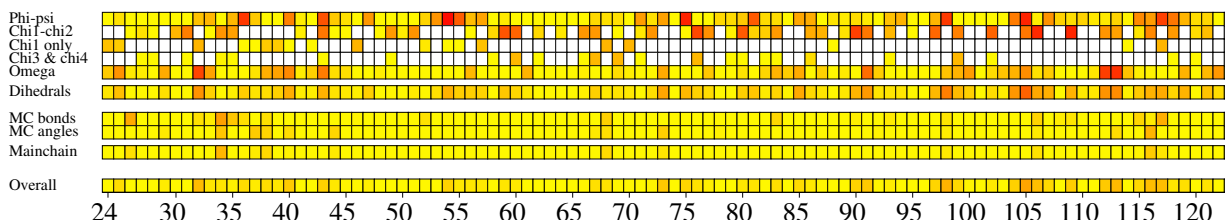
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

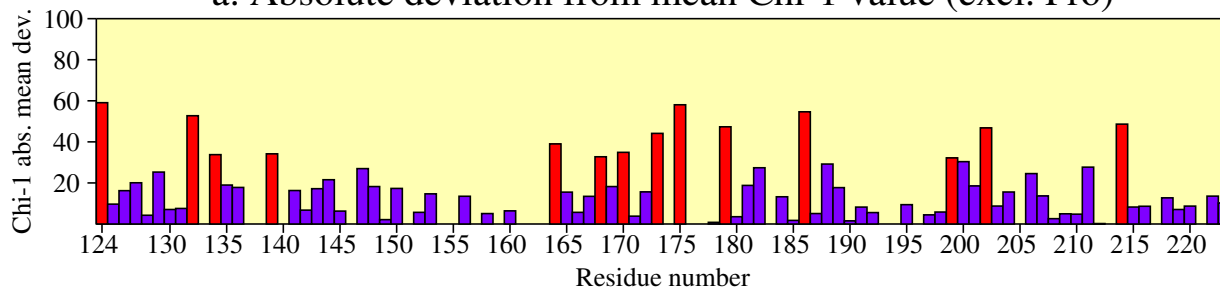


g. G-factors

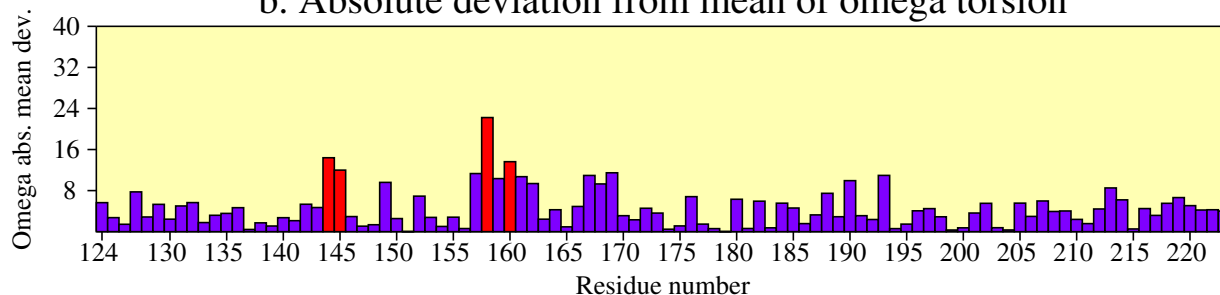


Residue properties pdb1sqp

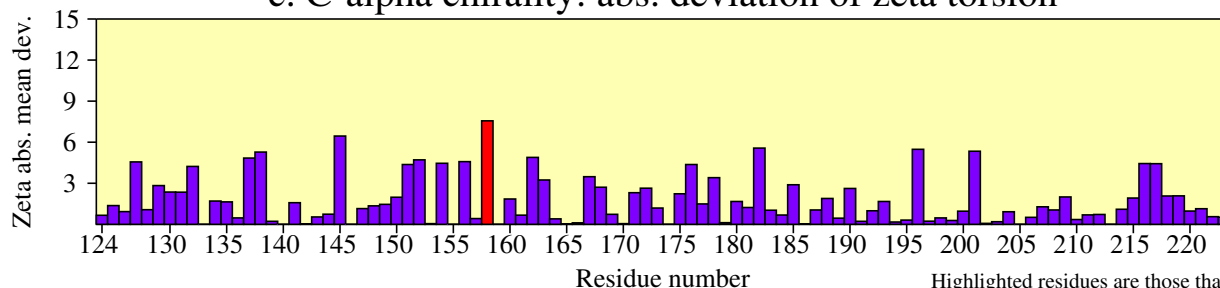
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

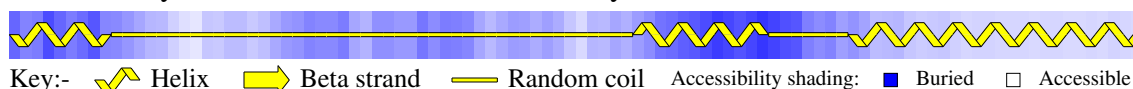


c. C-alpha chirality: abs. deviation of zeta torsion



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

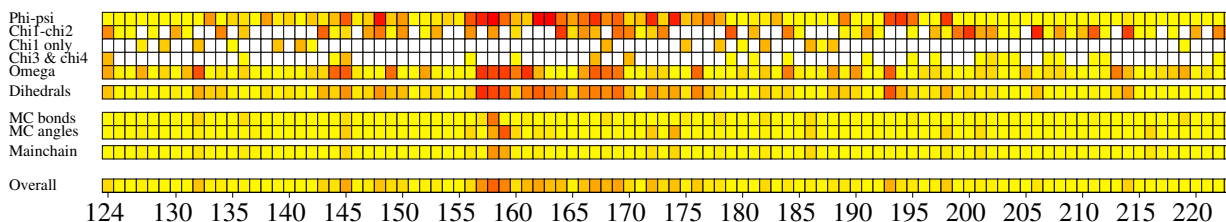
e. Sequence & Ramachandran regions Most favoured Allowed Generous Disallowed



f. Max. deviation (see listing)

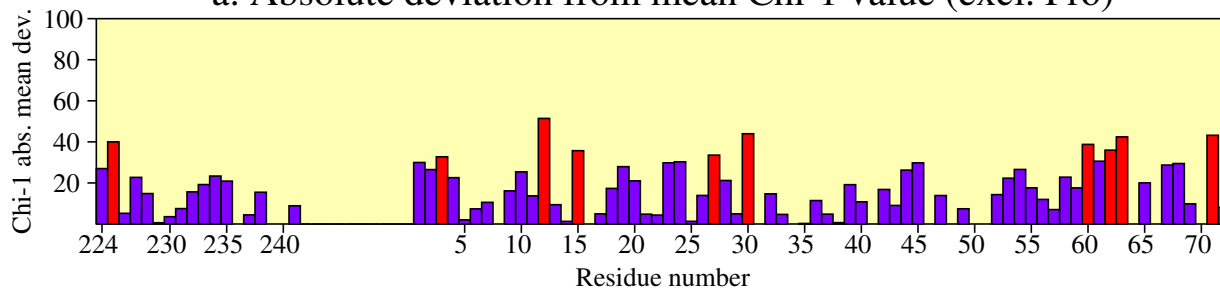


g. G-factors

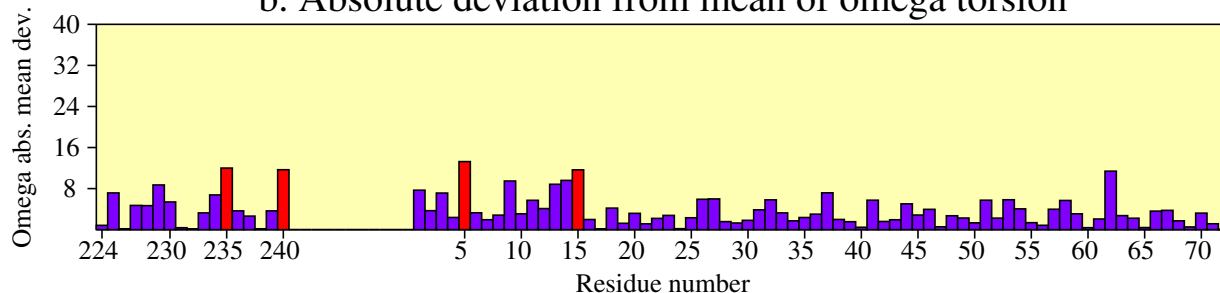


Residue properties pdb1sqp

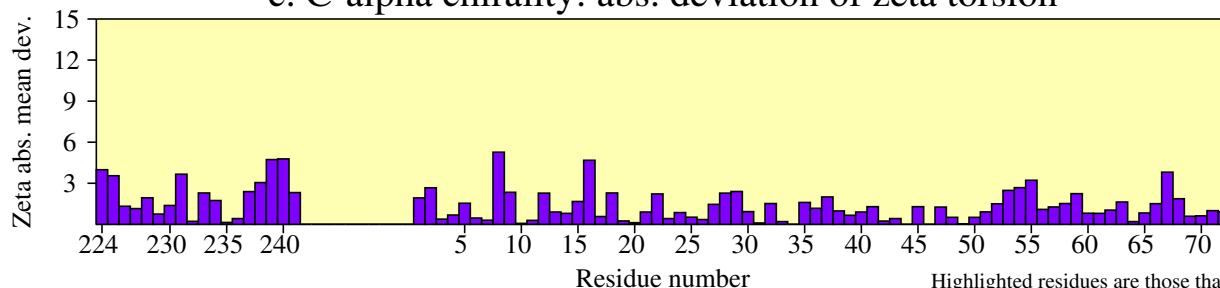
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

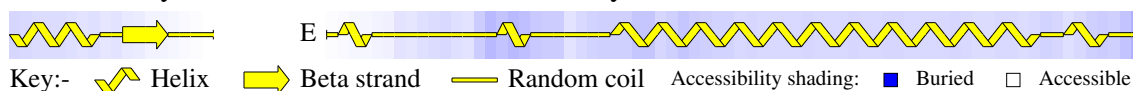


c. C-alpha chirality: abs. deviation of zeta torsion



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

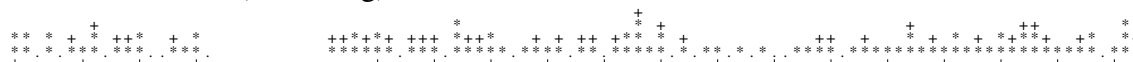
d. Secondary structure & estimated accessibility



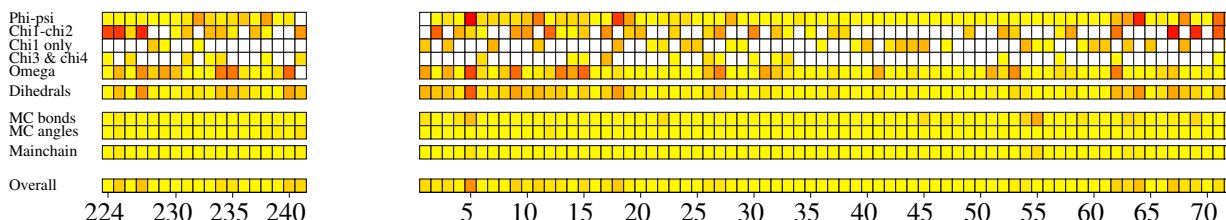
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

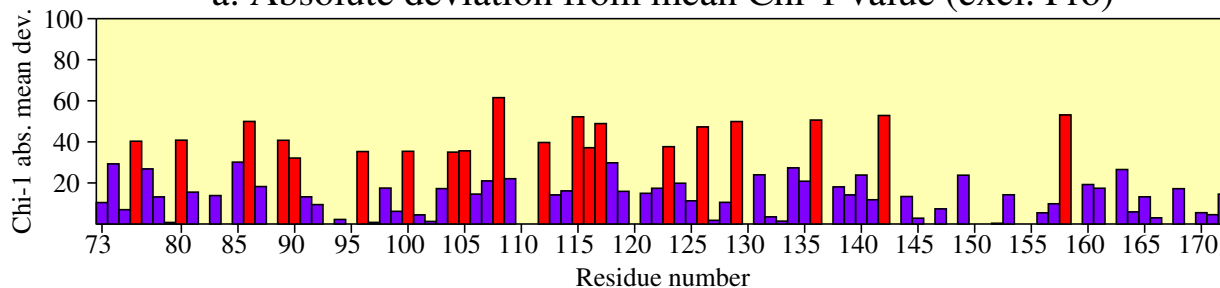


g. G-factors

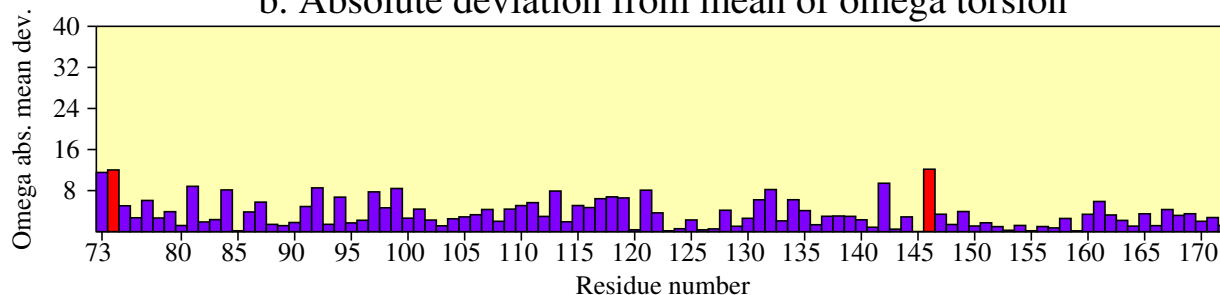


Residue properties pdb1sqp

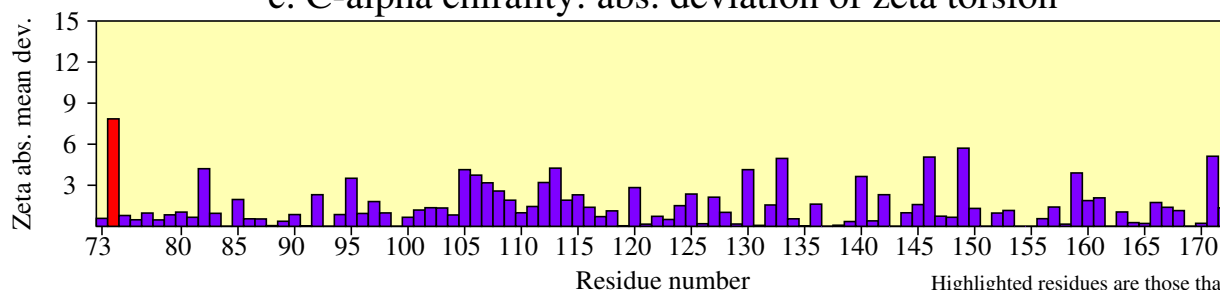
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

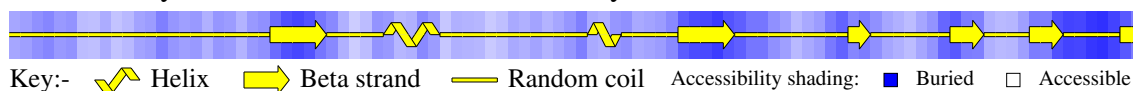


c. C-alpha chirality: abs. deviation of zeta torsion

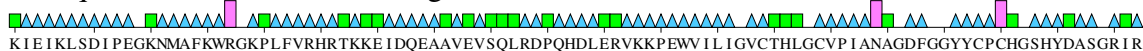


Highlighted residues are those that deviate by more than 2.0 st. devs. from ideal

d. Secondary structure & estimated accessibility



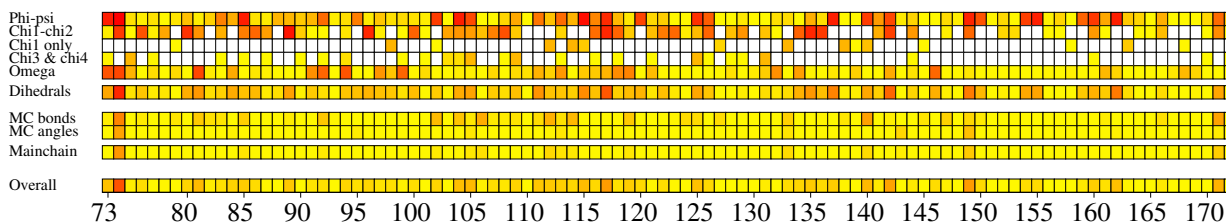
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

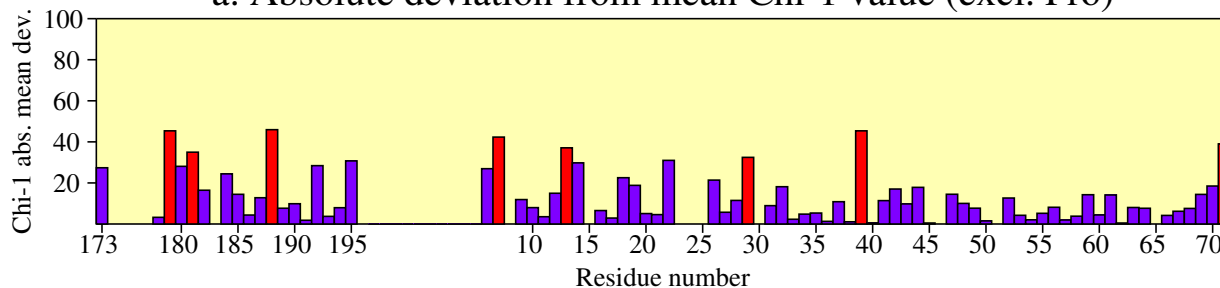


g. G-factors

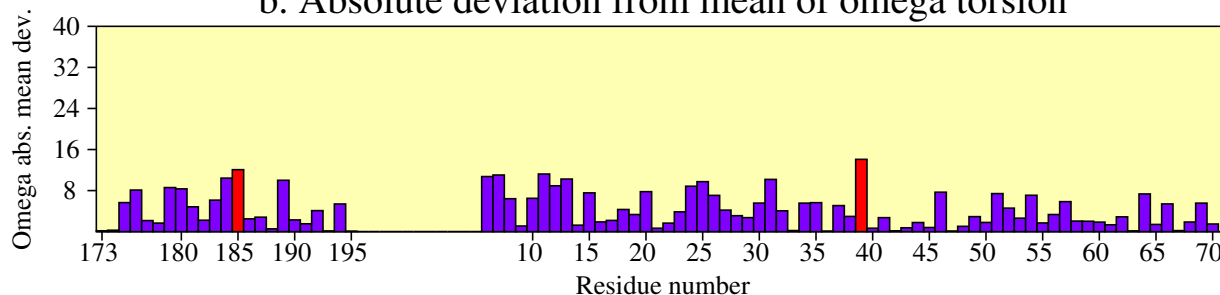


Residue properties pdb1sqp

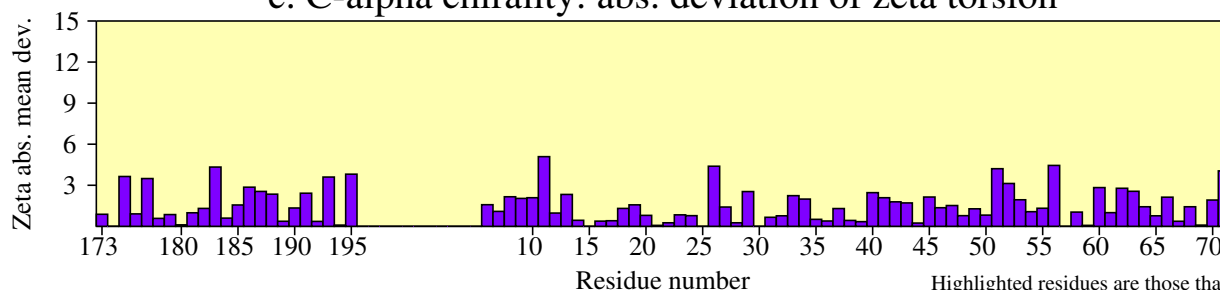
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

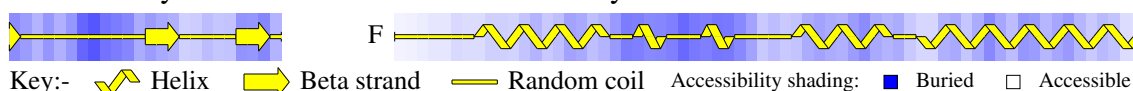


c. C-alpha chirality: abs. deviation of zeta torsion



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

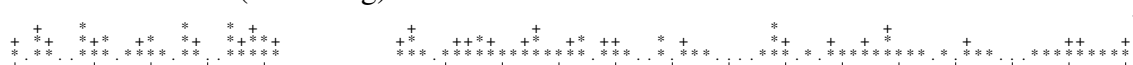
d. Secondary structure & estimated accessibility



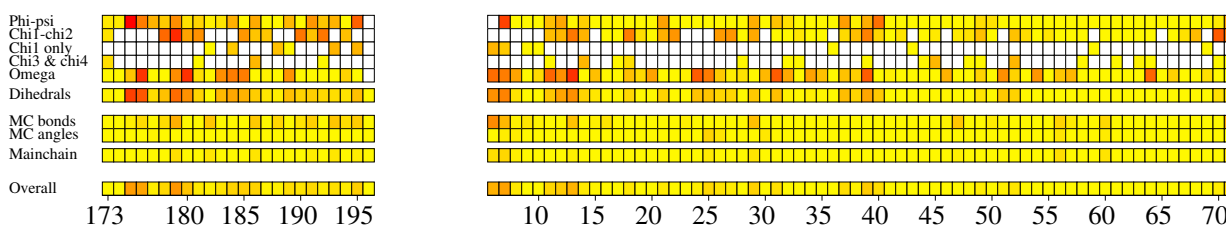
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

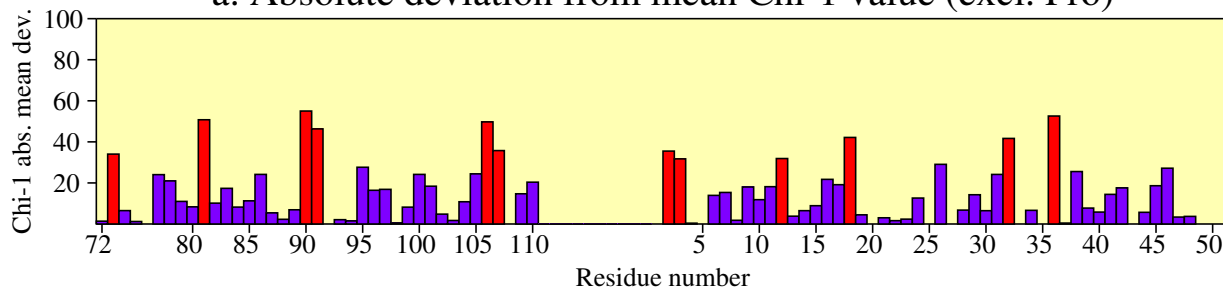


g. G-factors

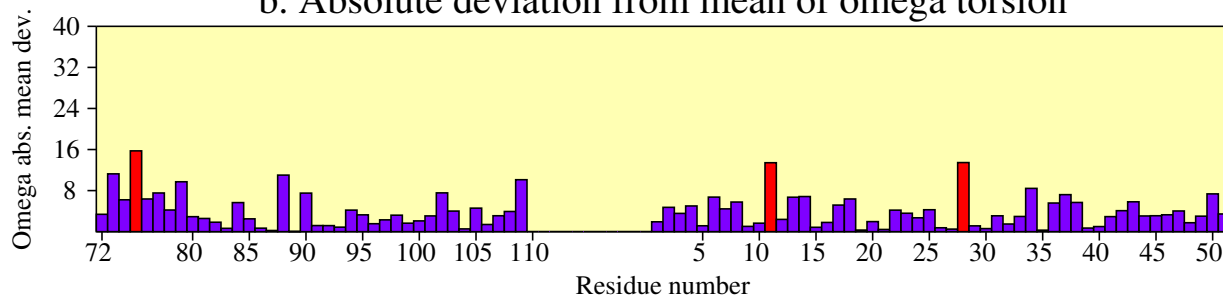


Residue properties pdb1sqp

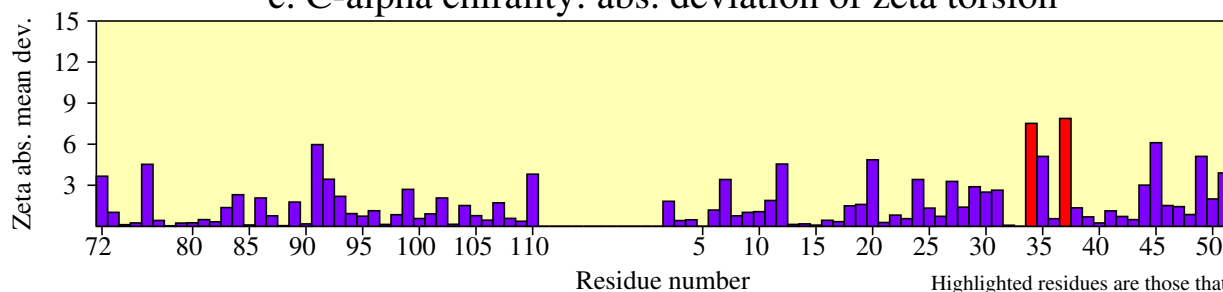
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

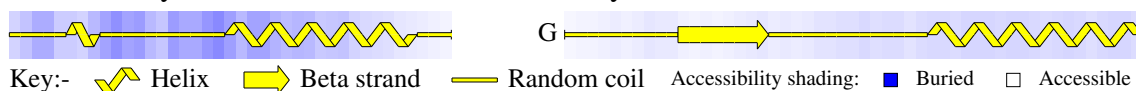


c. C-alpha chirality: abs. deviation of zeta torsion



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

d. Secondary structure & estimated accessibility



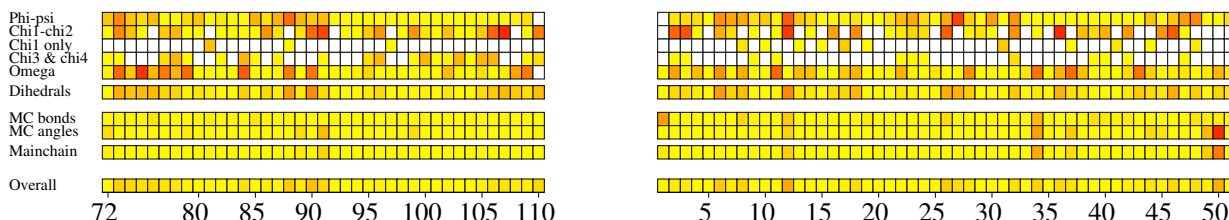
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

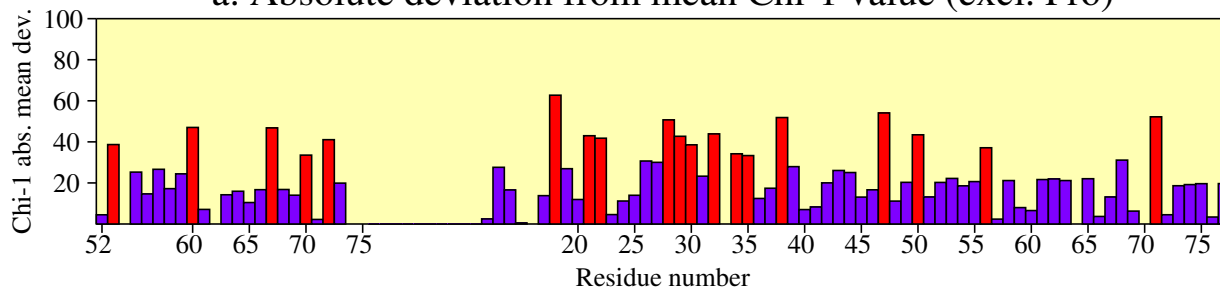


g. G-factors

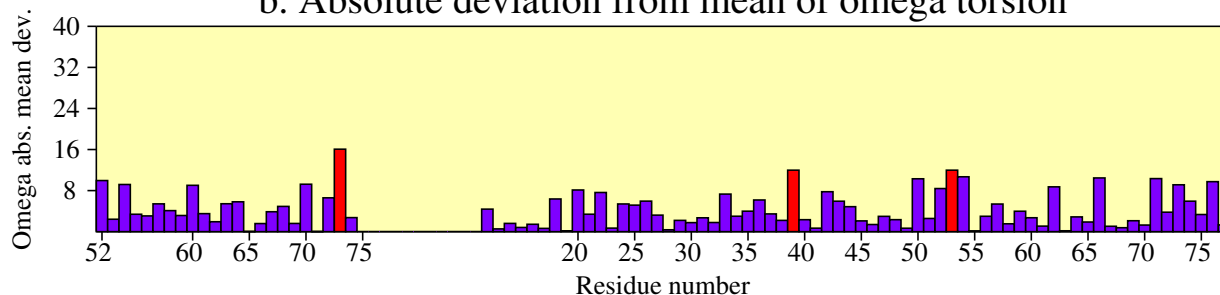


Residue properties pdb1sqp

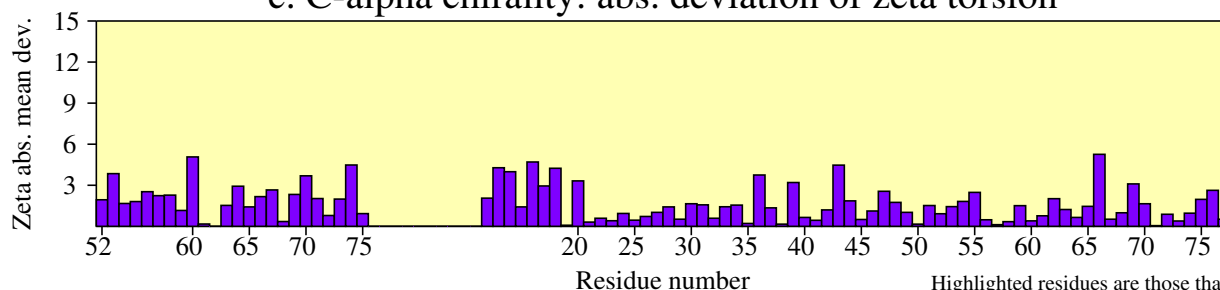
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

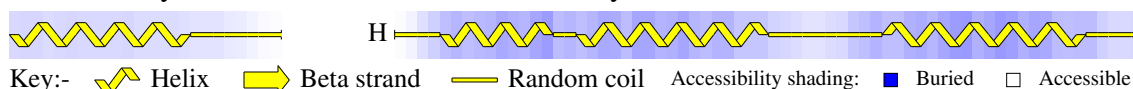


c. C-alpha chirality: abs. deviation of zeta torsion



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

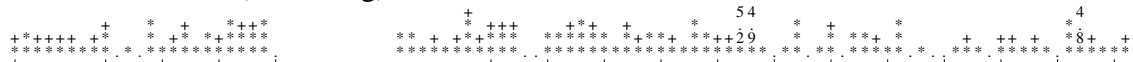
d. Secondary structure & estimated accessibility



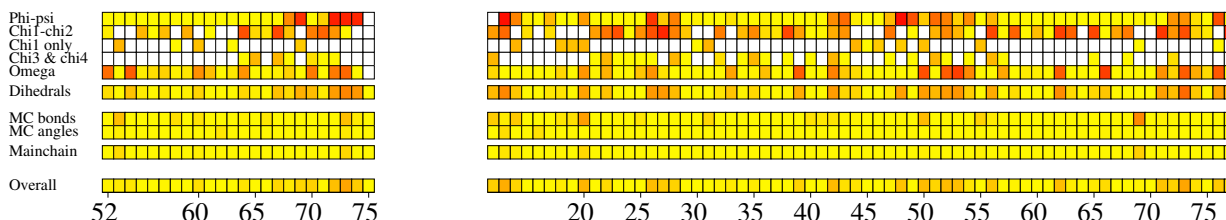
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

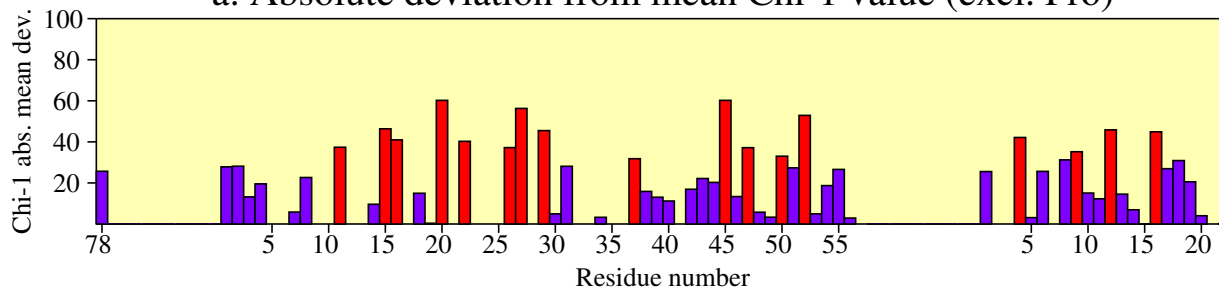


g. G-factors

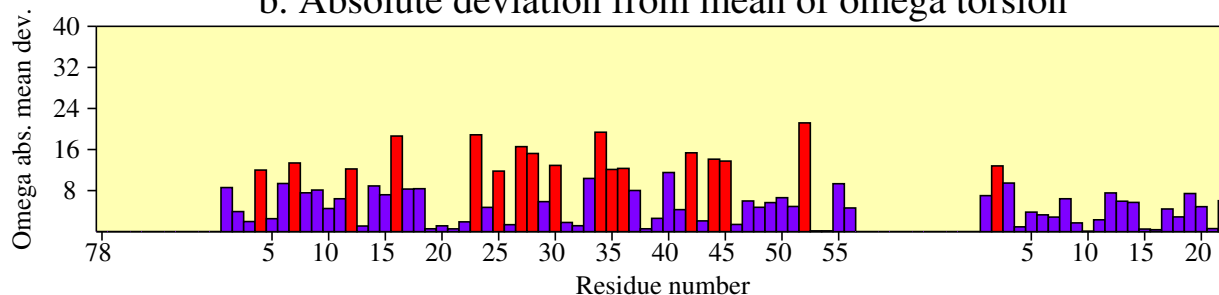


Residue properties pdb1sqp

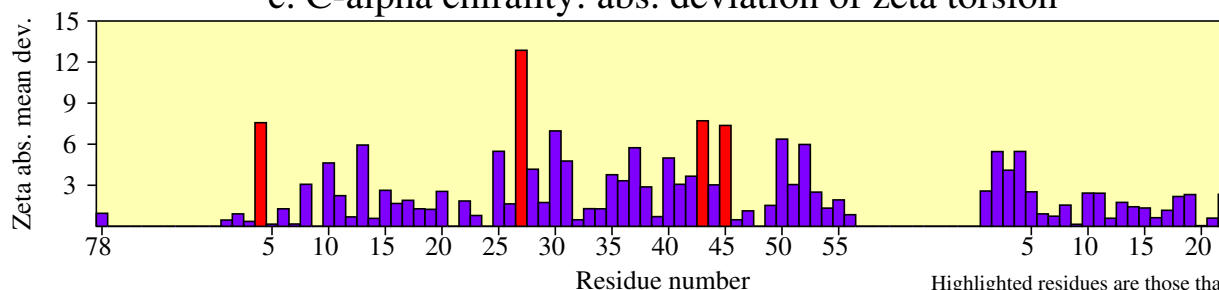
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

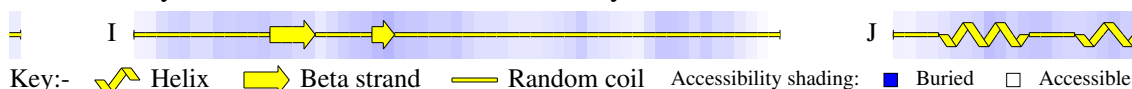


c. C-alpha chirality: abs. deviation of zeta torsion



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

d. Secondary structure & estimated accessibility



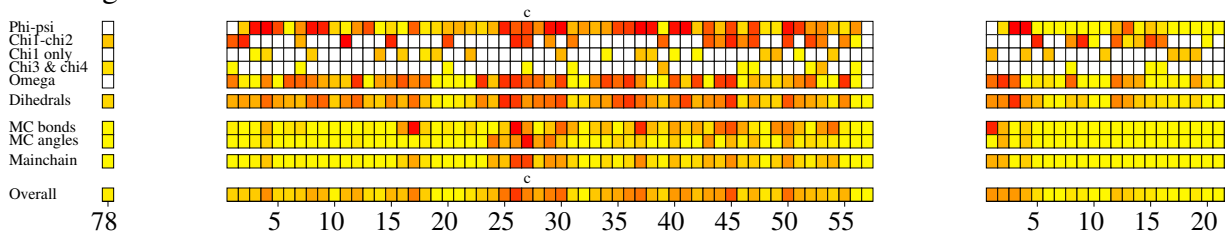
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)



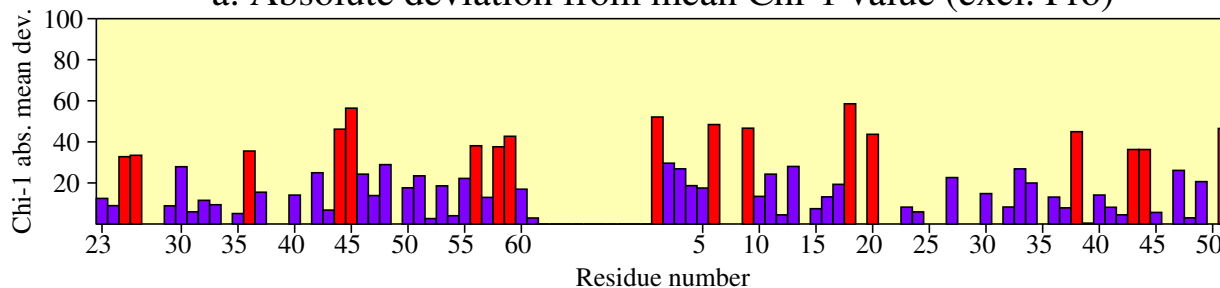
g. G-factors



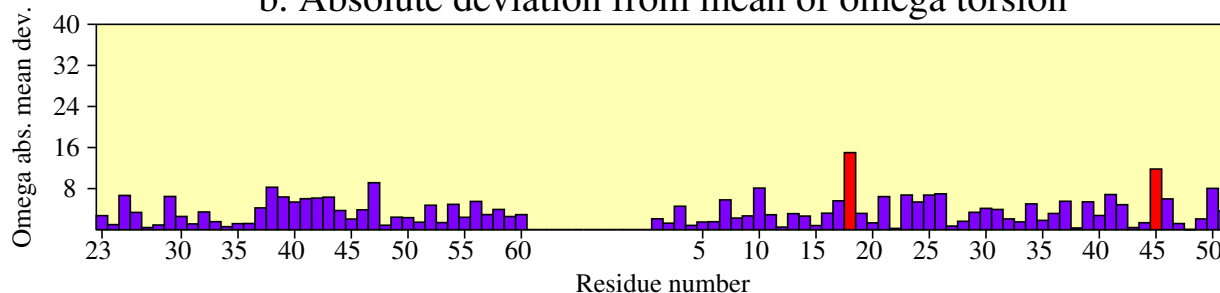
c = cis-peptide

Residue properties pdb1sqp

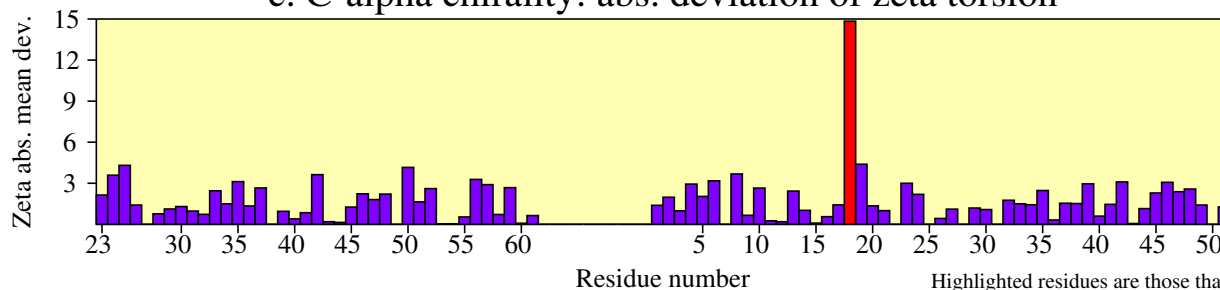
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

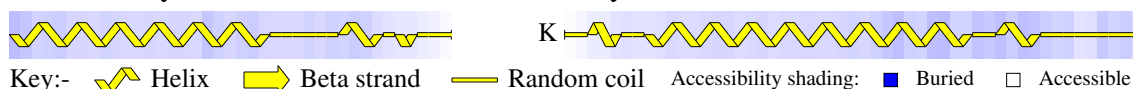


c. C-alpha chirality: abs. deviation of zeta torsion



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

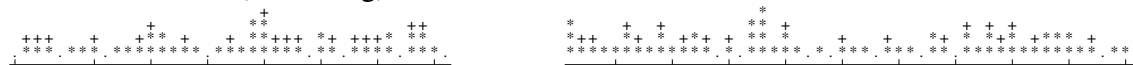
d. Secondary structure & estimated accessibility



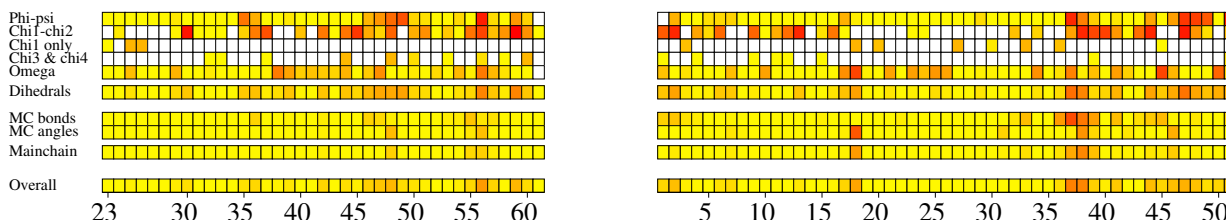
e. Sequence & Ramachandran regions



f. Max. deviation (see listing)

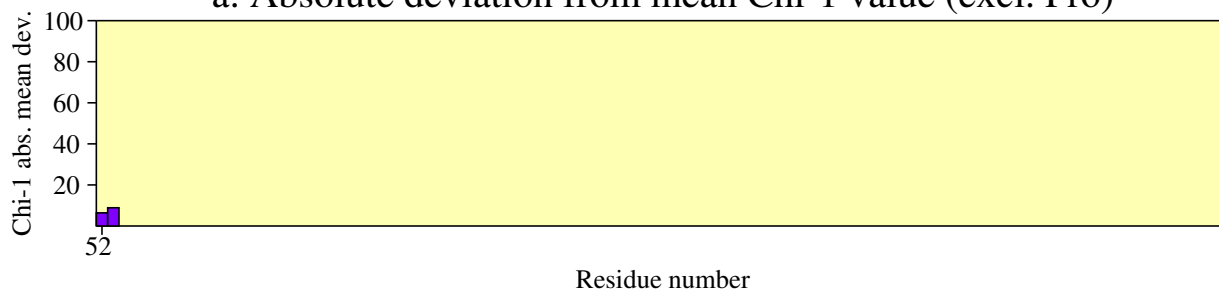


g. G-factors

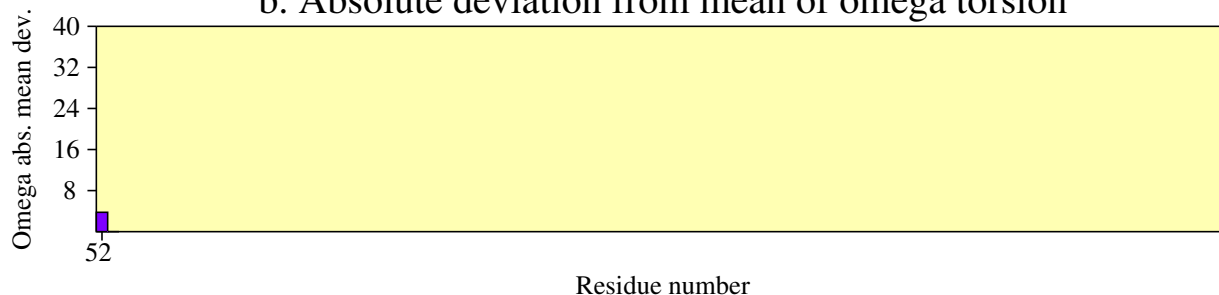


Residue properties pdb1sqp

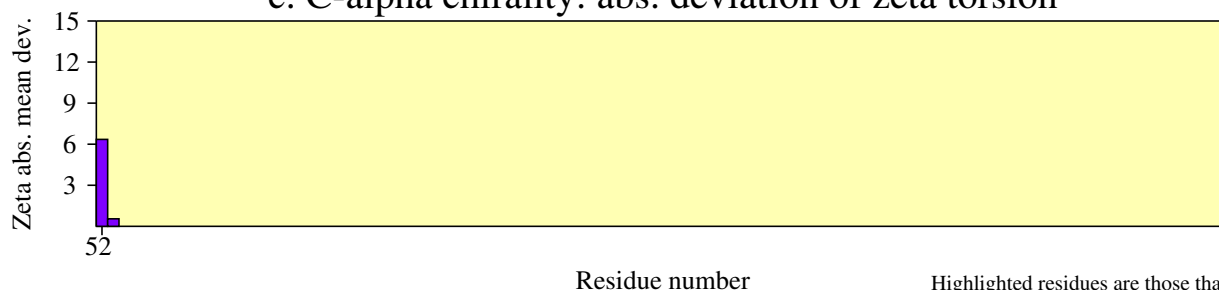
a. Absolute deviation from mean Chi-1 value (excl. Pro)



b. Absolute deviation from mean of omega torsion

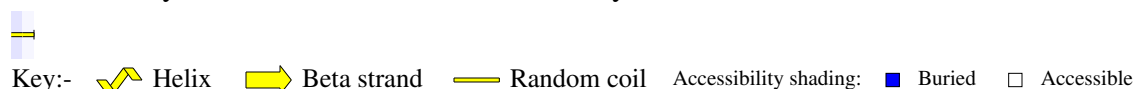


c. C-alpha chirality: abs. deviation of zeta torsion



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

d. Secondary structure & estimated accessibility



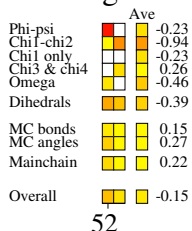
e. Sequence & Ramachandran regions Most favoured Allowed Generous Disallowed



f. Max. deviation (see listing)

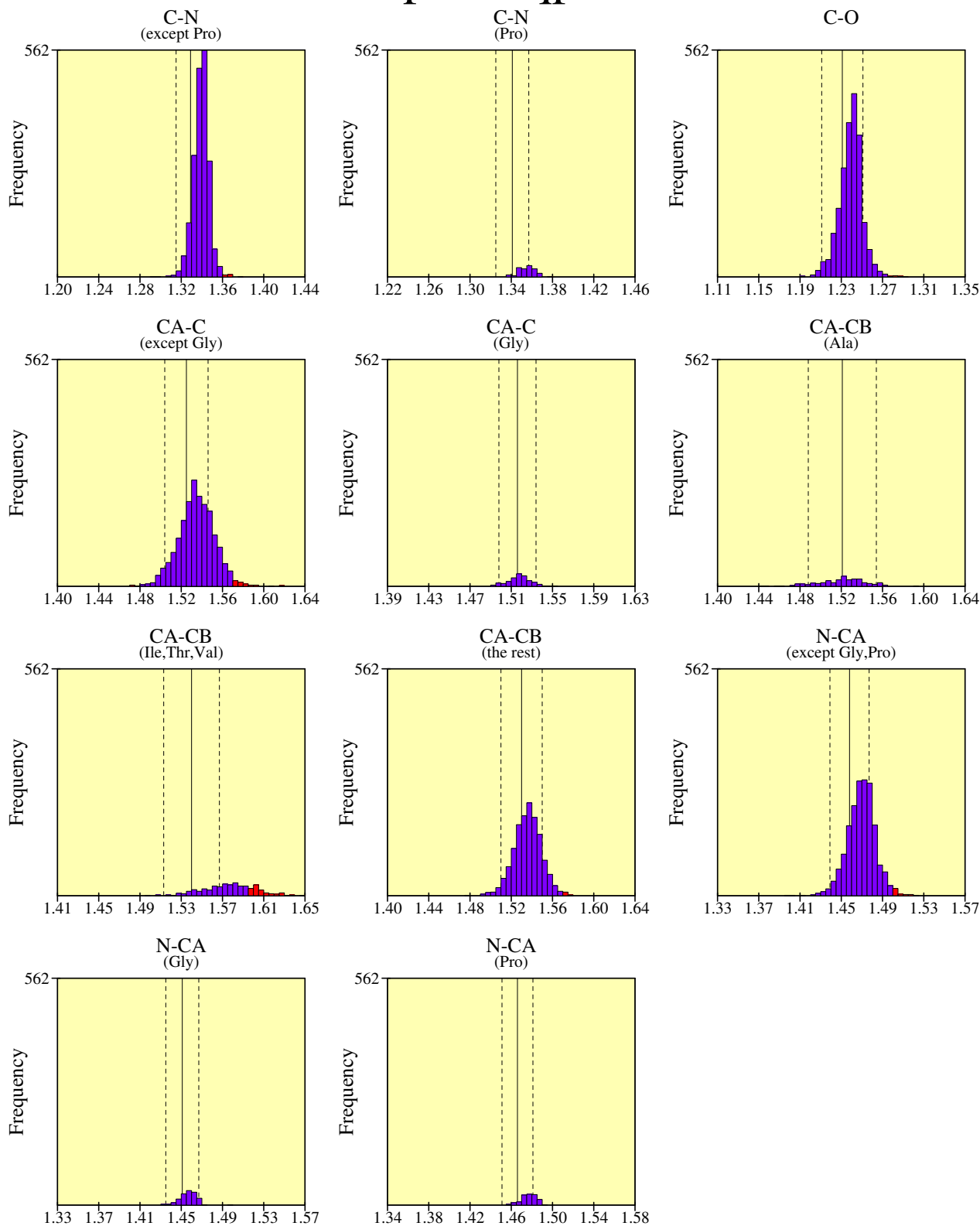


g. G-factors



Main-chain bond lengths

pdb1sqp

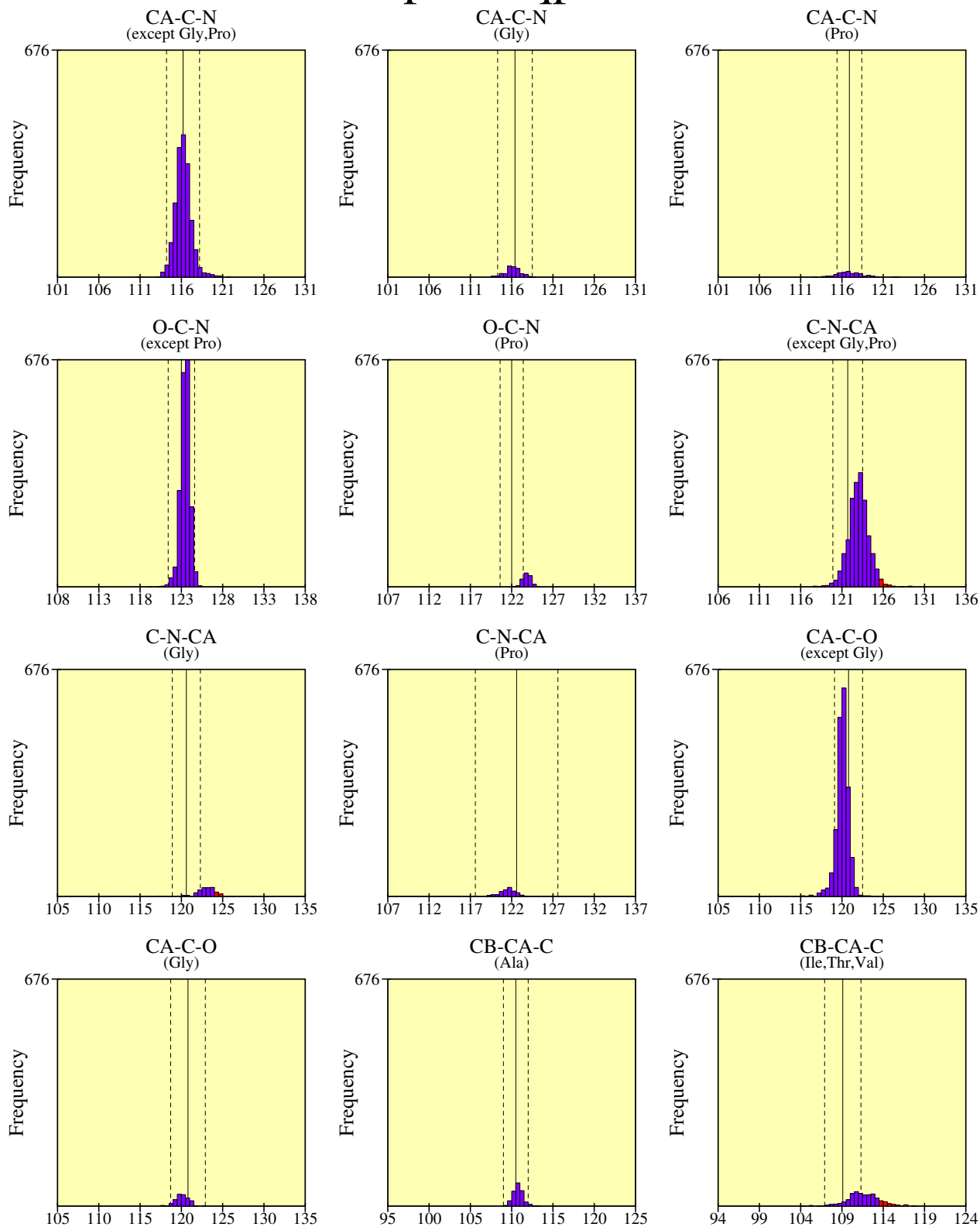


Black bars > 2.0 st. devs. from mean.

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

Main-chain bond angles

pdb1sqp

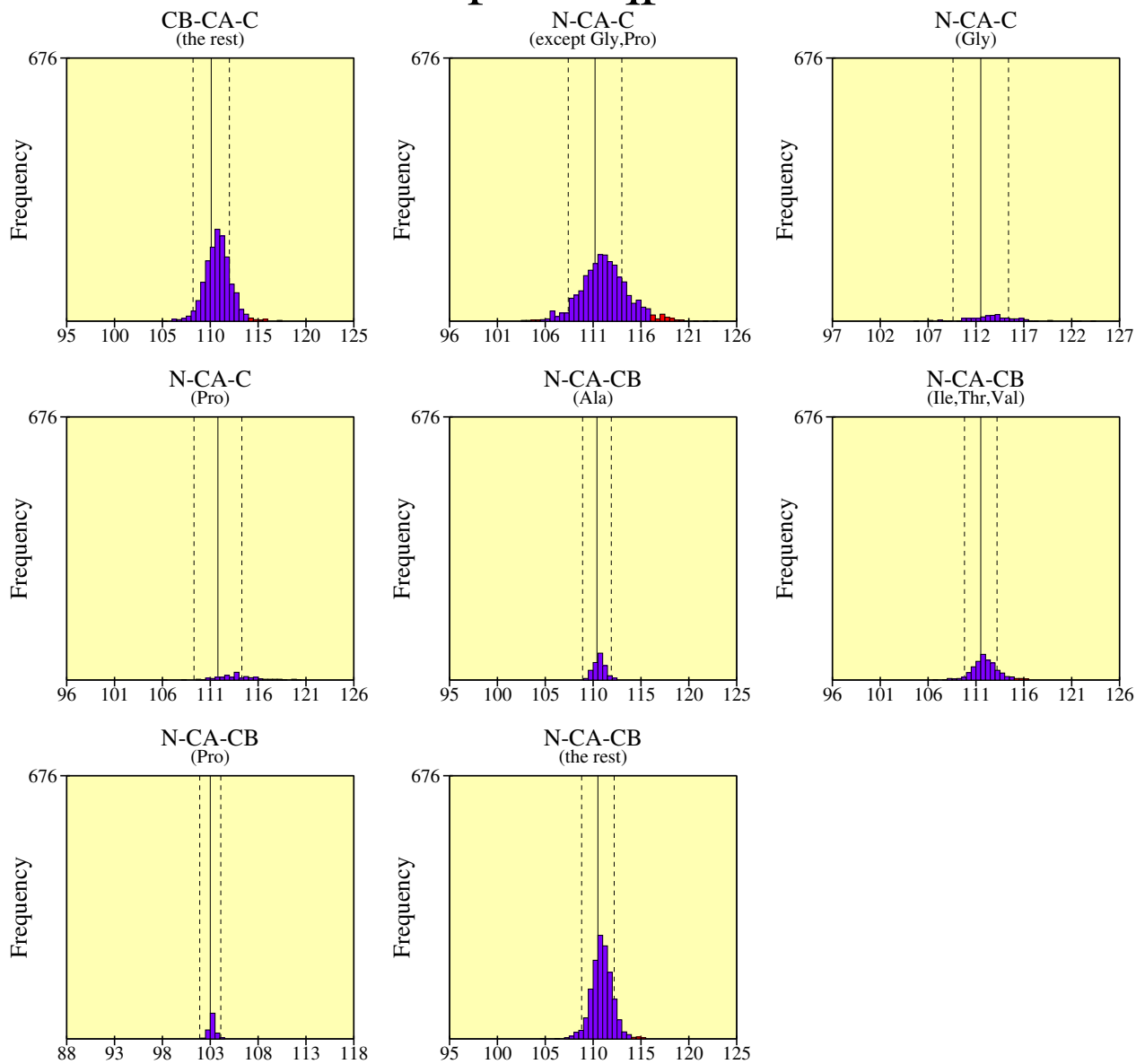


Black bars > 2.0 st. devs. from mean.

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

Main-chain bond angles

pdb1sqp

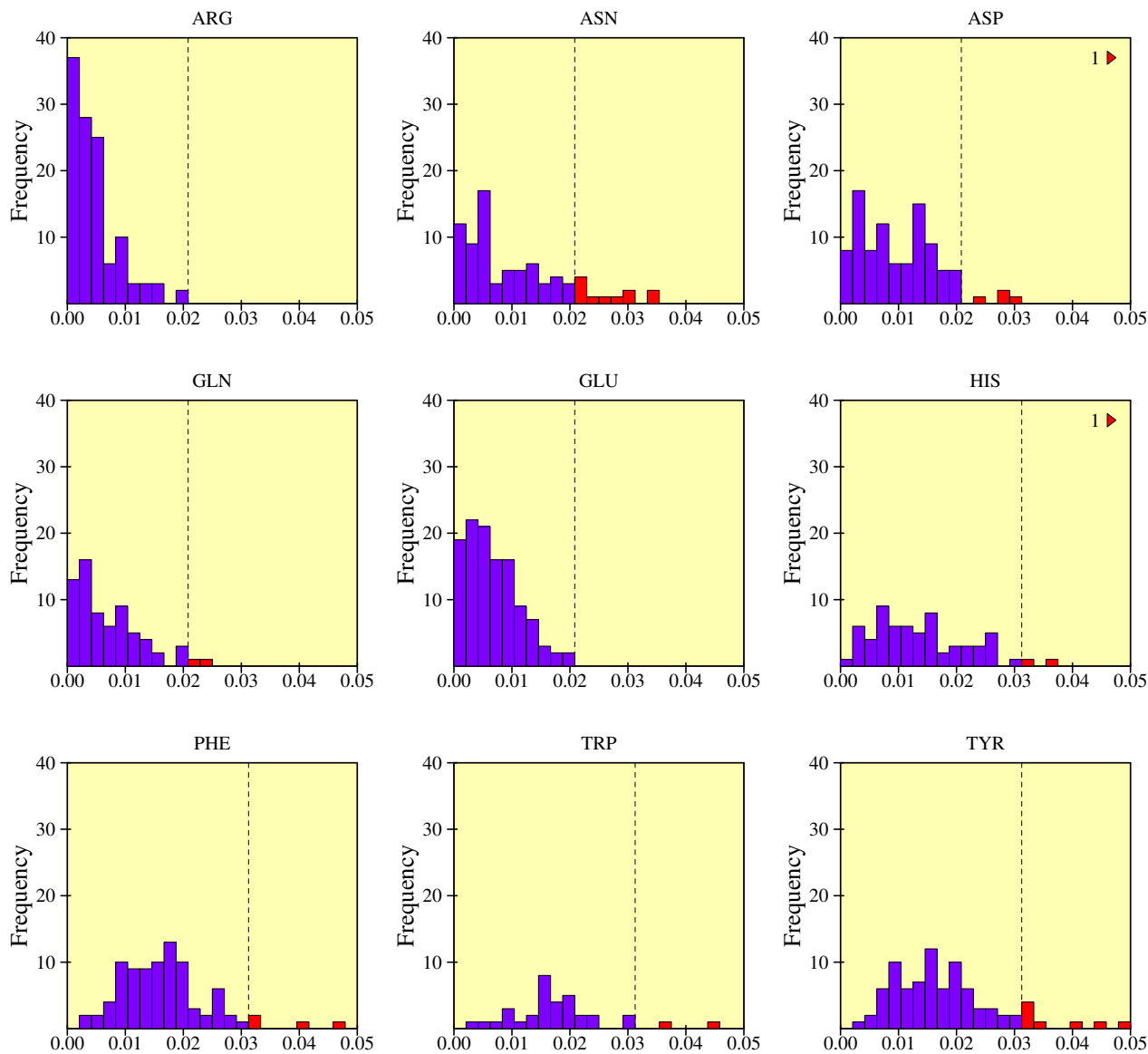


Black bars > 2.0 st. devs. from mean.

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

RMS distances from planarity

pdb1sqp



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.

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

Distorted geometry

pdb1sqp

Main-chain bond lengths

| | | | | | |
|--|--|--|--|--|--|
| CA 1.540 CB 0.067 1.607 A Val 11 | CA 1.540 CB 0.061 1.601 A Val 79 | CA 1.540 CB 0.051 1.591 A Ile 99 | CA 1.540 CB 0.086 1.626 A Ile 127 | CA 1.540 CB 0.053 1.593 A Val 196 | CA 1.521 CB 0.050 1.471 A Ala 212 |
| CA 1.540 CB 0.071 1.611 A Val 228 | CA 1.540 CB 0.051 1.591 A Val 272 | CA 1.540 CB 0.054 1.594 A Ile 297 | N 1.458 CA 0.057 1.515 A Lys 302 | CA 1.540 CB 0.057 1.597 A Ile 312 | C 1.231 O 0.053 1.284 A Phe 324 |
| CA 1.540 CB 0.066 1.606 A Val 325 | CA 1.540 CB 0.058 1.598 A Val 366 | CA 1.525 C 0.052 1.577 A Leu 369 | CA 1.540 CB 0.051 1.591 A Val 410 | CA 1.521 CB 0.074 1.447 A Ala 421 | C 1.231 O 0.056 1.287 A Pro 427 |
| CA 1.540 CB 0.091 1.631 B Val 17 | CA 1.525 C 0.057 1.582 B Pro 18 | CA 1.540 CB 0.051 1.591 B Ile 51 | CA 1.540 CB 0.053 1.593 B Val 98 | CA 1.525 C 0.053 1.577 B Asn 125 | C 1.231 O 0.050 1.281 B Ile 146 |
| CA 1.521 CB 0.080 1.441 B Ala 151 | CA 1.525 C 0.053 1.472 B Tyr 168 | N 1.458 CA 0.061 1.397 B Asn 170 | CA 1.530 CB 0.053 1.477 B Ser 175 | CA 1.540 CB 0.089 1.629 B Val 189 | C 1.231 O 0.050 1.281 B His 192 |
| CA 1.540 CB 0.064 1.604 B Ile 207 | CA 1.540 CB 0.060 1.600 B Val 211 | CA 1.540 CB 0.054 1.594 B Val 219 | CA 1.540 CB 0.064 1.604 B Ile 226 | CA 1.525 C 0.054 1.579 B Ser 233 | CA 1.525 C 0.081 1.606 B Ala 235 |
| N 1.458 CA 0.062 1.520 B Asp 250 | CA 1.525 C 0.051 1.474 B Leu 257 | CA 1.525 C 0.068 1.593 B Ile 264 | CA 1.540 CB 0.061 1.601 B Ile 264 | C 1.231 O 0.059 1.290 B Ala 281 | CA 1.540 CB 0.051 1.591 B Thr 292 |
| CA 1.540 CB 0.063 1.603 B Val 372 | CA 1.540 CB 0.050 1.590 B Thr 397 | CA 1.521 CB 0.060 1.461 B Ala 414 | C 1.231 O 0.056 1.287 B Ala 425 | CA 1.521 CB 0.063 1.458 B Ala 425 | CA 1.540 CB 0.070 1.610 B Ile 436 |
| CA 1.540 CB 0.057 1.597 C Ile 4 | CA 1.540 CB 0.065 1.605 C Ile 13 | CA 1.540 CB 0.054 1.594 C Val 14 | CA 1.540 CB 0.054 1.594 C Ile 19 | CA 1.540 CB 0.068 1.608 C Ile 42 | CA 1.540 CB 0.054 1.594 C Val 66 |
| CA 1.540 CB 0.063 1.603 C Ile 69 | CA 1.540 CB 0.079 1.619 C Ile 79 | CA 1.540 CB 0.109 1.648 C Ile 92 | CA 1.540 CB 0.056 1.596 C Thr 112 | CA 1.540 CB 0.057 1.597 C Ile 115 | CA 1.540 CB 0.064 1.604 C Ile 153 |
| CA 1.540 CB 0.076 1.616 C Ile 156 | CA 1.540 CB 0.052 1.592 C Ile 189 | CA 1.525 C 0.052 1.577 C Ile 192 | CA 1.540 CB 0.052 1.592 C Val 195 | CA 1.540 CB 0.055 1.595 C Thr 203 | CA 1.540 CB 0.055 1.595 C Ile 229 |

Distorted geometry

pdb1sqq

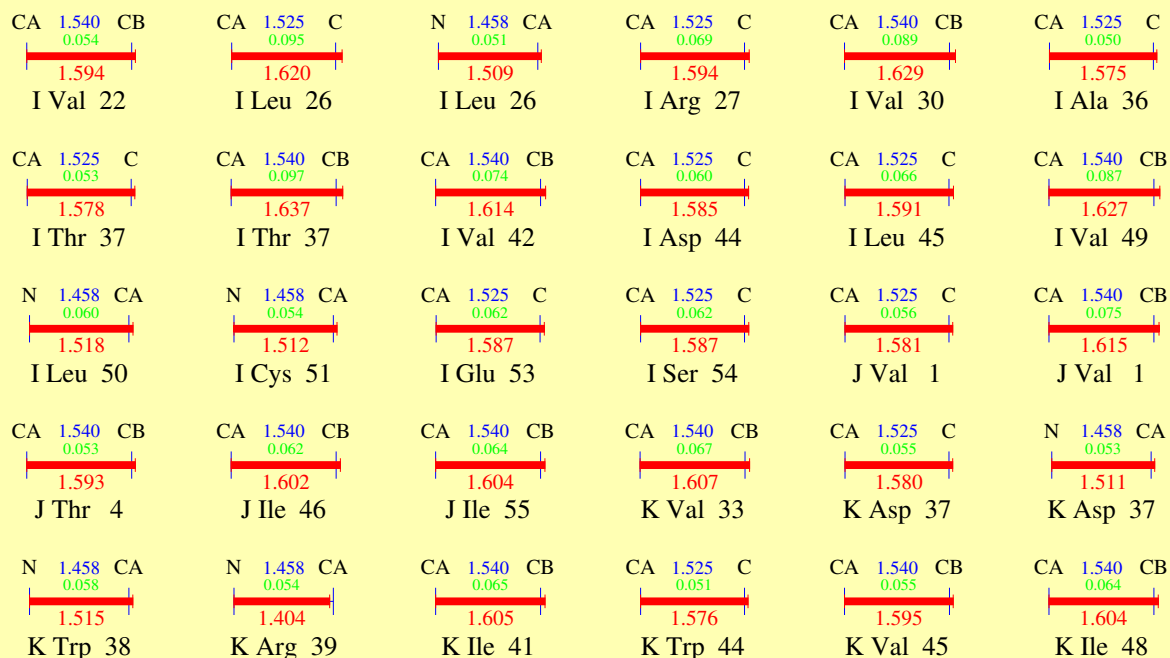
Main-chain bond lengths (contd)

| | | | | | |
|--|--|--|--|--|--|
| CA 1.540 CB 0.063 1.603 C Val 243 | CA 1.540 CB 0.058 1.598 C Thr 257 | CA 1.540 CB 0.060 1.600 C Thr 264 | CA 1.540 CB 0.055 1.595 C Ile 268 | CA 1.540 CB 0.069 1.609 C Ile 284 | CA 1.540 CB 0.062 1.602 C Ile 304 |
| CA 1.525 C 0.050 1.575 C Arg 318 | CA 1.540 CB 0.061 1.601 C Ile 338 | CA 1.525 C 0.061 1.586 C Val 343 | CA 1.540 CB 0.078 1.618 C Val 343 | CA 1.525 C 0.051 1.576 C His 345 | CA 1.540 CB 0.087 1.627 C Ile 348 |
| CA 1.540 CB 0.074 1.614 C Ile 350 | CA 1.540 CB 0.080 1.620 C Val 356 | CA 1.540 CB 0.083 1.623 C Val 364 | CA 1.525 C 0.055 1.580 D Leu 17 | CA 1.540 CB 0.080 1.620 D Ile 26 | N 1.458 CA 0.051 1.509 D Val 36 |
| CA 1.540 CB 0.055 1.595 D Val 46 | CA 1.540 CB 0.062 1.602 D Val 52 | CA 1.540 CB 0.056 1.596 D Val 68 | CA 1.540 CB 0.055 1.595 D Ile 116 | CA 1.540 CB 0.065 1.605 D Val 117 | CA 1.540 CB 0.052 1.592 D Val 127 |
| CA 1.540 CB 0.062 1.602 D Thr 132 | CA 1.540 CB 0.097 1.637 D Ile 158 | CA 1.540 CB 0.069 1.609 E Ile 5 | CA 1.540 CB 0.067 1.607 E Thr 22 | CA 1.540 CB 0.061 1.601 E Val 45 | CA 1.540 CB 0.084 1.624 E Val 55 |
| CA 1.540 CB 0.055 1.595 E Val 59 | CA 1.521 CB 0.069 1.590 E Ala 64 | CA 1.540 CB 0.072 1.612 E Ile 74 | CA 1.540 CB 0.052 1.592 E Ile 76 | CA 1.540 CB 0.061 1.601 E Ile 81 | CA 1.540 CB 0.051 1.590 E Thr 102 |
| CA 1.540 CB 0.073 1.613 E Ile 106 | CA 1.540 CB 0.067 1.607 E Val 112 | CA 1.540 CB 0.071 1.610 E Val 114 | CA 1.540 CB 0.054 1.594 E Val 127 | CA 1.540 CB 0.061 1.601 E Val 133 | CA 1.540 CB 0.060 1.600 E Val 138 |
| CA 1.540 CB 0.065 1.605 E Thr 140 | CA 1.540 CB 0.062 1.602 E Ile 147 | CA 1.540 CB 0.087 1.627 E Ile 171 | CA 1.540 CB 0.063 1.603 E Val 182 | CA 1.540 CB 0.065 1.605 E Val 193 | CA 1.540 CB 0.059 1.599 E Ile 194 |
| CA 1.540 CB 0.061 1.601 E Val 195 | CA 1.540 CB 0.066 1.606 F Val 6 | CA 1.525 C 0.051 1.474 F Phe 60 | CA 1.540 CB 0.055 1.595 F Thr 81 | CA 1.540 CB 0.065 1.605 G Ile 34 | CA 1.540 CB 0.053 1.593 G Val 48 |
| CA 1.540 CB 0.072 1.612 G Val 53 | CA 1.540 CB 0.054 1.594 G Val 58 | CA 1.525 C 0.053 1.578 G Asn 73 | CA 1.540 CB 0.060 1.600 H Val 14 | CA 1.540 CB 0.078 1.618 H Val 20 | CA 1.540 CB 0.063 1.603 H Val 31 |
| CA 1.540 CB 0.067 1.607 H Thr 50 | CA 1.540 CB 0.058 1.598 H Thr 55 | CA 1.540 CB 0.087 1.627 H Val 69 | CA 1.525 C 0.059 1.584 I Val 4 | CA 1.525 C 0.092 1.617 I Ala 17 | N 1.458 CA 0.056 1.514 I Thr 18 |

Distorted geometry

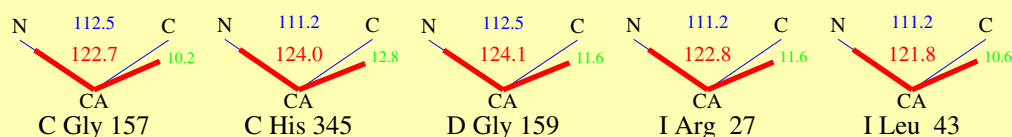
pdb1sqp

Main-chain bond lengths (contd)



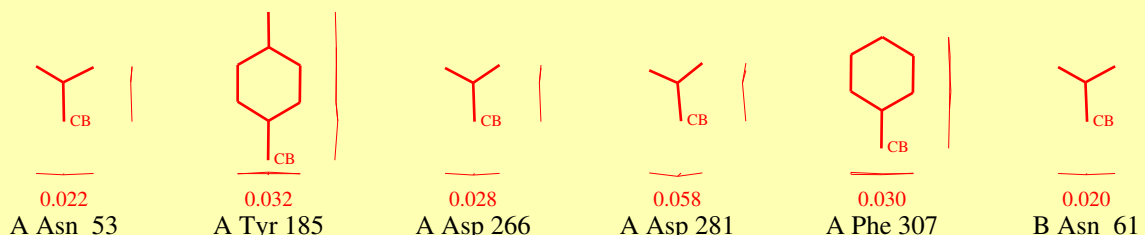
Bonds differing by > 0.05A from small-molecule values. Values shown: "ideal", difference, actual

Main-chain bond angles



Bond angles differing by > 10.0 degrees from small-molec values. Values shown: "ideal", actual, diff.

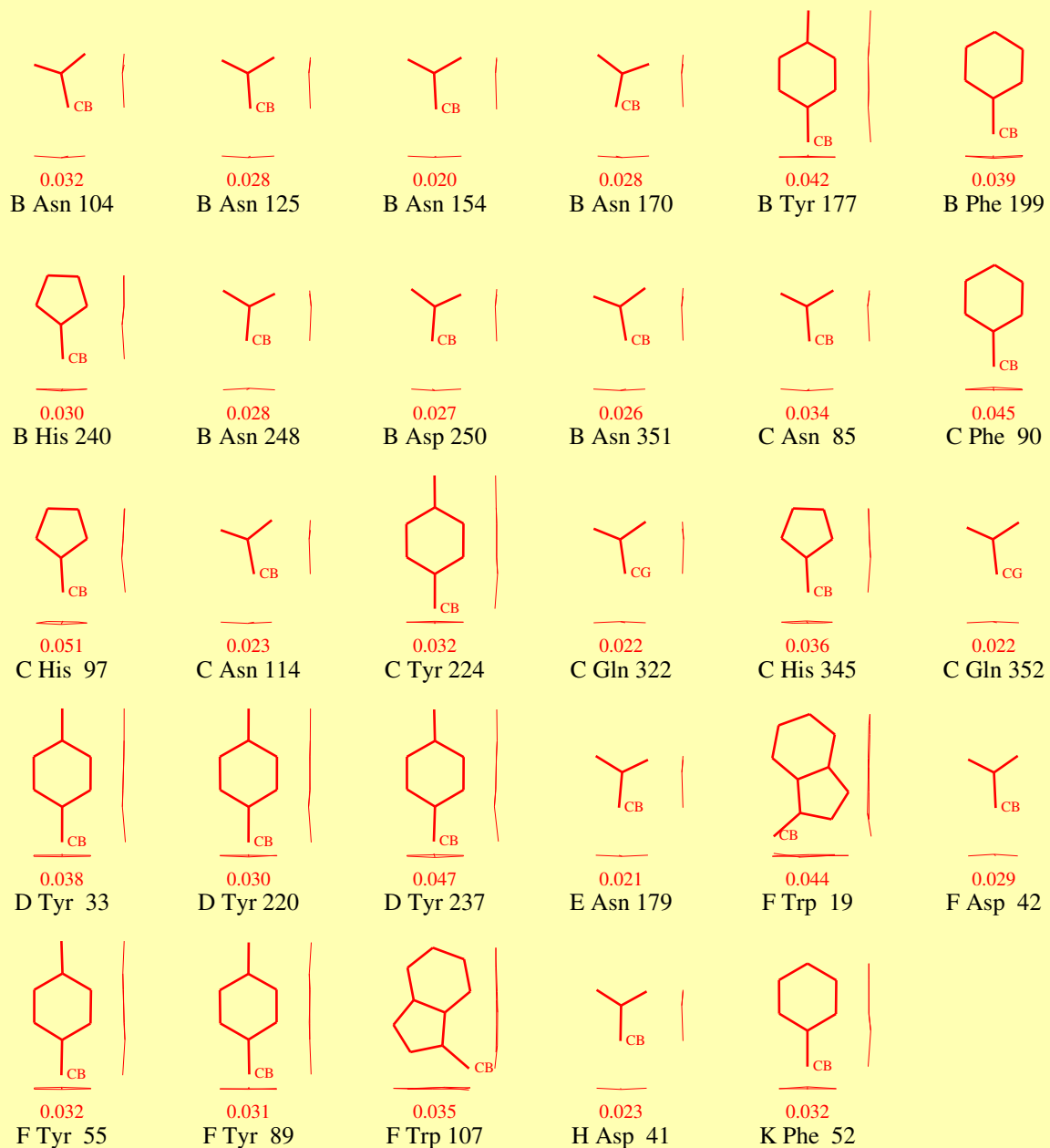
Planar groups



Distorted geometry

pdb1sqp

Planar groups (contd)



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