

Viewing pde6b_sm_343-446Hmulti.table

When finished, you should close this window.

Hint: Use File | Save As... to save a copy of this page.

| All-Atom | Clashscore, all atoms: | 34.99 | | 11 th percentile* (N=1784, all resolutions) | | |
|------------------|-------------------------------|---------------|-----------|--|--|--|
| Contacts | Clashscore is the number | of serious | steric ov | erlaps (> 0.4 Å) per 1000 atoms. | | |
| | Poor rotamers | 6 | 6.52% | Goal: <1% | | |
| | Ramachandran outliers | 4 | 3.92% | Goal: <0.05% | | |
| | Ramachandran favored | 86 84.31% | | Goal: >98% | | |
| Protein Geometry | MolProbity score [^] | 3.32 | | 13 th percentile* (N=27675, 0Å - 99Å) | | |
| geometry | Cβ deviations >0.25Å | 0 | 0.00% | Goal: 0 | | |
| | Bad backbone bonds: | 3 / 844 0.36% | | Goal: 0% | | |
| | Bad backbone angles: | 6 / 1136 | 0.53% | Goal: <0.1% | | |

In the two column results, the left column gives the raw count, right column gives the percentage.

[^] MolProbity score combines the clashscore, rotamer, and Ramachandran evaluations into a single score, normalized to be on the same scale as X-ray resolution.

| # | Alt | Res | High B | Clash > 0.4 Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
|----------|-----|-----|------------|--------------------------------------|--|---|-------------------|--------------------|--------------------|
| | | | Avg: 58.17 | Clashscore: 34.99 | Outliers: 4 of 102 | Poor rotamers: 6 of 92 | Outliers: 0 of 97 | Outliers: 2 of 104 | Outliers: 5 of 104 |
| A 343 | | GLY | 50 | - | - | - | - | - | - |
| A 344 | | LEU | 50 | 0.515Å HD11 with A 366 PHE N | Favored (20.28%) Pre-proline / -48.2,-55.0 | 9.1% (<i>mp</i>) chi angles: 284.4,63.8 | 0.138Å | - | - |
| A 345 | | PRO | 50 | 0.415Å HD2 with A 344 LEU N | Favored (5.05%) Trans-proline / -65.7,-46.5 | 96.3% (<i>Cg_endo</i>) chi angles: 30.4 | 0.068Å | - | - |
| A 346 | | SER | 50 | - | Favored (4.58%) General / -44.6,-38.8 | 33.9% (<i>t</i>) chi angles: 175.4 | 0.058Å | - | - |
| A 347 | | TYR | 50 | 0.65Å HA with A 350 GLU HG2 | Favored (8.6%) General / -80.2,-51.7 | 68.2% (<i>t80</i>) chi angles: 187,79.6 | 0.055Å | - | - |
| | | | | | Allowed | | | | |

^{* 100&}lt;sup>th</sup> percentile is the best among structures of comparable resolution; 0th percentile is the worst. For clashscore the comparative set of structures was selected in 2004, for MolProbity score in 2006.

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|-----------|-----|----|---|--|--|--------|---|---------------------------|
| A 348 | VAL | 50 | - | (0.44%) Isoleucine or valine / -41.8,-58.3 | 92.7% (<i>t</i>) chi angles: 178.1 | 0.012Å | - | - |
| A 349 | ALA | 50 | - | Allowed (1.5%) General / -42.7,-60.6 | - | 0.038Å | - | - |
| A 350 | GLU | 50 | 0.65Å HG2 with A 347 TYR HA | Favored (63.31%) General / -69.3,-15.2 | 12.9% (<i>pt-20</i>) chi angles: 64.1,181,68.1 | 0.124Å | - | - |
| A 351 | SER | 50 | - | Favored (9.09%) General / -115.6,-22.7 | 49.4% (<i>m</i>) chi angles: 300.8 | 0.043Å | - | - |
| A 352 | GLY | 50 | - | Favored (73.24%) Glycine / 65.7,28.0 | - | - | - | - |
| A 353 | PHE | 50 | - | Favored (53%) General / -118.6,137.8 | 1.9% (<i>m-85</i>) chi angles: 290,35.8 | 0.055Å | - | - |
| A 354 | ILE | 50 | 0.807Å HG22 with A 387 PRO HD2 | Favored (2.45%) Isoleucine or valine / -61.6,159.3 | 27.4% (<i>pt</i>) chi angles: 67.1,178.4 | 0.058Å | - | - |
| A 355 | CYS | 50 | - | Favored (30.04%) General / -135.1,127.3 | 78.4% (<i>m</i>) chi angles: 299.3 | 0.012Å | - | - |
| A 356 | ASN | 50 | 0.564Å HD21 with A 410 PHE HB2 | Allowed (1.59%) General / -119.6,80.6 | 0.4% chi angles: 195.3,168.6 | 0.042Å | - | - |
| A 357 | ILE | 50 | 0.449Å HG13 with A 383 VAL HB | Favored (9.48%) Isoleucine or valine / -77.8,145.7 | 0% chi angles: 354.6,269.9 | 0.053Å | - | - |
| A 358 | MET | 50 | 0.51Å HA with A 382 ASN OD1 | Favored (7.98%) General / -100.3,-39.5 | 65.9% (<i>mtt</i>) chi angles: 294.6,180.9,178.1 | 0.053Å | - | - |
| A 359 | ASN | 50 | - | Favored (9.31%) General / -130.5,107.6 | 25.8% (<i>t-20</i>) chi angles: 187.2,298.9 | 0.042Å | - | - |
| Α | | | 0.726Å HB1 with A | Favored (39.96%) | | | | OUTLIER(S) worst is N- |

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|-----------|-----|---------------|---|--|---|-------------------|--------------------|---|
| 360 | ALA | 50 | 366 PHE CD2 | General / -53.6,-30.0 | - | 0.185Å | - | CA-CB: 4.859 σ |
| A 361 | SER | 50 | - | Favored (68.2%) General / -69.8,-30.6 | 34.2% (<i>m</i>) chi angles: 303.7 | 0.039Å | - | - |
| A 362 | ALA | | - | Favored (69.94%) General / -61.3,-29.6 | - | 0.021Å | - | - |
| # Alt | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
| | | Avg: 58.17 | Clashscore: 34.99 | Outliers: 4 of 102 | Poor rotamers: 6 of 92 | Outliers: 0 of 97 | Outliers: 2 of 104 | Outliers: 5 of 104 |
| A 363 | ASP | 50 | 0.411Å OD2 with A 357 ILE HD12 | Favored (31.12%) General / -73.2,126.9 | 0.4% chi angles: 227.4,282.4 | 0.033Å | - | - |
| A 364 | GLU | 50 | - | Favored (15.78%) General / -76.8,2.0 | 12.1% (<i>pt-20</i>) chi angles: 65.4,176.7,56.7 | 0.024Å | - | - |
| A 365 | MET | 50 | - | Favored (9.96%) General / -114.2,-22.4 | 64.8% (<i>mtt</i>) chi angles: 292.3,183.2,177.8 | 0.074Å | - | - |
| A 366 | PHE | 50 | 0.74Å HE1 with A 368 PHE HA | Favored (32.27%) General / -52.9,130.1 | 0.5% chi angles: 183,305.7 | 0.06Å | - | - |
| A 367 | LYS | 99.99 | - | Favored (14.57%) General / -106.9,104.8 | 99% (<i>mttt</i>) chi angles: 292.8,183.4,178,180.9 | 0.008Å | - | - |
| A 368 | PHE | 50 | 0.74Å HA with A 366 PHE HE1 | Favored (27.59%) General / -79.7,1.1 | 44.4% (<i>p</i> 90) chi angles: 69.5,270.9 | 0.157Å | - | OUTLIER(S) worst is CA- CB-CG: 4.063 σ |
| A 369 | GLN | 99.99 | - | Favored (72.61%) General / -58.2,-36.0 | 94% (<i>mt-30</i>) chi angles: 298.5,182.2,328.8 | 0.078Å | - | - |
| A 370 | GLU | 50 | 1.175Å HA with A 374 ASP HB3 | Favored (64.4%) General / -70.7,-45.8 | 7.2% (<i>pt-20</i>) chi angles: 79,170,55.5 | 0.244Å | - | - |
| A 371 | GLY | 50 | - | Favored (96.7%) Glycine / -63.2,-38.6 | - | - | - | - |

| A 372 | ALA | 50 | - | Allowed (0.51%) General / -64.5,-66.7 | - | 0.041Å | - | - |
|----------|---------|---------------|--|---|---|----------------------|--|---|
| A 373 | LEU | 99.99 | - | Favored (4.84%) General / -121.4,-27.3 | 8.8% (tt) chi angles: 185.5,158.6 | 0.058Å | - | - |
| A 374 | ASP | 99.99 | 1.175Å HB3 with A 370 GLU HA | Favored (75.73%) General / -63.8,-33.5 | 2.3% (<i>t70</i>) chi angles: 165.1,274 | 0.153Å | - | OUTLIER(S) worst is CA- CB-CG: 5.827 σ |
| A 375 | ASP | 99.99 | 0.546Å CG with A 378 TRP HB2 | Favored (12.56%) General / -108.0,24.7 | 42.7% (<i>t0</i>) chi angles: 191.3,331.1 | 0.038Å | - | - |
| A 376 | SER | 99.99 | - | Favored (4.08%) General / 53.7,24.1 | 37.5% (t) chi angles: 182.1 | 0.083Å | - | - |
| A 377 | GLY | 50 | - | Allowed (0.95%) Glycine / 96.9,61.6 | - | - | - | - |
| A 378 | TRP | 99.99 | 0.546Å HB2 with A 375 ASP CG | Favored (21.15%) General / -93.5,149.5 | 77.1% (<i>t-105</i>) chi angles: 181.5,254.5 | 0.11Å | OUTLIER(S) worst is NE1 CE2: 4.006 σ | - |
| A 379 | LEU | 50 | - | Favored (4.13%) General / -111.2,92.7 | 9.4% (tt) chi angles: 186.7,157 | 0.089Å | - | - |
| A 380 | ILE | 99.99 | 0.529Å HD12 with A 366 PHE HZ | Allowed (1.5%) Isoleucine or valine / -70.7,105.5 | 47.4% (<i>mt</i>) chi angles: 307.7,178.2 | 0.103Å | - | - |
| A 381 | LYS | 50 | 0.585Å HG3 with A 382 ASN ND2 | Allowed (0.3%) General / -88.2,-79.6 | 27.3% (<i>tptp</i>) chi angles: 186.1,63.3,182.9,70.2 | 0.084Å | - | - |
| A 382 | ASN | 50 | 0.585Å ND2 with A 381 LYS HG3 | Favored (34.79%) General / -111.0,147.4 | 33.1% (<i>m-80</i>) chi angles: 294.2,267.3 | 0.043Å | - | - |
| # | Alt Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
| | | Avg: 58.17 | Clashscore: 34.99 | Outliers: 4 of 102 | Poor rotamers: 6 of 92 | Outliers: 0 of 97 | Outliers: 2 of 104 | Outliers: 5 of 104 |
| | | | | Favored | | | | |

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|-----------|-------|-------|---|--|---|--------|---|---|
| A 383 | VAL 9 | 99.99 | 0.449Å HB with A 357 ILE HG13 | (54.28%) Isoleucine or valine / -134.0,129.6 | 92.3% (<i>t</i>) chi angles: 177 | 0.049Å | - | - |
| A 384 | LEU | 50 | 0.586Å O with A 400 THR HA | Favored (14.22%) General / -116.0,106.8 | 16.8% (<i>tp</i>) chi angles: 190.7,50.4 | 0.027Å | - | - |
| A 385 | SER | 50 | 0.558Å HA with A 400 THR HG22 | Favored (5.25%) General / -123.8,97.2 | 30.7% (t) chi angles: 184.8 | 0.032Å | - | - |
| A 386 | MET | 50 | 0.479Å HE1 with A 415 GLU O | Favored (22.36%) Pre-proline / -113.8,137.6 | 0.1% chi angles: 312.3,236.2,266 | 0.022Å | - | - |
| A 387 | PRO | 50 | 0.807Å HD2 with A 354 ILE HG22 | Favored (60.38%) Trans-proline / -71.3,151.3 | 44.5% (<i>Cg_endo</i>) chi angles: 35.6 | 0.034Å | - | - |
| A 388 | ILE | 50 | 0.534Å O with A 395 ILE HD12 | Favored (49.97%) Isoleucine or valine / -118.0,115.9 | 96.6% (<i>mt</i>) chi angles: 295.6,172.8 | 0.08Å | - | - |
| A 389 | VAL | 50 | 0.52Å O with A 426 GLY HA3 | Favored (24.57%) Isoleucine or valine / -116.8,144.4 | 33.6% (<i>m</i>) chi angles: 299.6 | 0.076Å | - | - |
| A 390 | ASN | 50 | - | Favored (3.97%) General / -73.7,179.8 | 36.2% (<i>p30</i>) chi angles: 59.5,28.4 | 0.039Å | - | - |
| A 391 | LYS | 50 | 0.687Å HG2 with A 427 TRP HD1 | Favored (61.97%) General / -56.0,-30.5 | 31.9% (<i>mmmt</i>) chi angles: 295.9,303,283.7,181.4 | 0.09Å | - | - |
| A 392 | LYS | 50 | - | Favored (16.66%) General / -84.3,8.2 | 56% (<i>mtpt</i>) chi angles: 294.8,184.3,66.7,181.9 | 0.041Å | - | - |
| A 393 | GLU | 50 | - | Favored (3.48%) General / 72.1,0.2 | 50.6% (<i>mt-10</i>) chi angles: 293,175.2,289.3 | 0.129Å | - | - |
| A 394 | GLU | 50 | 0.412Å O with A 389 VAL HA | Favored (45.83%) General / -55.4,138.6 | 68.1% (<i>mt-10</i>) chi angles: 297.9,163.1,329 | 0.104Å | - | - |

| A 395 | ILE | 50 | 0.638Å HD13 with A 387 PRO HB2 | Favored (35.29%) Isoleucine or valine / -83.9,120.7 | 9.2% (<i>tp</i>) chi angles: 185.5,60.8 | 0.108Å | - | - |
|----------|--------|------------|---|--|--|-------------------|--------------------|--------------------|
| A 396 | VAL | 50 | - | Favored (9.68%) Isoleucine or valine / -108.4,-14.8 | 35% (<i>m</i>) chi angles: 298.3 | 0.091Å | - | - |
| A 397 | GLY | 50 | - | Favored (27.91%) Glycine / -175.9,160.1 | - | - | - | - |
| A 398 | VAL | 50 | - | Favored (40.85%) Isoleucine or valine / -125.9,143.0 | 26.2% (<i>t</i>) chi angles: 186.5 | 0.04Å | - | - |
| A 399 | ALA | 50 | - | Favored (33.85%) General / -135.4,129.8 | - | 0.042Å | - | - |
| A 400 | THR | 50 | 0.586Å HA with A 384 LEU O | Favored (47.65%) General / -134.9,144.8 | 6.5% (p) chi angles: 79.5 | 0.048Å | - | - |
| A 401 | PHE | 50 | - | Favored (55.49%) General / -120.4,133.1 | 1.4% (<i>m-85</i>) chi angles: 292.6,37.5 | 0.04Å | - | - |
| A 402 | TYR | 50 | - | Favored (55.46%) General / -115.3,134.1 | 55.1% (<i>p90</i>) chi angles: 62.3,88.4 | 0.018Å | - | - |
| # A | It Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
| | | Avg: 58.17 | Clashscore: 34.99 | Outliers: 4 of 102 | Poor rotamers: 6 of 92 | Outliers: 0 of 97 | Outliers: 2 of 104 | Outliers: 5 of 104 |
| A 403 | ASN | | J4.77 - | Allowed (0.08%) General / 57.5,86.0 | 97.5% (<i>m</i> -20) chi angles: 292,341.2 | 0.031Å | - - | - - |
| A 404 | ARG | 99.99 | 0.674Å NH1 with A 405 LYS HB3 | Favored (3.65%) General / -58.5,116.4 | 50.1% (<i>tpt85</i>) chi angles: 180.5,58.7,182.3,92.3 | 0.134Å | - | - |
| A 405 | LYS | 99.99 | 0.674Å HB3 with A 404 ARG | OUTLIER (0.02%) General / | 21.3% (pttp) chi angles: 61,188.7,179.9,58.3 | 0.037Å | - | - |

| 2/17/2015 | | | NH1 | | b_sm_343-446H-multi.table - MolP | robity | | |
|-----------|-----|-------|---|--|--|--------|---|---|
| A 406 | ASP | 99.99 | NH1 - | 42.3,22.6 Favored (25.3%) General / 58.6,38.5 | 30.9% (<i>t70</i>) chi angles: 180.5,76.1 | 0.136Å | - | - |
| A 407 | GLY | 99.99 | - | Favored (20.86%) Glycine / 174.5,159.5 | - | - | - | - |
| A 408 | LYS | 50 | 0.658Å HB3 with A 405 LYS NZ | Allowed (0.1%) Pre-proline / 62.1,166.7 | 18.9% (<i>tptp</i>) chi angles: 170.8,82,190,61.3 | 0.109Å | - | OUTLIER(S) worst is CA- CB-CG: 4.745 σ |
| A 409 | PRO | 50 | 0.538Å HD2 with A 408 LYS HD2 | Allowed (0.13%) Trans-proline / -90.1,-163.3 | 65.9% (<i>Cg_endo</i>) chi angles: 33.9 | 0.055Å | - | - |
| A 410 | PHE | 50 | 0.564Å HB2 with A 356 ASN HD21 | Favored (45.33%) General / -99.6,125.3 | 18.1% (<i>m-85</i>) chi angles: 281.8,307.7 | 0.023Å | - | - |
| A 411 | ASP | 50 | - | Favored (25.89%) General / -63.9,157.0 | 46.7% (<i>m-20</i>) chi angles: 299.7,294.7 | 0.017Å | - | - |
| A 412 | GLU | 50 | - | Favored (94.36%) General / -60.2,-42.0 | 47.5% (tt0) chi angles: 195.9,183.8,328.9 | 0.073Å | - | - |
| A 413 | GLN | 50 | - | Favored (80.1%) General / -59.0,-38.9 | 52.2% (tt0) chi angles: 182.3,184.9,58.1 | 0.027Å | - | - |
| A 414 | ASP | 50 | - | Favored (96.86%) General / -60.6,-42.6 | 5.5% (<i>m-20</i>) chi angles: 265.4,333 | 0.113Å | - | - |
| A 415 | GLU | 50 | 0.479Å O with A 386 MET HE1 | Favored (63.78%) General / -54.0,-51.5 | 31.1% (<i>mt-10</i>) chi angles: 286.7,165.5,280.4 | 0.06Å | - | - |
| A 416 | VAL | 50 | 0.432Å HA with A 419 GLU HG2 | OUTLIER (0.07%) Isoleucine or valine / -51.5,-72.5 | 58.2% (<i>t</i>) chi angles: 180.4 | 0.099Å | - | - |
| A 417 | LEU | 50 | - | Favored (3%) General / -41.9,-43.4 | 92.9% (<i>mt</i>) chi angles: 291.8,174.6 | 0.035Å | - | - |
| Α | | | 0.498Å | Favored (64.99%) | 50.8% (<i>tpp</i>) | | | |

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|------------------------|-------------------|---------------|---|--|---|-------------------|--------------------|-----------------------|
| 418 | MET | 50 | O with A 422 THR HG23 | General / -71.9,-43.7 | chi angles: 183.6,68.7,62.2 | 0.055Å | - | - |
| A 419 | GLU | 50 | 0.432Å HG2 with A 416 VAL HA | Favored (64.8%) General / -72.5,-30.7 | 12.6% (<i>pt-20</i>) chi angles: 65.8,184,64.6 | 0.103Å | - | - |
| A 420 | SER | 50 | 0.756Å O with A 423 GLN HG2 | Favored (2.12%) General / -62.7,-61.9 | 46.1% (<i>t</i>) chi angles: 178.9 | 0.019Å | - | - |
| A 421 | LEU | 50 | - | Favored (62.83%) General / -53.7,-37.1 | 9.4% (tt) chi angles: 181.8,155.6 | 0.08Å | - | - |
| A 422 | THR | 50 | 0.498Å HG23 with A 418 MET O | Favored (82.43%) General / -65.9,-36.1 | 68.1% (<i>p</i>) chi angles: 59.6 | 0.084Å | - | - |
| # Alt | Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
| | | Avg: 58.17 | Clashscore: 34.99 | Outliers: 4 of 102 | Poor rotamers: 6 of 92 | Outliers: 0 of 97 | Outliers: 2 of 104 | Outliers: 5 of 104 |
| | | 30.17 | 0.756Å | Favored | 10.9% (pt20) | 0 01 37 | 01 104 | 01 104 |
| A 423 | GLN | 50 | HG2 with A 420 SER O | (74.24%) General / -60.3,-34.8 | chi angles: 77.5,186.4,42.2 | 0.098Å | - | - |
| | GLN PHE | 50 50 | HG2 with A | General / | chi angles: | 0.098Å 0.049Å | - | - |
| 423 A | | | HG2 with A | General / -60.3,-34.8 Favored (59.07%) General / | chi angles: 77.5,186.4,42.2 43.7% (<i>m</i> -85) | | - | - |
| 423 A 424 | РНЕ | 50 | HG2 with A 420 SER O - 0.489Å O with A 429 | General / -60.3,-34.8 Favored (59.07%) General / -67.7,-50.1 Favored (39.67%) General / | chi angles: 77.5,186.4,42.2 43.7% (<i>m</i> -85) chi angles: 281.7,286.8 | 0.049Å | - | - |
| A 424 A 425 | PHE LEU | 50 50 | HG2 with A 420 SER O - 0.489Å O with A 429 VAL HG12 0.52Å HA3 with A | General / -60.3,-34.8 Favored (59.07%) General / -67.7,-50.1 Favored (39.67%) General / -49.2,-42.1 Favored (93.47%) Glycine / | chi angles: 77.5,186.4,42.2 43.7% (<i>m</i> -85) chi angles: 281.7,286.8 | 0.049Å | - | - |
| A 424 A 425 A 426 A | PHE LEU GLY | 50 50 | - 0.489Å O with A 429 VAL HG12 0.52Å HA3 with A 389 VAL O 0.687Å HD1 with A | General / -60.3,-34.8 Favored (59.07%) General / -67.7,-50.1 Favored (39.67%) General / -49.2,-42.1 Favored (93.47%) Glycine / -58.6,-39.5 Allowed (0.53%) General / | chi angles: 77.5,186.4,42.2 43.7% (<i>m</i> -85) chi angles: 281.7,286.8 90.5% (<i>mt</i>) chi angles: 291.8,175.8 | 0.049Å 0.075Å | | - |

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|-----------|-----|-------|--|--|---|--------|-------------------------|--|
| A 429 | VAL | 50 | HG12 with A 425 LEU O | Isoleucine or valine / -66.4,-41.4 | 9.3% (p) chi angles: 68.1 | 0.106Å | - | - |
| A 430 | MET | 50 | - | Favored (82.04%) General / -63.3,-35.9 | 15.1% (<i>tpt</i>) chi angles: 185.4,58.8,180.7 | 0.013Å | - | - |
| A 431 | ASN | 50 | - | Favored (87.03%) General / -67.0,-39.1 | 96.1% (<i>m-20</i>) chi angles: 287.3,333.8 | 0.025Å | - | - |
| A 432 | THR | 50 | - | Favored (89.33%) General / -58.9,-42.3 | 98.4% (<i>m</i>) chi angles: 299 | 0.038Å | - | - |
| A 433 | ASP | 50 | - | Favored (76.93%) General / -69.7,-38.5 | 38.8% (<i>t70</i>) chi angles: 184.3,62.9 | 0.052Å | - | - |
| A 434 | THR | 50 | 0.777Å HA with A 438 MET SD | Favored (62.6%) General / -71.9,-27.1 | 73.1% (<i>p</i>) chi angles: 63.5 | 0.109Å | - | - |
| A 435 | TYR | 50 | - | Favored (45.31%) General / -77.5,-39.6 | 43.2% (<i>t80</i>) chi angles: 180.3,58.2 | 0.05Å | - | - |
| A 436 | ASP | 99.99 | 0.471Å O with A 438 MET HG2 | Favored (2.07%) General / -114.2,-172.3 | 25.5% (<i>p30</i>) chi angles: 64,29.1 | 0.084Å | - | - |
| A 437 | LYS | 99.99 | 0.944Å HA with A 441 LEU HD12 | OUTLIER (0.04%) General / 47.8,13.5 | 24.1% (<i>tptp</i>) chi angles: 189.4,59.6,189.7,68.1 | 0.212Å | - | - |
| A 438 | MET | 99.99 | 0.777Å SD with A 434 THR HA | OUTLIER (0.01%) General / -173.3,-79.6 | 21.8% (<i>ptp</i>) chi angles: 65.9,170.8,76.6 | 0.173Å | - | OUTLIER(S) worst is CA- C-N: 6.579 σ |
| A 439 | ASN | 50 | 0.626Å H with A 438 MET HG3 | Favored (28.94%) General / -62.6,-55.2 | 20% (<i>m120</i>) chi angles: 290.3,137.3 | 0.148Å | - | - |
| A 440 | LYS | 50 | - | Favored (75.39%) General / -56.2,-41.3 | 32% (<i>mmmt</i>) chi angles: 291.2,294.3,294,180.9 | 0.016Å | - | - |
| A | LEU | 50 | 0.944Å HD12 with A | Favored (63.03%) | 19.3% (<i>mt</i>) chi angles: 282.8,186.2 | 0.168Å | OUTLIER(S) worst is CO: | |

| 2/17/2015 | 5 | | | Viewing pde6b | _sm_343-446H-multi.table - Moll | Probity | | |
|-----------|---------|---------------|-------------------|---|---|-------------------|--------------------|--------------------|
| 441 | | | 437 LYS HA | General / -68.6,-48.9 | | | 4.694 σ | |
| A 442 | GLU | 50 | - | Favored (65.71%) General / -57.0,-32.0 | 59.7% (<i>mt-10</i>) chi angles: 281.5,170.7,321.4 | 0.048Å | - | - |
| # | Alt Res | High B | Clash > 0.4Å | Ramachandran | Rotamer | Cβ deviation | Bond lengths | Bond angles |
| | | Avg: 58.17 | Clashscore: 34.99 | Outliers: 4 of 102 | Poor rotamers: 6 of 92 | Outliers: 0 of 97 | Outliers: 2 of 104 | Outliers: 5 of 104 |
| A 443 | ASN | 50 | - | Allowed (0.51%) General / -63.7,-66.7 | 0.7% chi angles: 254.5,112 | 0.044Å | - | - |
| A 444 | ARG | 50 | - | Favored (5.47%) General / -44.9,-39.5 | 21.2% (<i>tpp85</i>) chi angles: 182.6,60.7,67.3,81.2 | 0.023Å | - | - |
| A 445 | LYS | 50 | - | Favored (96.86%) General / -62.8,-44.2 | 39% (<i>ttpt</i>) chi angles: 185.1,182,64,181.3 | 0.027Å | - | - |
| A 446 | ASP | 99.99 | - | - | 34.8% (<i>t70</i>) chi angles: 185.5,68.8 | 0.055Å | - | - |

About MolProbity | Website for the Richardson Lab | Using ecloud x-H | Internal reference 4.1-537