REPORT OF QTY/NTY DESIGN

1. Job information:

Job/Protein Name: P03999

User: siqipan2008@outlook.com

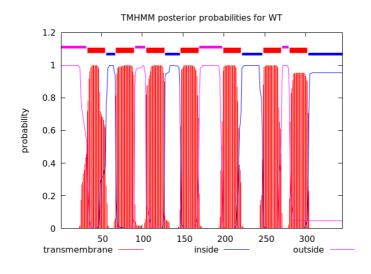
Designing code: QTY

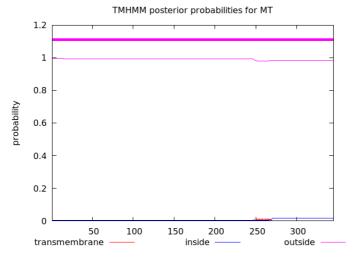
Length of protein sequence: 345 Number of modified TM regions: 7

2. Comparison of general characteristics:

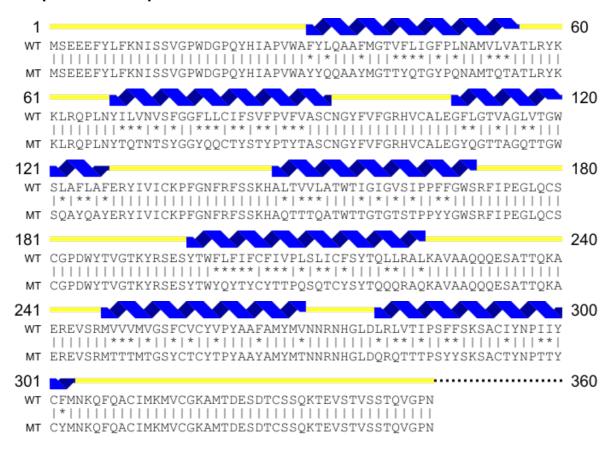
Type	pI	MW (kDa)	Hydrophobicity	Mutation rate (TM, %)	Mutation rate (%)
WT	8.75	38.7194	0.4881	/	/
MT	8.66	39.3045	-0.7498	46.51	23.19

3. Comparison of TM prediction:





4. Comparison of sequences:

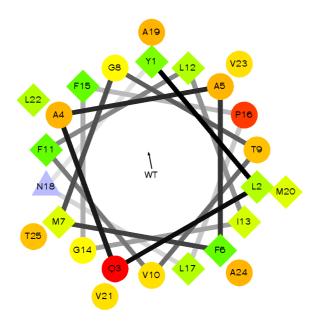


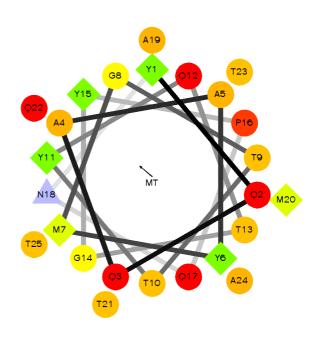
5. Detailed comparison of TM regions:

TM1

AA sequence comparison:

Alpha-helix prediction comparison:

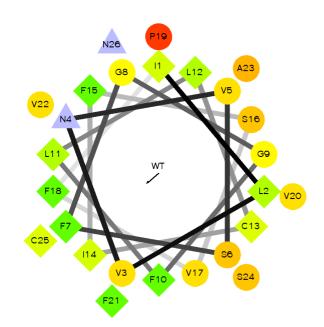


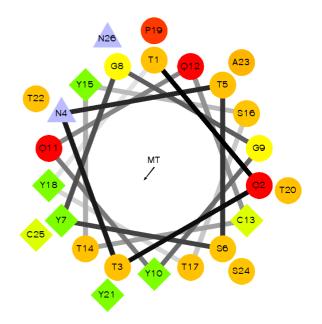


AA sequence comparison:

TM2-wt: ILVNVSFGGFLLCIFSVFPVFVASCN
|*|||**||***|
TM2-mt: TQTNTSYGGYQQCTYSTYPTYTASCN

Alpha-helix prediction comparison:



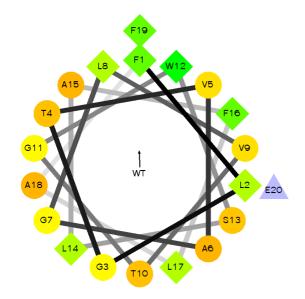


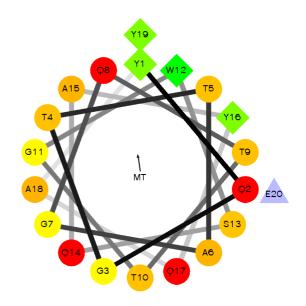
TM3

AA sequence comparison:

TM3-wt: FLGTVAGLVTGWSLAFLAFE
||*||||||*|**|
TM3-mt: YQGTTAGQTTGWSQAYQAYE

Alpha-helix prediction comparison:

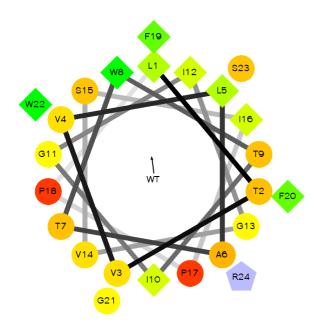


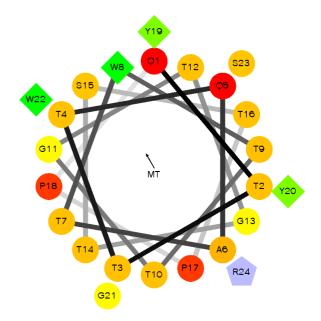


AA sequence comparison:

TM4-wt: LTVVLATWTIGIGVSIPPFFGWSR * | * * * * | | | * | * | * | | | * | | | | TM4-mt: QTTTQATWTTGTGTSTPPYYGWSR

Alpha-helix prediction comparison:

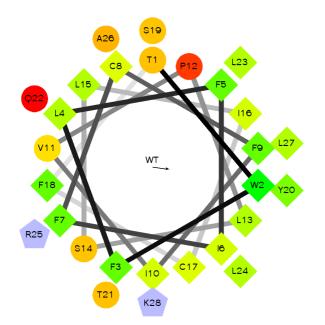


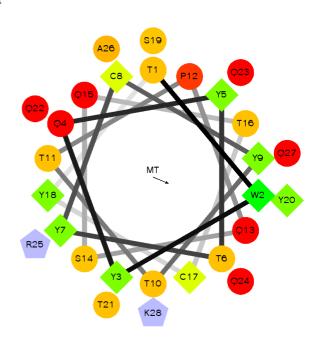


TM5

AA sequence comparison:

Alpha-helix prediction comparison:



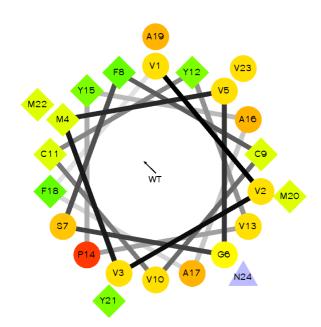


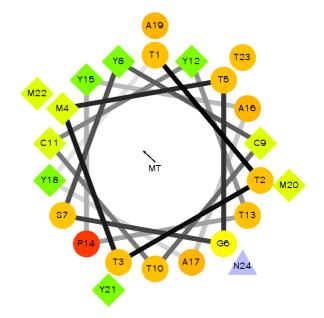
TM6

AA sequence comparison:

TM6-wt: VVVMVGSFCVCYVPYAAFAMYMVN
***|*||*||*||||*|
TM6-mt: TTTMTGSYCTCYTPYAAYAMYMTN

Alpha-helix prediction comparison:





TM7

AA sequence comparison:

Alpha-helix prediction comparison:

