**Table 1. Characteristics of seven bacterial outer membrane alpha-helical enzymes in their native form and water-soluble QTY-modified variants.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | RMSD | pI | MW (kDa) | TM variations (%) | Overall variations (%) |
| PlsY[O66905](https://www.uniprot.org/uniprotkb/O66905/entry) | \_\_\_ | 10.16 | 21.84 | \_\_\_ | \_\_\_ |
| PlsYQTY | 0.460 Å | 9.59 | 22.28 | 57.80 | 31.34 |
| **pgpB**  [**P0A924**](https://www.uniprot.org/uniprotkb/P0A924/entry) | \_\_\_ | 10.3 | 28.89 | \_\_\_ | \_\_\_ |
| **pgpB**QTY | 0.632 Å | 9.85 | 29.16 | 41.03 | 18.97 |
| hppA[Q9S5X0](https://www.uniprot.org/uniprotkb/Q9S5X0/entry) | \_\_\_ | 6.64 | 78.15 | \_\_\_ | \_\_\_ |
| hppAQTY | 0.472 Å | 6.64 | 78.99 | 43.27 | 20.14 |
| **dgkA**[P0ABN1](https://www.uniprot.org/uniprotkb/P0ABN1/entry) | \_\_\_ | 6.22 | 14.18 | \_\_\_ | \_\_\_ |
| **dgkA**QTY | 0.689 Å | 6.22 | 14.23 | 52.17 | 18.46 |
| Lit  [**Q813T3**](https://www.uniprot.org/uniprotkb/Q813T3/entry) | \_\_\_\_ | 8.66 | 27.60 | \_\_\_ | \_\_\_ |
| LitQTY | 0.433 Å | 8.59 | 27.74 | 50.56 | 18.99 |
| **STE24** [O75844](https://www.uniprot.org/uniprotkb/O75844/entry) |  | 6.77 | 55.64 | \_\_\_ | \_\_\_ |
| **STE24**QTY | 0.343 Å | 6.77 | 56.34 | 51.28 | 16.60 |
| Ste24p[M4GGS2](https://www.uniprot.org/uniprotkb/M4GGS2/entry) | \_\_\_ | 8.43 | 53.28 | \_\_\_ | \_\_\_ |
| Ste24pQTY | 0.266 Å | 8.40 | 53.47 | 49.28 | 7.38 |