

# REPORT OF QTY/NTY DESIGN

## 1. Job information:

Job/Protein Name: P04000

User: siqipian2008@outlook.com

Designing code: QTY

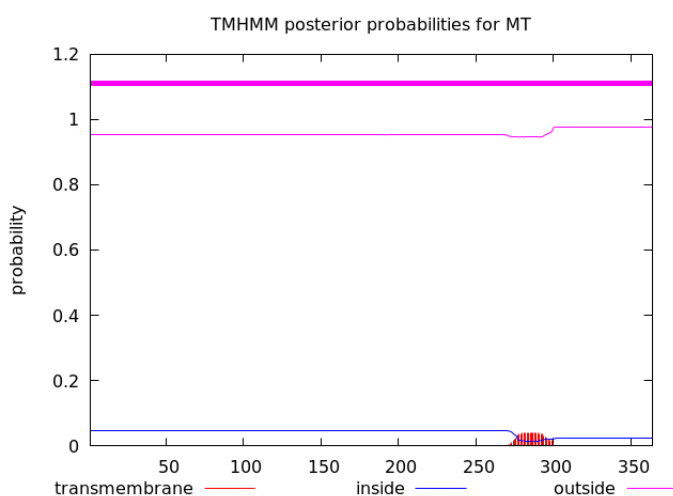
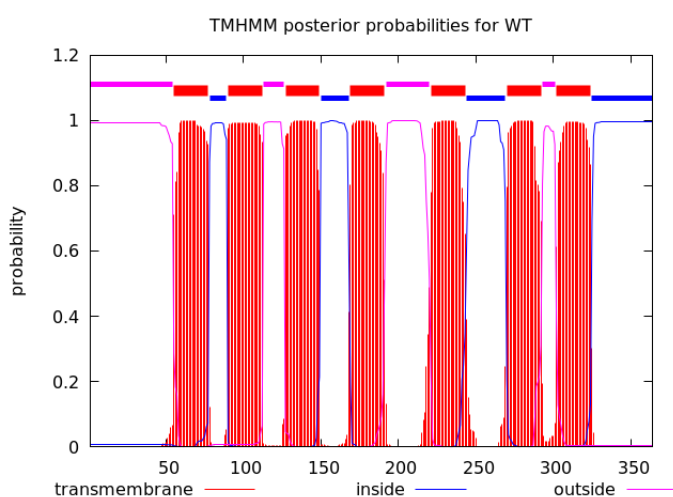
Length of protein sequence: 364

Number of modified TM regions: 7

## 2. Comparison of general characteristics:

Type	pI	MW (kDa)	Hydrophobicity	Mutation rate (TM, %)	Mutation rate (%)
WT	8.89	40.5744	0.3753	/	/
MT	8.83	40.7642	-0.6543	40.12	18.96

## 3. Comparison of TM prediction:



## 5. Detailed comparison of TM regions:

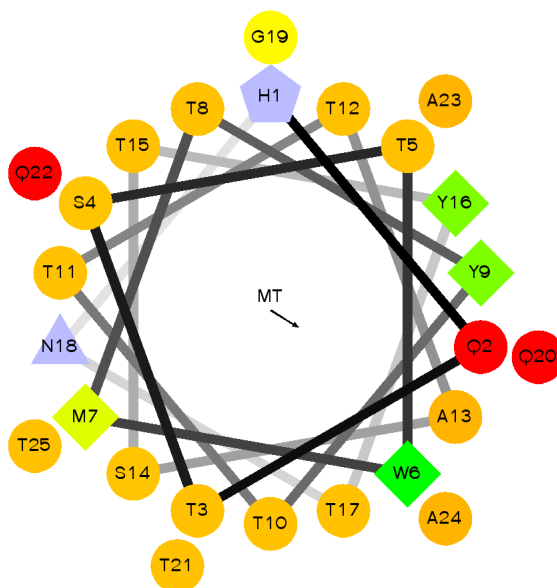
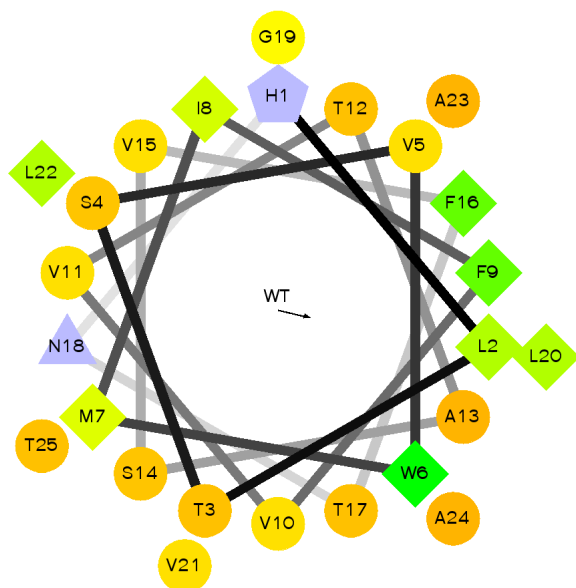
## 5. Detailed comparison of TM regions:

**TM1**

### AA sequence comparison:

TM1-wt: HLTSVWMIFVVTASVFTNGLVLAAT  
 | \* | \* | \* \* \* | | \* \* | | \* \* \* | |  
 TM1-mt: HQTSTWMTYTTTASTYTNGQTQAAT

### Alpha-helix prediction comparison:

[illegible]

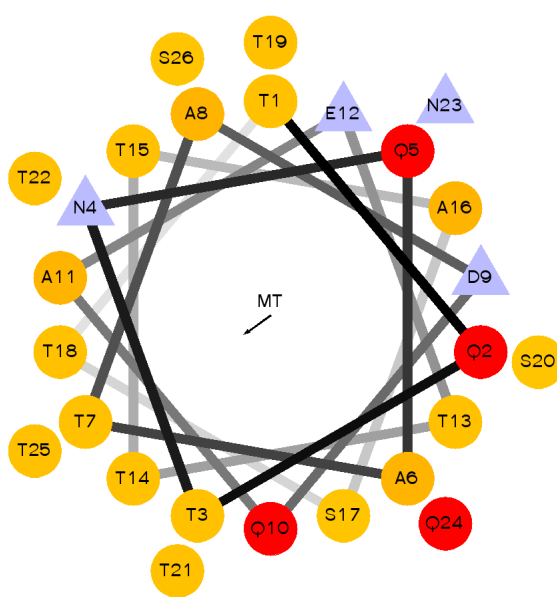
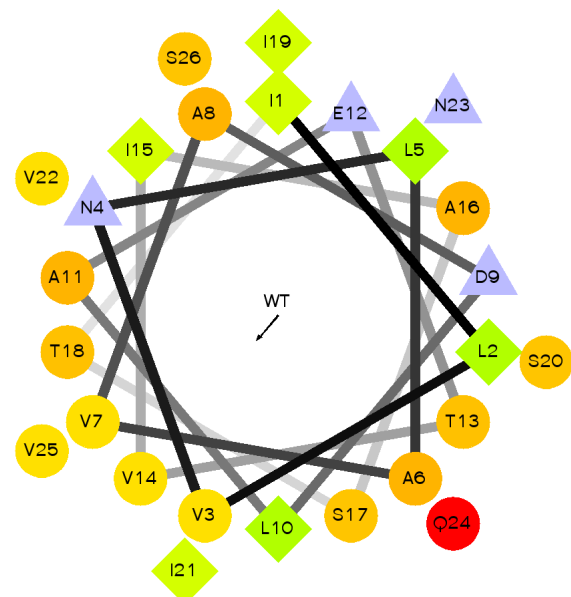
## TM2

### AA sequence comparison:

TM2-wt : ILVNLAVADLAETVIASTISIVNOVS  
\*\*\*|\*|\*|\*|\*\*||\*|\*\*|\*|  
TM2-mt : TQTNQATADOAETTTASTTSTTNOTS

### Alpha-helix prediction comparison:

TM2-wt : HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHC  
| | | | | | | | | | \* \* | | | | |  
TM2-mt : HHHHHHHHHHHHHHHHHHCCHHHHHHHHHCC



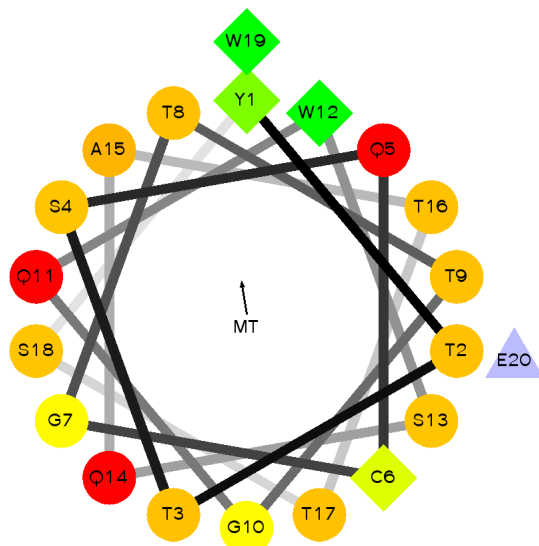
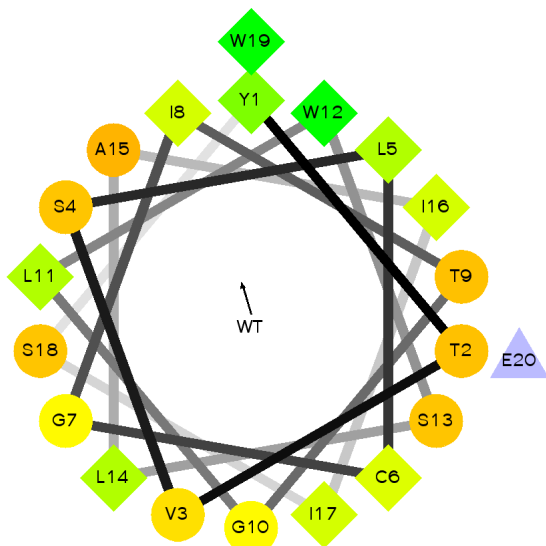
## TM3

### AA sequence comparison:

TM3-wt: YTVSLCGITGLWSLAIISWE  
 |||\*||\*||\*||\*||\*||\*||\*||\*||  
 TM3-mt: YTTSQCGTTGQWSQATTSE

### Alpha-helix prediction comparison:

TM3-wt: HHHHHHHHHHHHHHHHHHHHHHHHH  
 \*|||  
 TM3-mt: CHHHHHHHHHHHHHHHHHHHHHHHH



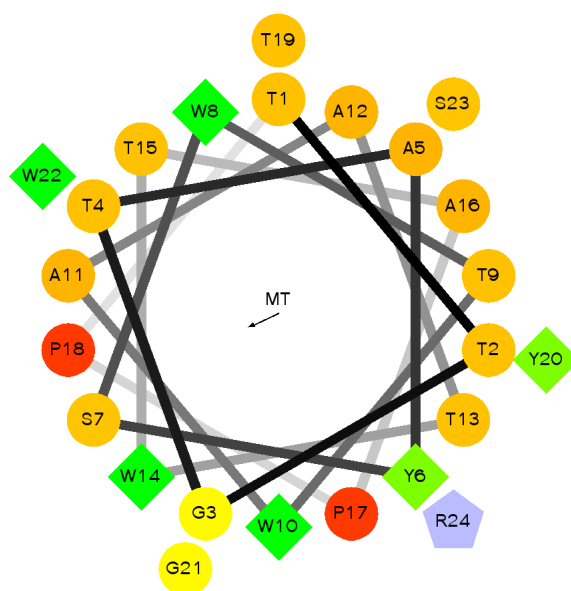
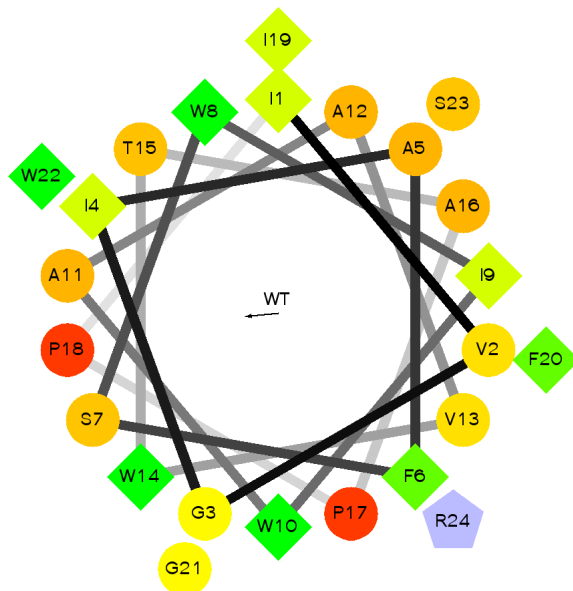
## TM4

### AA sequence comparison:

TM4-wt: IVGIAFSWIWA AVWTAPPIFGWSR  
 \*\*||\*||\*||\*||\*||\*||\*||\*||\*||  
 TM4-mt: TTGTAYSWTWAATWTAPPTYGWSR

### Alpha-helix prediction comparison:

TM4-wt: HHHHHHHHHHHHHHHHHCCCEEEEE  
 |||||  
 TM4-mt: HHHHHHHHHHHHHHHHHCCCEEEEC



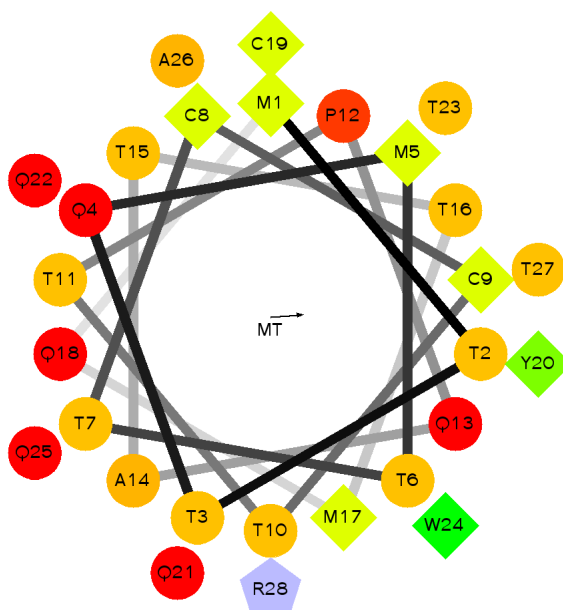
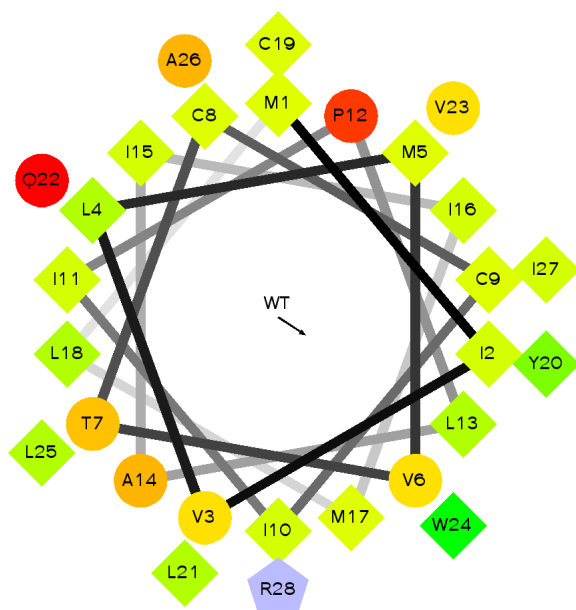
**TM5**

### AA sequence comparison:

TM5-wt : MIVLMVTCCIIPLAIIIMLCYLVWLAIK  
| \* \* \* | \* | | \* \* | \* | \* \* | \* | | \* | \* | \* | \*  
TM5-mt : MTTQMTTCCTTPQATTMQCYOOTWQATR

### Alpha-helix prediction comparison:

TM5-wt : HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH  
| | | | |  
TM5-mt : HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

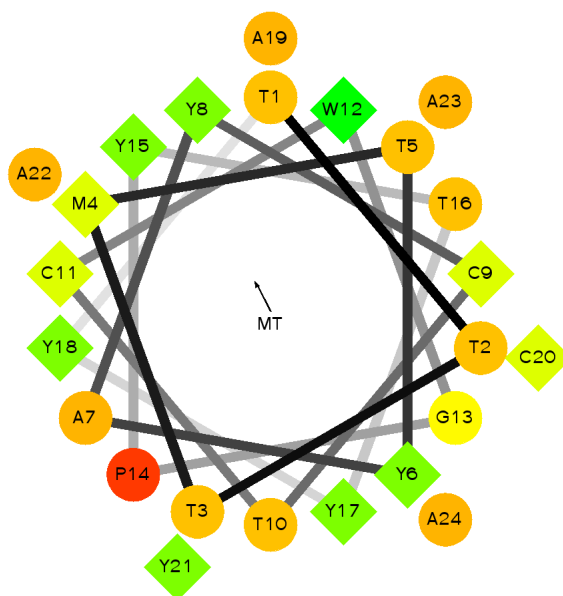
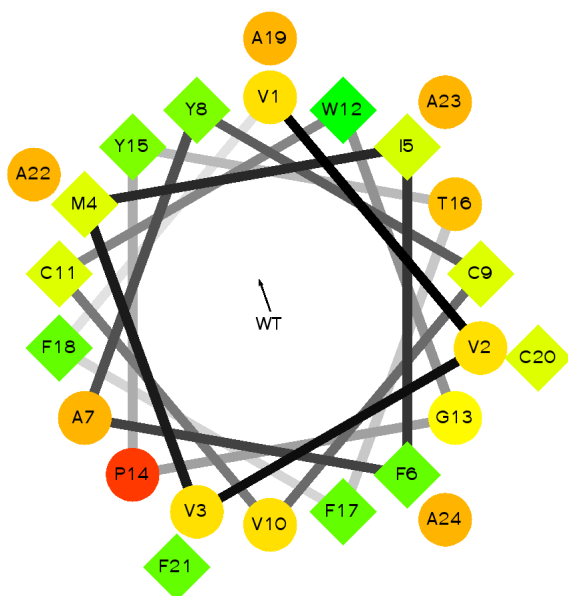
**TM6**

### AA sequence comparison:

TM6-wt: VVVMIFAYCVCWGPYTFACFAAA  
 \*\*\*|\*\*|||\*|||\*\*|\*|||  
 TM6-mt: TTTMTYAYCTCWGPYTYACAAAA

### Alpha-helix prediction comparison:

TM6-wt: HHHHHHHHHHHHHHCCHHHHHHHHHHHHH  
 TM6-mt: HHHHHHHHHHHHHHCCHHHHHHHHHHHHH



**TM7**

**AA sequence comparison:**

TM7-wt: LMAALPAYFAKSATIYNPVIYVFMN  
\*|||\*|||\*|||\*|||\*\*|||  
TM7-mt: QMAAQPAYYAKSATTYNPTTYTYMN

### Alpha-helix prediction comparison:

TM7-wt: HHHHHHHHHHHHHHHHCCHCHHHHHHHHC  
 |||||  
 TM7-mt: HHHHHHHHHHHHHHHHCCCCHHHHHHHHHC

