

REPORT OF QTY/NTY DESIGN

1. Job information:

Job/Protein Name: P04001

User: siqipian2008@outlook.com

Designing code: QTY

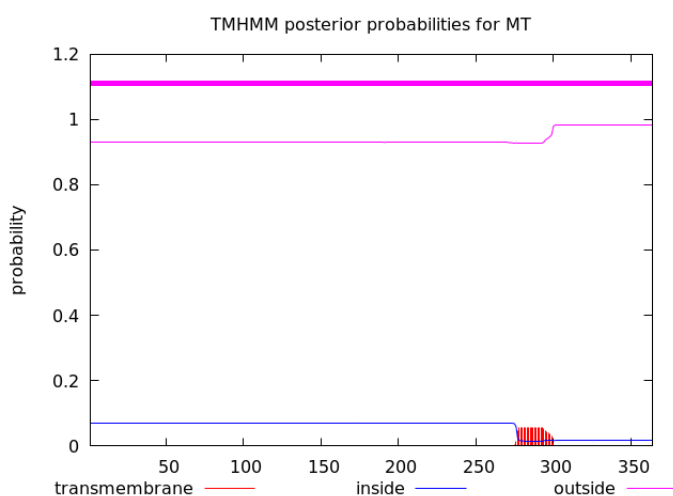
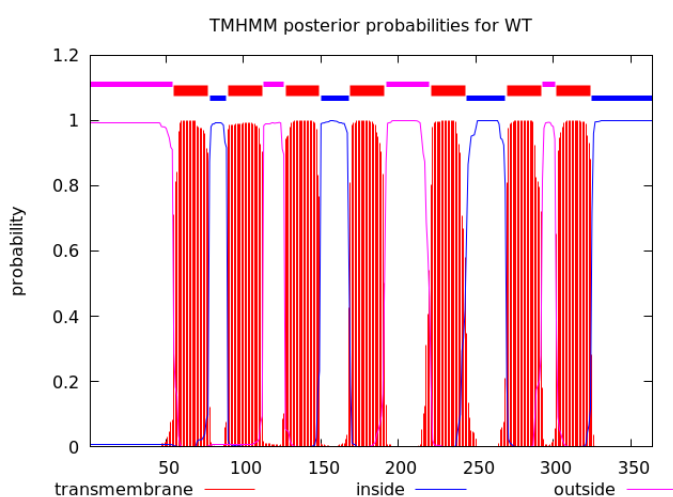
Length of protein sequence: 364

Number of modified TM regions: 7

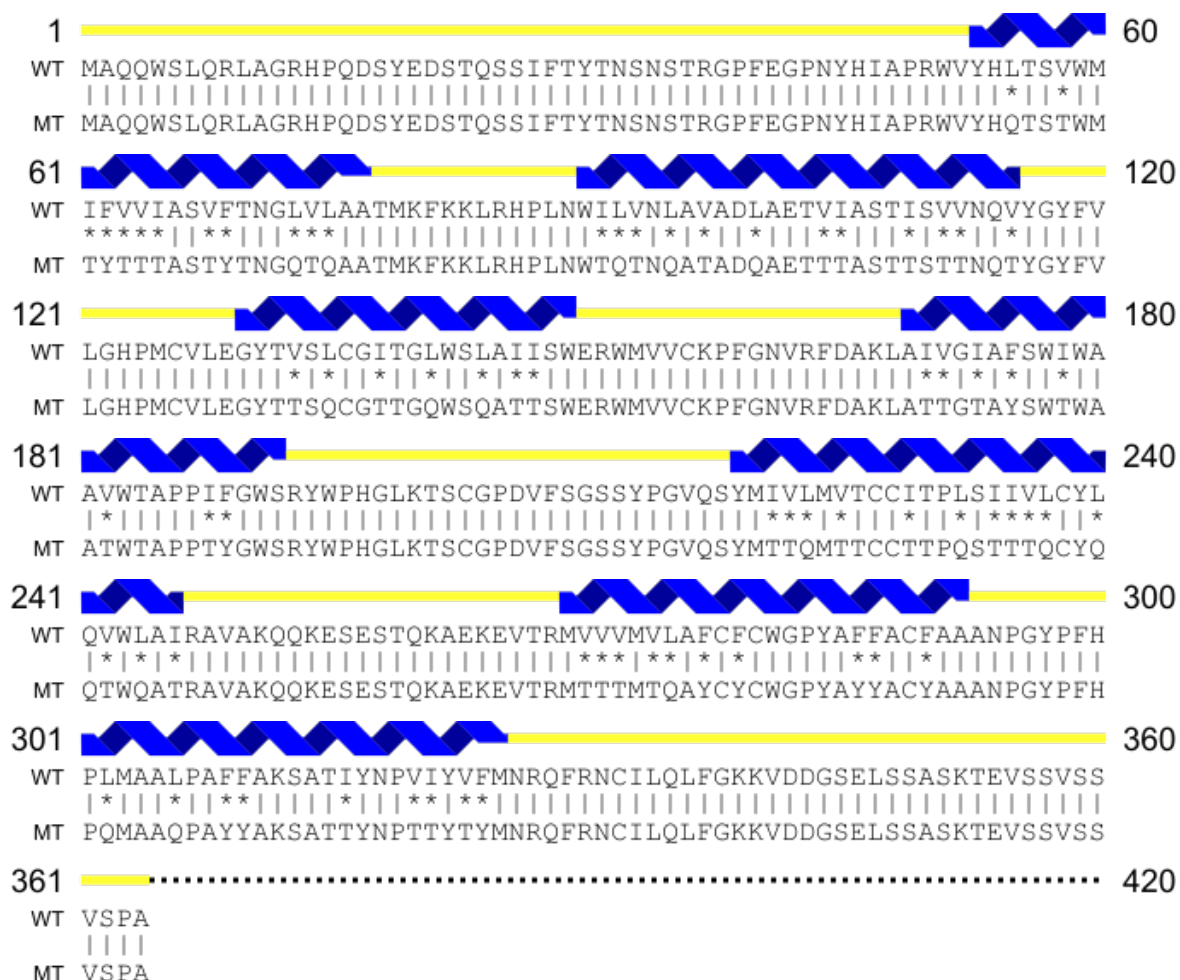
2. Comparison of general characteristics:

Type	pI	MW (kDa)	Hydrophobicity	Mutation rate (TM, %)	Mutation rate (%)
WT	8.90	40.5844	0.3904	/	/
MT	8.82	40.8492	-0.6801	41.86	19.78

3. Comparison of TM prediction:



5. Detailed comparison of TM regions:

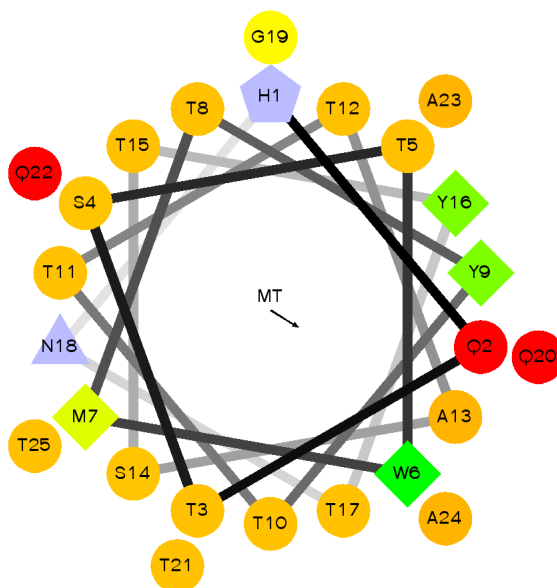
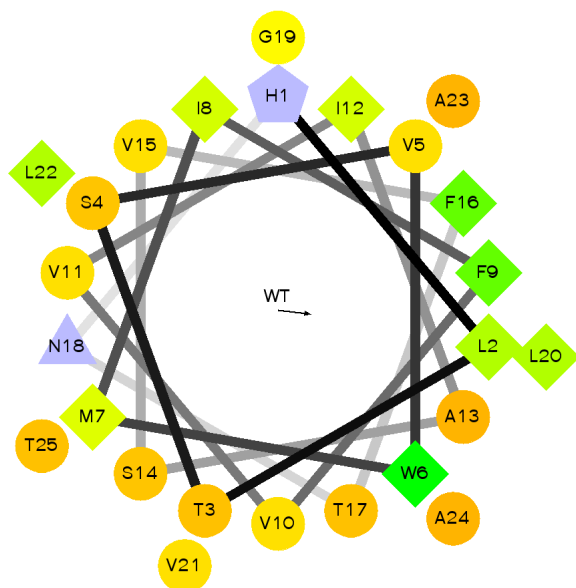


TM1

AA sequence comparison:

TM1-wt: HLTSVWMIFVVIASVFTNGLVLAAT
 |*|*|*****|**|***|
 TM1-mt: HQTSTWMTYTTTASTYTNGQTQAAT

Alpha-helix prediction comparison:

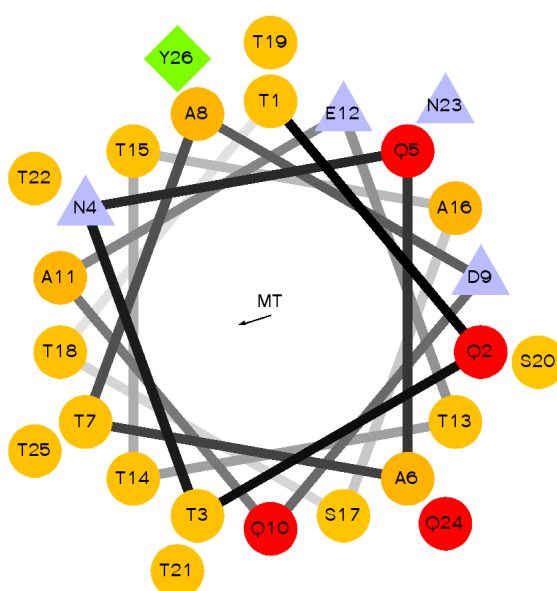
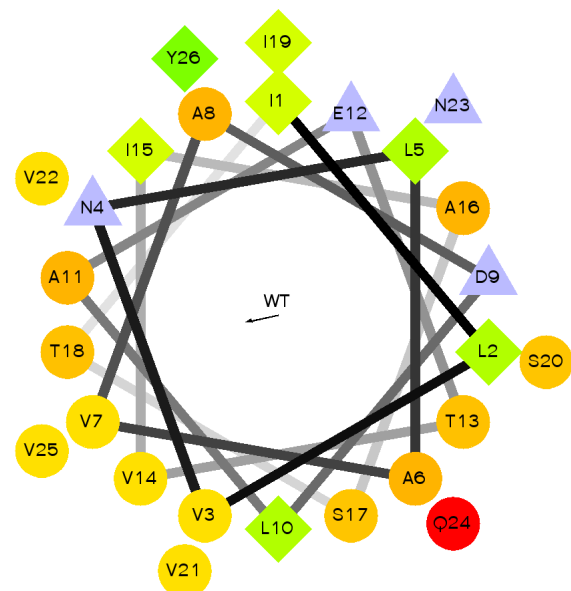
[illegible]**TM2**

AA sequence comparison:

TM2-wt : ILVNLAVADLAETVIASTISVVNQVY
***|*|*|*|**|*|**|*|
TM2-mt : TQTNOATADOAETTTASTTSTTNQTY

Alpha-helix prediction comparison:

TM2-wt: HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
| | | | | | | | | | | | | | | | | * | | | | | | | |
TM2-mt: HHHHHHHHHHHHHHHHHHHHHCHHHHHHHHHCC



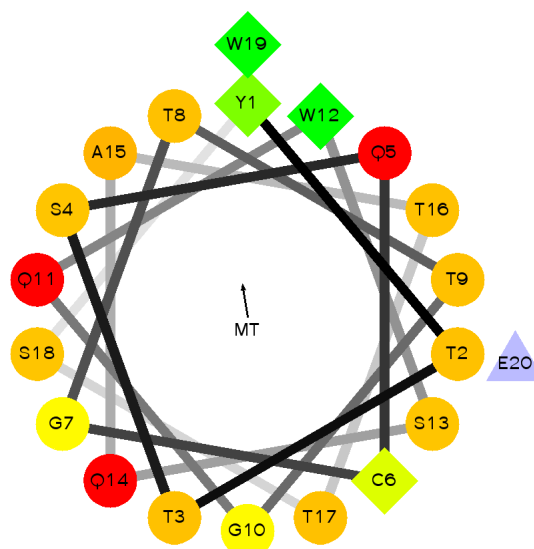
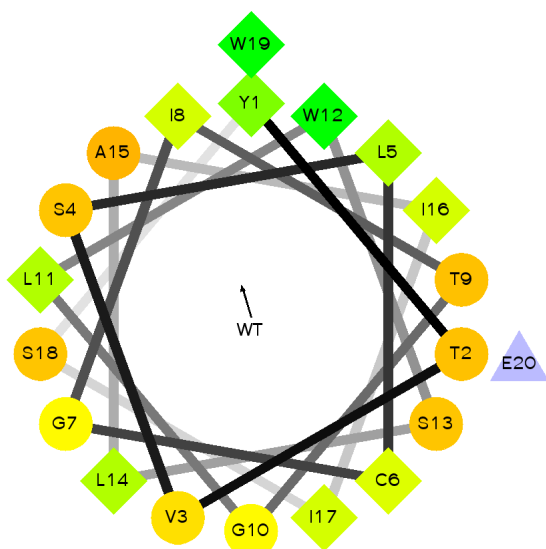
TM3

AA sequence comparison:

TM3-wt: YTVSLCGITGLWSLAIIISWE
 ||*||*||*||*||*||*||*||
 TM3-mt: YTTSQCGTTGOWSQATTSE

Alpha-helix prediction comparison:

TM3-wt: HHHHHHHHHHHHHHHHHHHHHHHHHH
| | | | | | | | | | | | | |
TM3-mt: HHHHHHHHHHHHHHHHHHHHHHHHHH

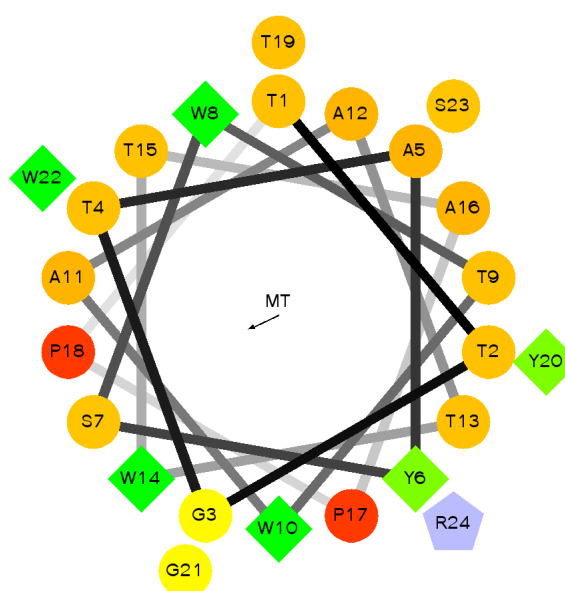
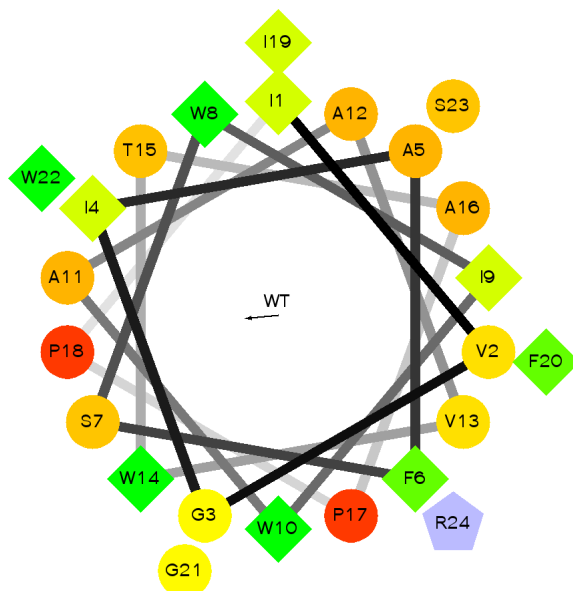
**TM4**

AA sequence comparison:

TM4-wt: IVGIAF^WSWIWA^AVW^TAP^PIFG^WSR
 ** * * * * * **
 TM4-mt: TTGTAYS^WTWA^ATWT^AP^PTYG^WSR

Alpha-helix prediction comparison:

TM4-wt: HHHHHHHHHHHHHHHHHHCCCEEEEEE
 |||||
 TM4-mt: HHHHHHHHHHHHHHHHHHCCCEEECCC

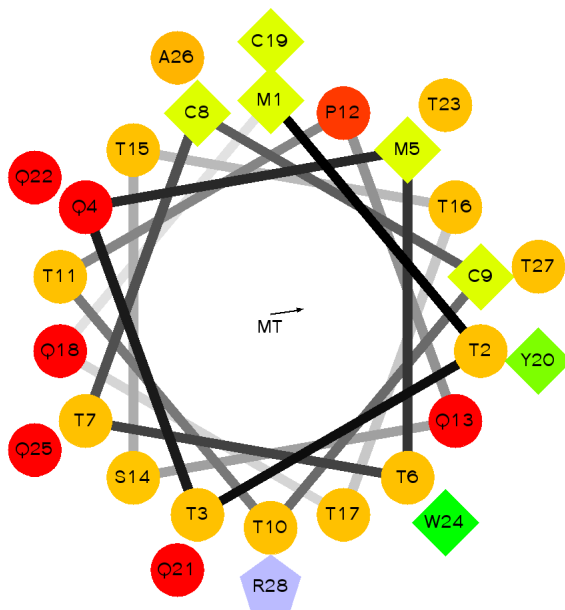
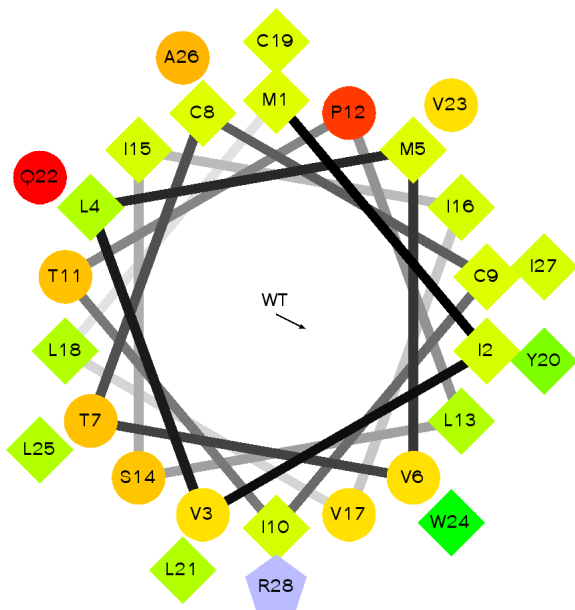


TM5

AA sequence comparison:

TM5-wt : MIVLMVTCCITPLSIIVLCYLVWLAIK
|***|*||*|*|*****|*|*|*|*|
TM5-mt : MTTQMTTCCTTPQSSTTQCYYQTWQATR

Alpha-helix prediction comparison:

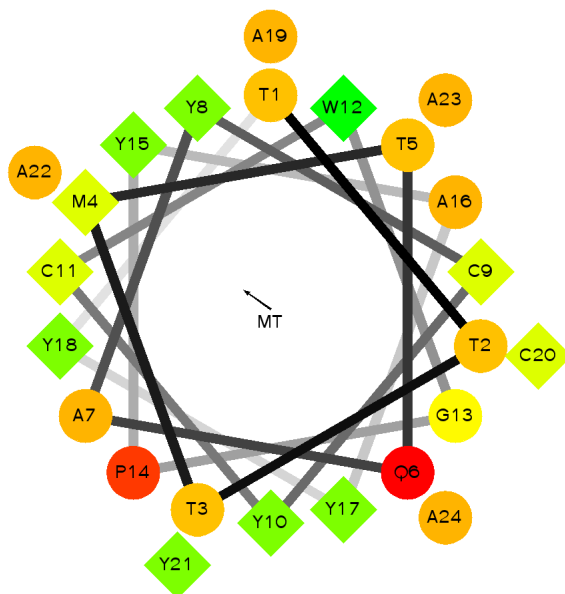
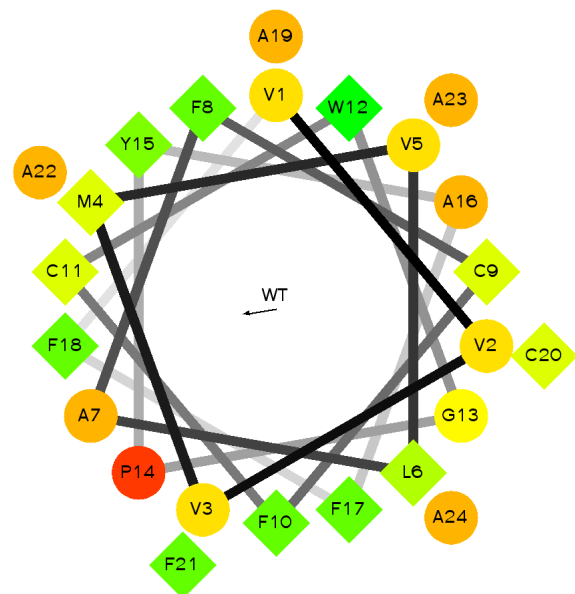
[illegible]**TM6**

AA sequence comparison:

TM6-wt : VVVMVLAF^CFCWGPYAFFACFAAA
***|**|*|*|||**|*|
TM6-mt : TTTMTQAYCYCWGPYAYYACYAAA

Alpha-helix prediction comparison:

TM6-wt: HHHHHHHHHHHHCCHHHHHHHHHHHH
 TM6-mt: HHHHHHHHHHHHCCHHHHHHHHHHHH



TM7

AA sequence comparison:

TM7-wt: LMAALPAFFAKSATIYNPVIYVFMN
 |||||**|||*|||**||*
 TM7-mt: QMAAQPAYYAKSATTYNPTTYTYMN

Alpha-helix prediction comparison:

TM7-wt: HHHHHHHHHHHHHHCCHCHHHHHHHHC
 |||||*|||
 TM7-mt: HHHHHHHHHHHHHHCCCCHHHHHHHHHC

