

REPORT OF QTY/NTY DESIGN

1. Job information:

Job/Protein Name: Q9H1Y3

User: siqipian2008@outlook.com

Designing code: QTY

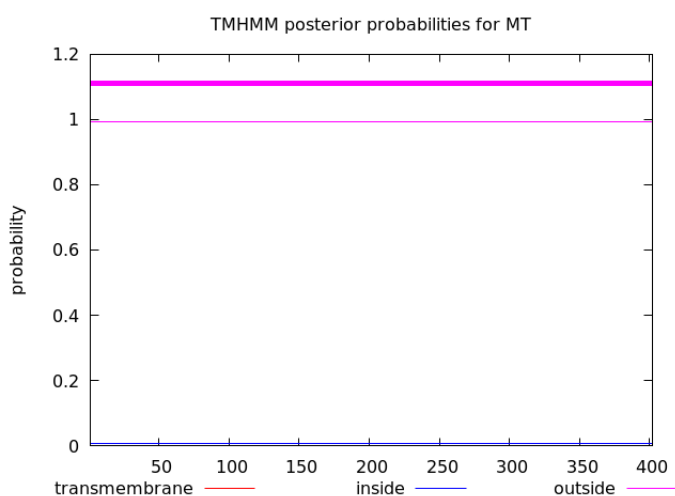
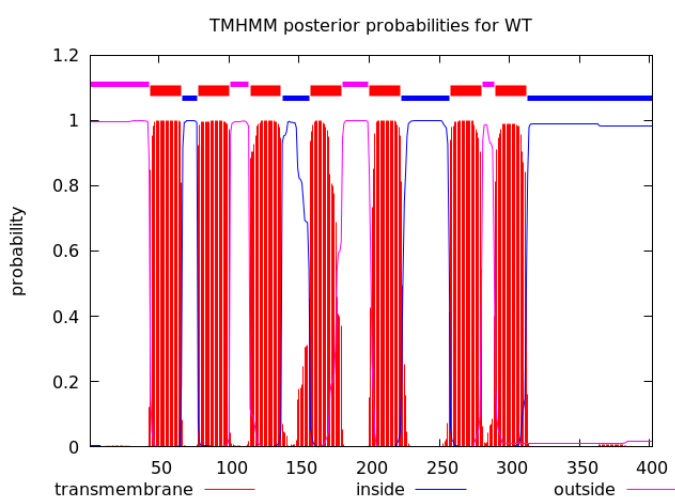
Length of protein sequence: 402

Number of modified TM regions: 7

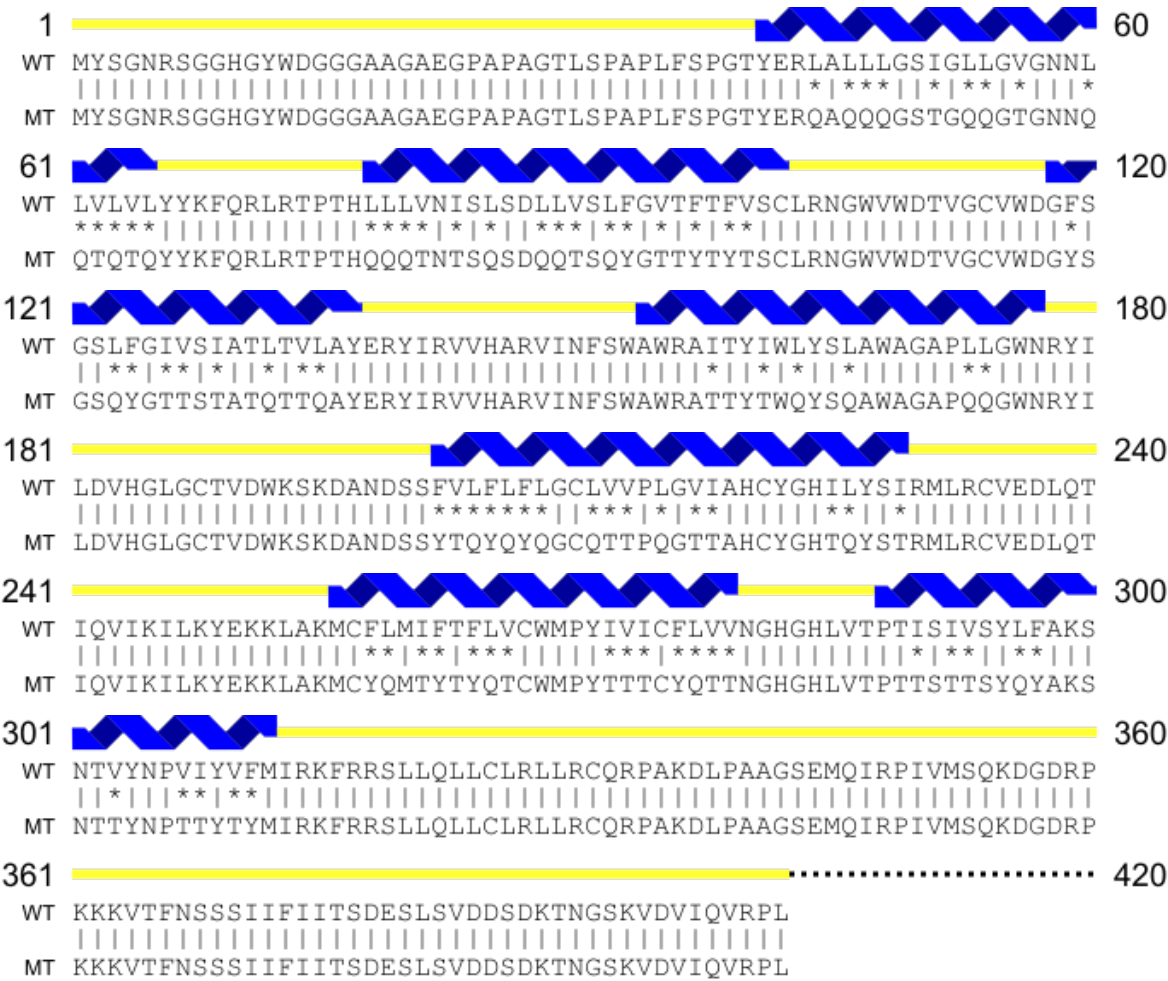
2. Comparison of general characteristics:

Type	pI	MW (kDa)	Hydrophobicity	Mutation rate (TM, %)	Mutation rate (%)
WT	9.29	44.8729	0.4572	/	/
MT	9.18	45.4666	-0.7529	49.12	20.90

3. Comparison of TM prediction:



4. Comparison of sequences:



5. Detailed comparison of TM regions:

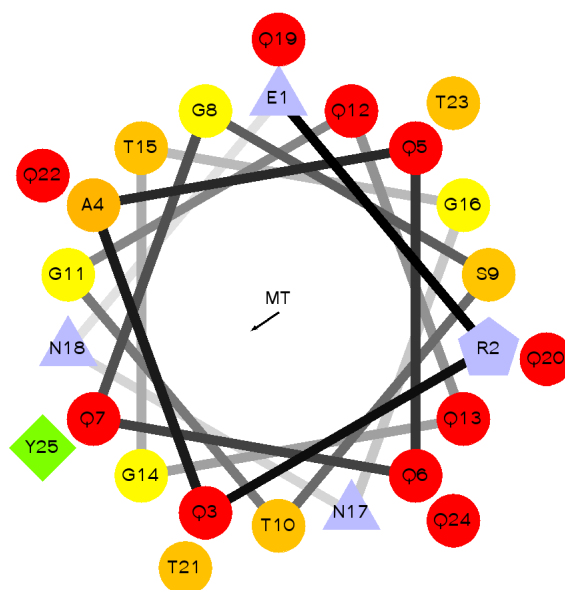
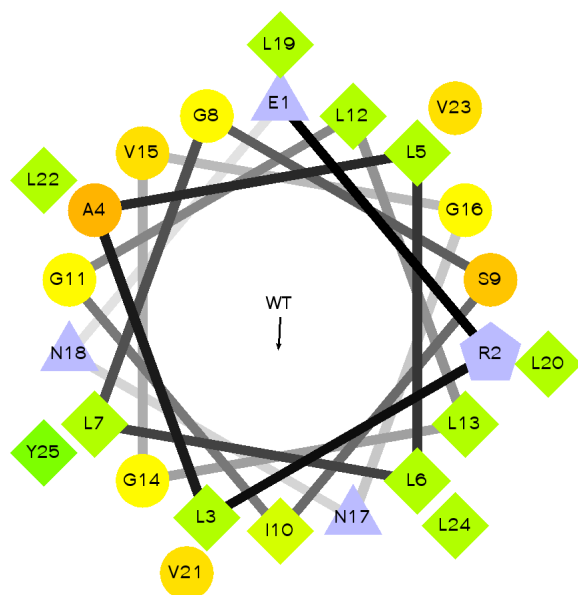
TM1

AA sequence comparison:

TM1-wt: ERLALLLGSIGLLGVGNLLVLVLY
| | * | * * * | * | * * | * | | * * * * * |
TM1-mt: ERAAQQQGSGTGOQGTGNNQQTOTQY

Alpha-helix prediction comparison:

TM1-wt: HHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
| | | | |
TM1-mt: HHHHHHHHHHHHHHHHHHHHHHHHHHHHH

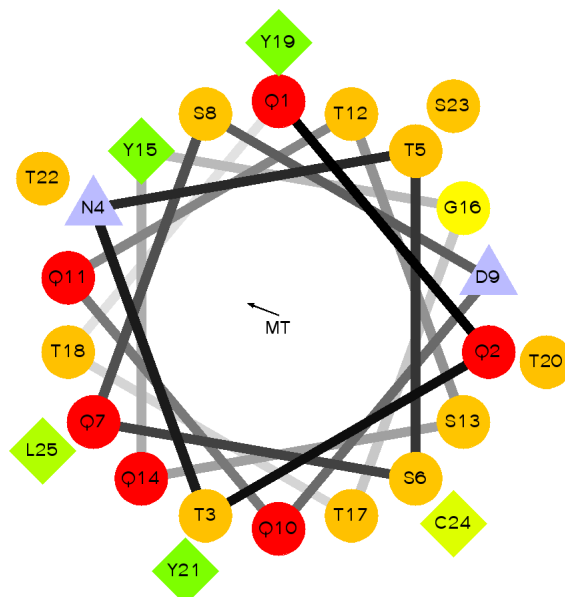
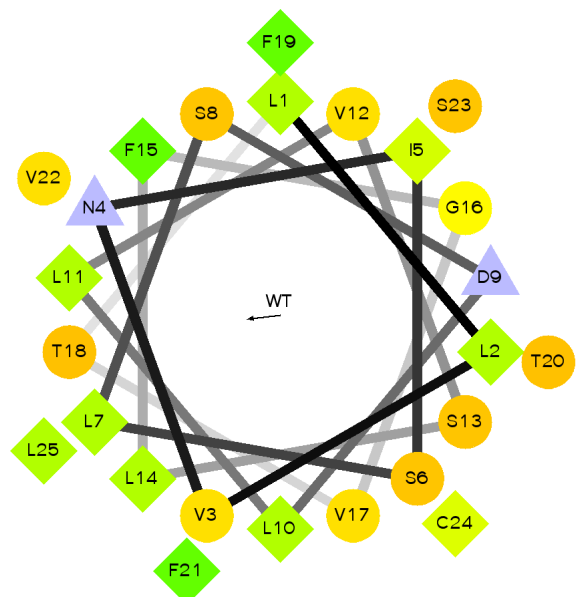
**TM2**

AA sequence comparison:

TM2-wt: L L V N I S L S D L L V S L F G V T F T F V S C L
 *** | * * | *** | ** | * * | ** |
 TM2-mt: Q Q T N T S Q S D Q Q T S O Y G T T Y T Y T S C L

Alpha-helix prediction comparison:

TM2-wt: HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
 |||
 TM2-mt: HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH



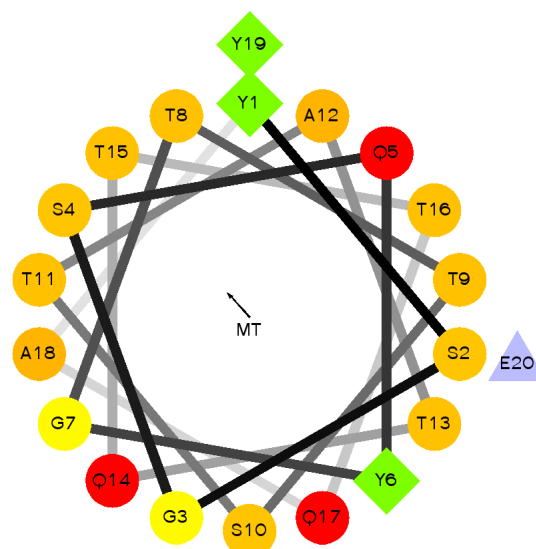
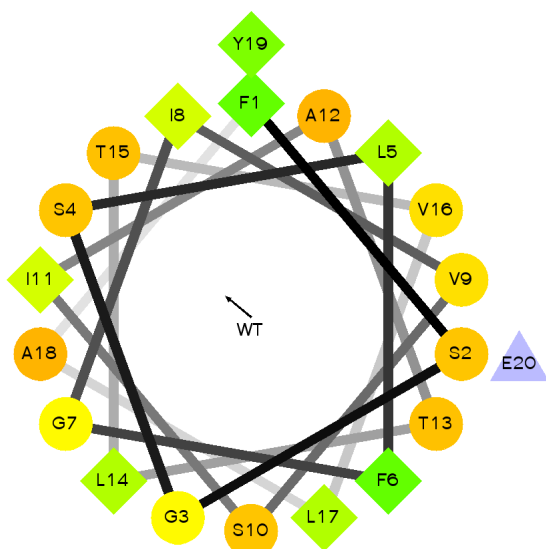
TM3

AA sequence comparison:

TM3-wt: FSGSLFGIVSIATLTVLAYE
*|||**||*||*||
TM3-mt: YSGSQYGTSTATTQTQAYE

Alpha-helix prediction comparison:

TM3-wt: HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
* |||||
TM3-mt: CHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH



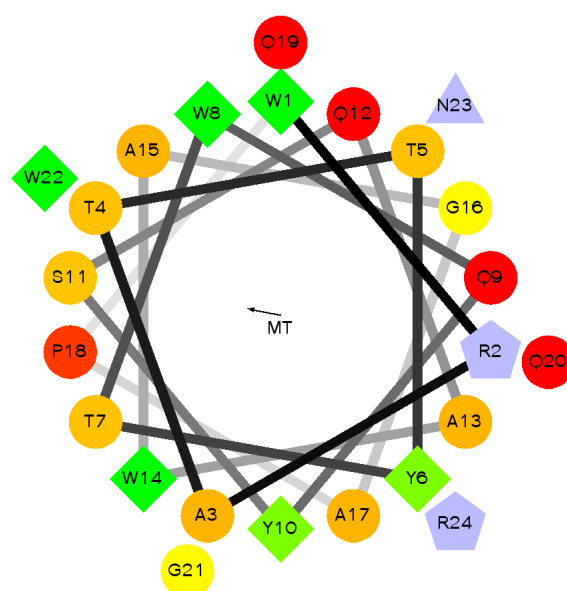
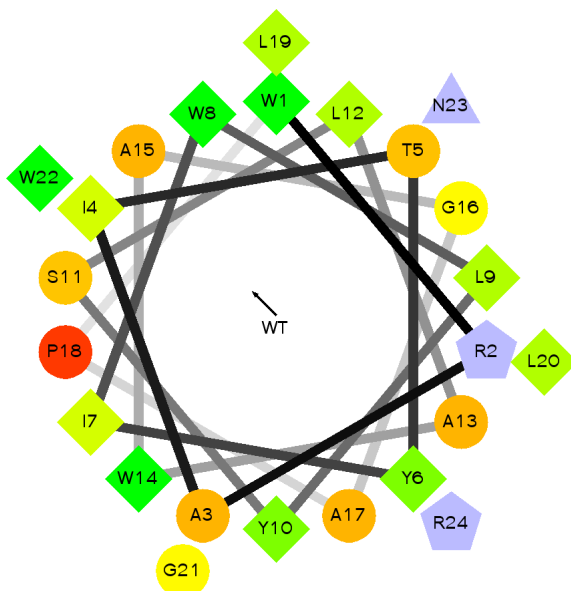
TM4

AA sequence comparison:

TM4-wt: WRAITYIWLYSLAWAGAPLLGWNR
 |||*||*||*||*|||**|||
 TM4-mt: WRATTYTWOYSOAWAGAPOOGWNR

Alpha-helix prediction comparison:

TM4-wt: HHHHHHHHHHHHHHHHHHCCCEEEEEEE
 TM4-mt: HHHHHHHHHHHHHHHHHHCCCEEEEEEE



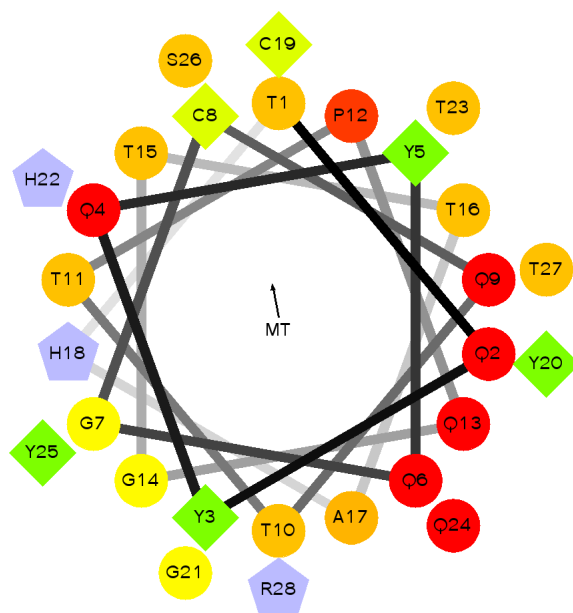
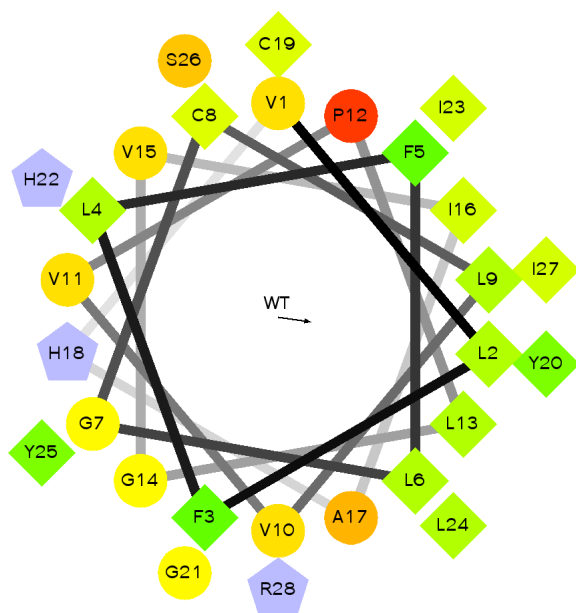
TM5

AA sequence comparison:

TM5-wt : VLFLFLGCLVPLGVIAHCYGHILYSIR
 *****|***|*|**|||**|*
 TM5-mt : TQYQYQGCQTTPQGTTHCYGHTQYSTR

Alpha-helix prediction comparison:

TM5-wt : HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
| | | | |
TM5-mt : HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

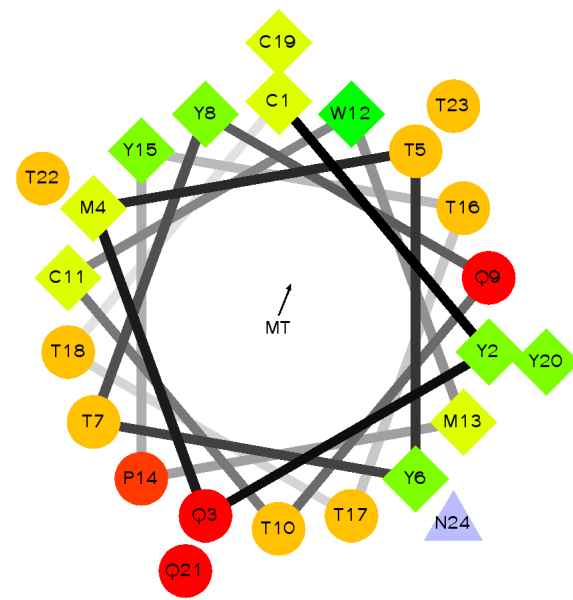
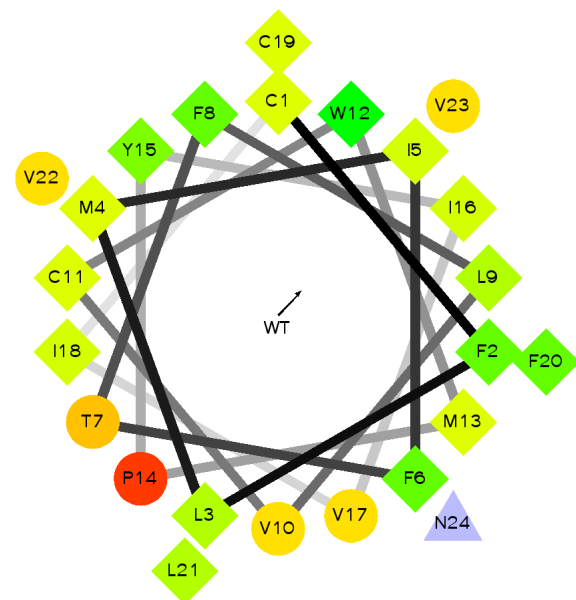
**TM6**

AA sequence comparison:

TM6-wt: CFLMIFFTLVCWMPYIVICFLVNV
 TM6-mt: CYQMTYTYOTCWMPYTTTCYQTTN

Alpha-helix prediction comparison:

TM6-wt: HHHHHHHHHHHHCC'HHHHHHHHHHHH
 |||||
 TM6-mt: HHHHHHHHHHHHCC'HHHHHHHHHHHH



TM7

AA sequence comparison:

TM7-wt: TISIVSYLFAKSNTVYNPVIYVFMI
 |*|**||**|||*|||**||**||
 TM7-mt: TTSTTSYQYAKSNTTYNPTTYTYMI

Alpha-helix prediction comparison:

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

