

REPORT OF QTY/NTY DESIGN

1. Job information:

Job/Protein Name: Q9UHM6

User: siqipian2008@outlook.com

Designing code: QTY

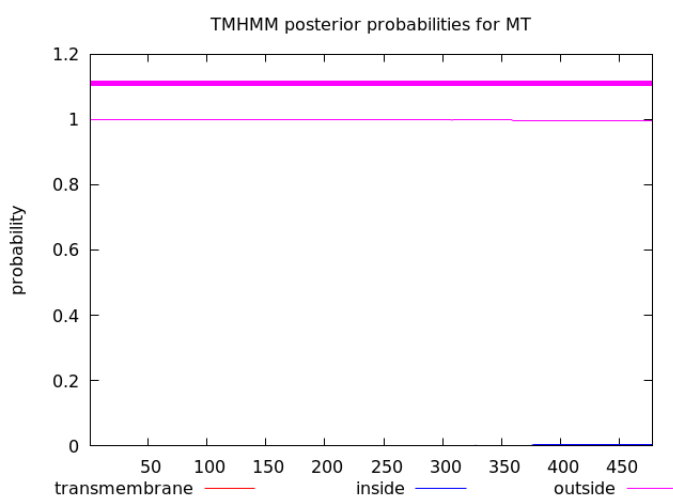
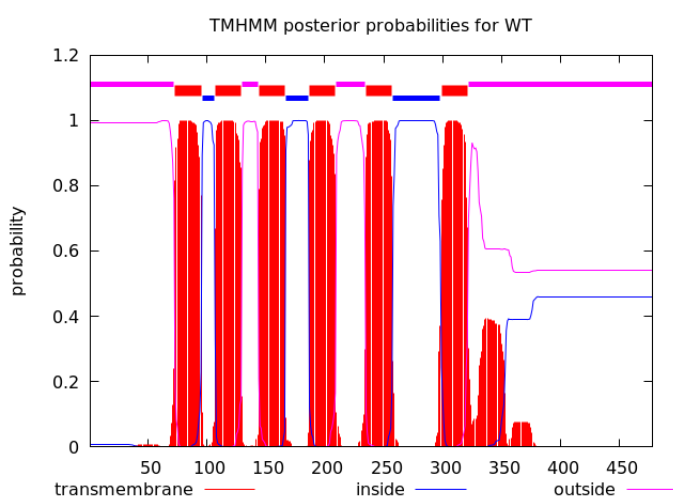
Length of protein sequence: 478

Number of modified TM regions: 7

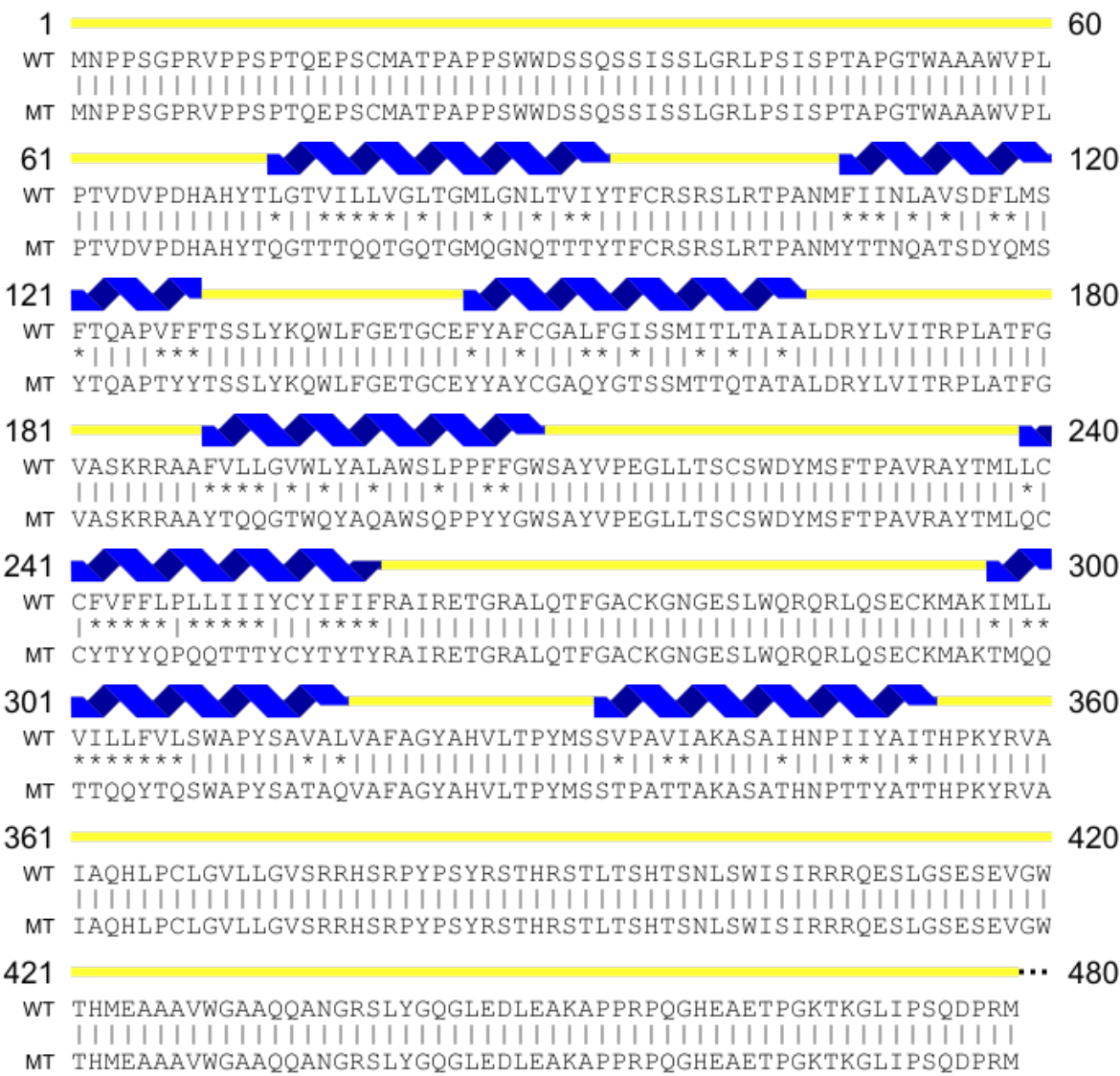
2. Comparison of general characteristics:

Type	pI	MW (kDa)	Hydrophobicity	Mutation rate (TM, %)	Mutation rate (%)
WT	9.35	52.6353	0.2391	/	/
MT	9.19	53.0782	-0.6284	50.34	15.48

3. Comparison of TM prediction:



4. Comparison of sequences:



5. Detailed comparison of TM regions:

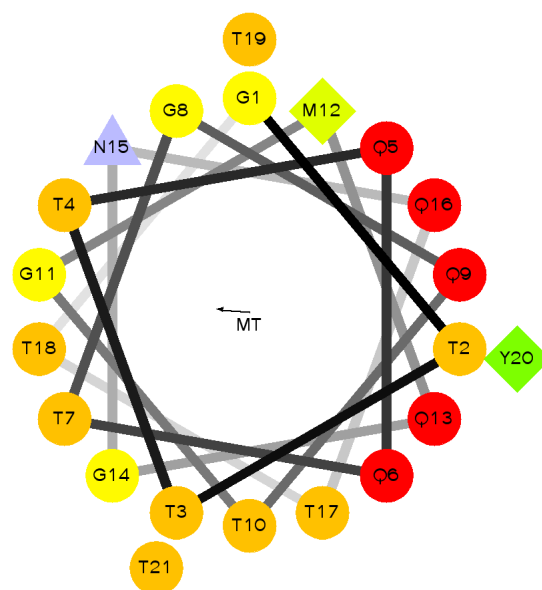
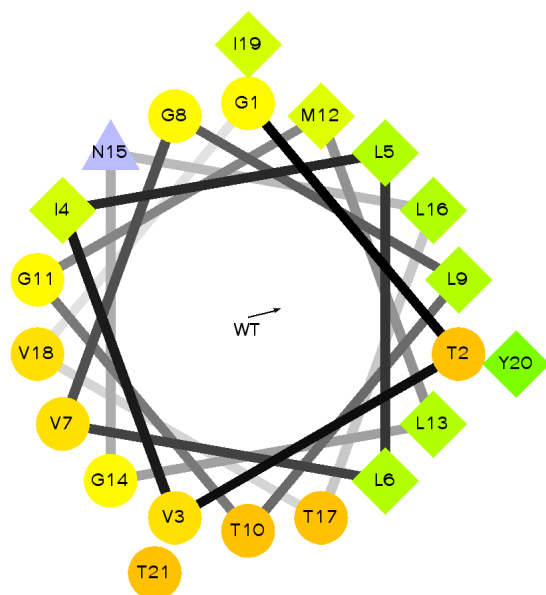
TM1

AA sequence comparison:

TM1-wt: GTVILLVGLTGMLGNLTVIYT
 |||*****|*|||*||**||
 TM1-mt: GTTTQQTGQTGMQGNQTTTYT

Alpha-helix prediction comparison:

TM1-wt: HHHHHHHHHHHHHHHHHHHHHHHHHH
| | | | | | | | | | | | | |
TM1-mt: HHHHHHHHHHHHHHHHHHHHHHHHHH



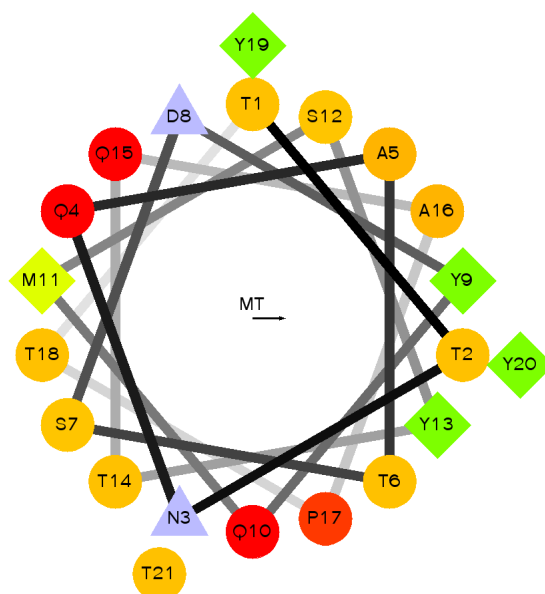
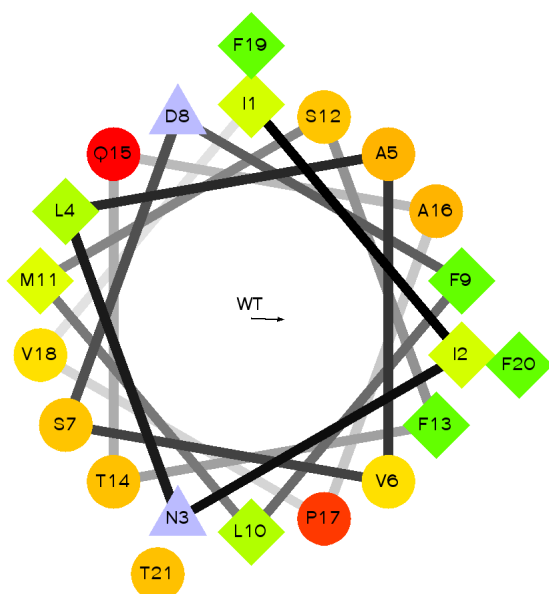
TM2

AA sequence comparison:

TM2-wt: IINLAVSDFLMSFTQAPVFFT
 |*|*||||*|||***|
 TM2-mt: TTNOATSDYQMSYTOAPTYYT

Alpha-helix prediction comparison:

TM2-wt: HHHHHHHHHHHHHHHHHHCCHHHHH
 |||||
 TM2-mt: HHHHHHHHHHHHHHHHHHCCHHHHH



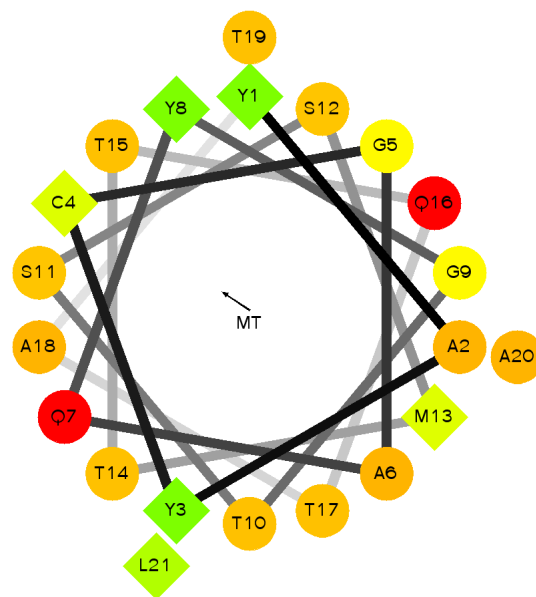
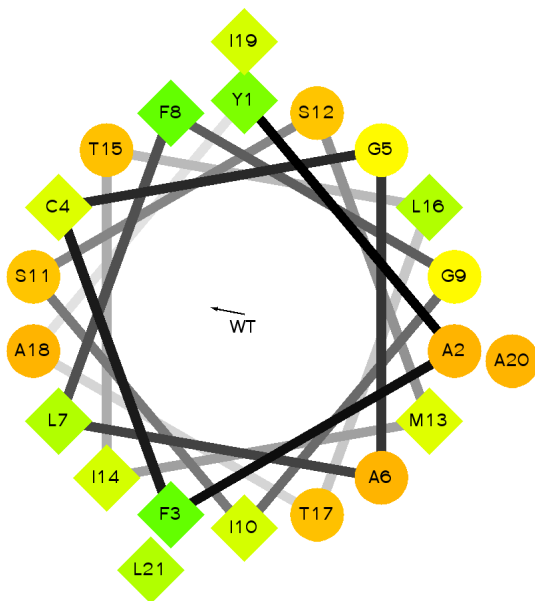
TM3

AA sequence comparison:

TM3-wt: YAFCGALFGISSMITLTAIAL
 |||*|||**|||*||*||*||
 TM3-mt: YAYCGAQYGTSSMTTQTATAL

Alpha-helix prediction comparison:

TM3-wt: HHHHHHHHHHHHHHHHHHHHHHHHHH
* | | | | | | | | | | | | | |
TM3-mt: EHHHHHHHHHHHHHHHHHHHHHHHHH



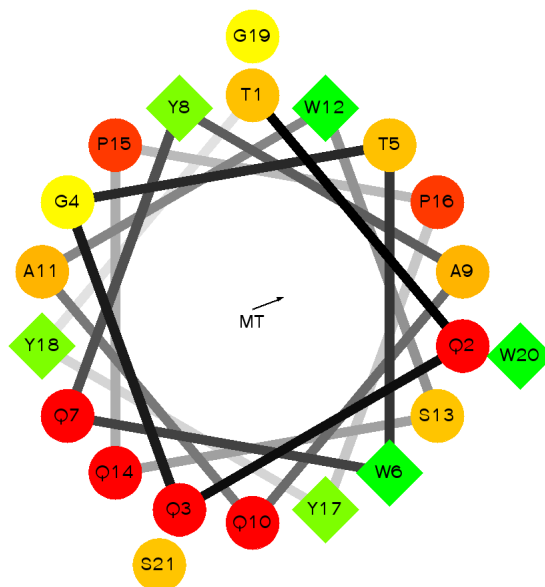
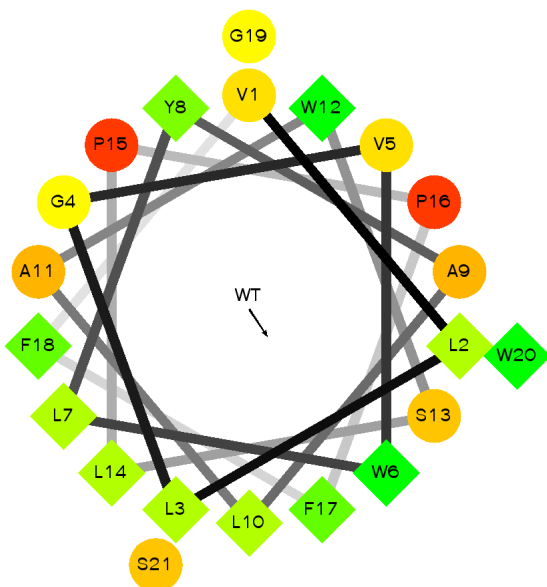
TM4

AA sequence comparison:

TM4-wt: VLLGVWLYALAWSLPPFFGWS
 ***|*|*||*|||*||**||
 TM4-mt: TOOGTWQYAAQAWSOPPPYYGWS

Alpha-helix prediction comparison:

TM4-wt: HHHHHHHHHHHHCCCCEEEC
 |||||
 TM4-mt: HHHHHHHHHHHHCCCCEEEE



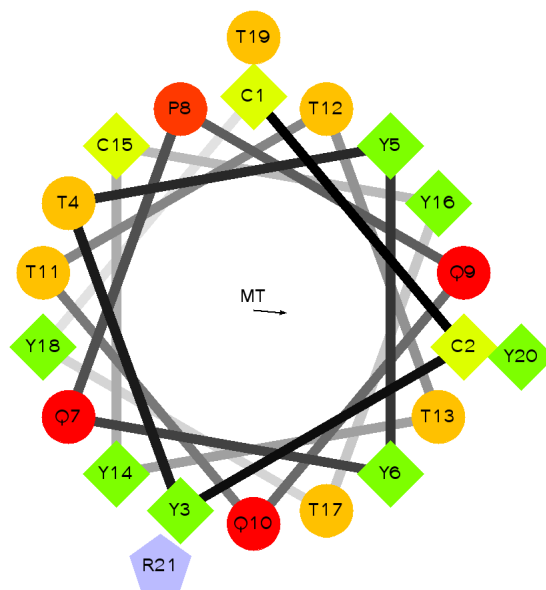
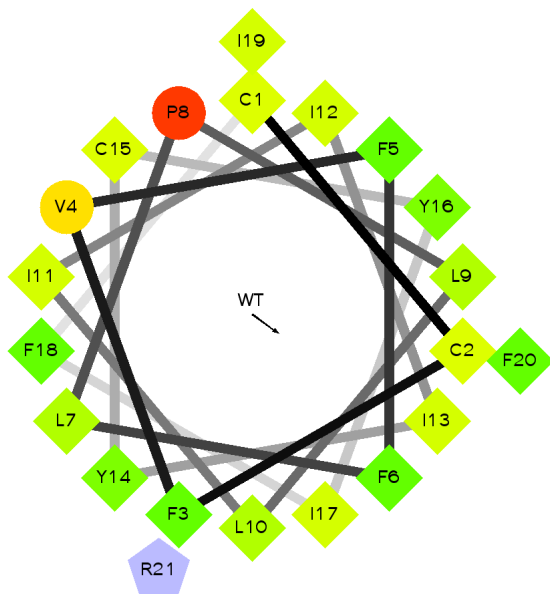
TM5

AA sequence comparison:

TM5-wt: CCFVFFLP¹LLII²IYCYIF³IFR
 |||*****|||*****|||*****|
 TM5-mt: CCY¹TY²YQ³PQ⁴QT⁵TY⁶CY⁷TY⁸TY⁹R

Alpha-helix prediction comparison:

TM5-wt: HHHHHHHHHHHHHHHHHHHHHHHHHHHHH
 |||
 TM5-mt: HHHHHHHHHHHHHHHHHHHHHHHHHHHHH

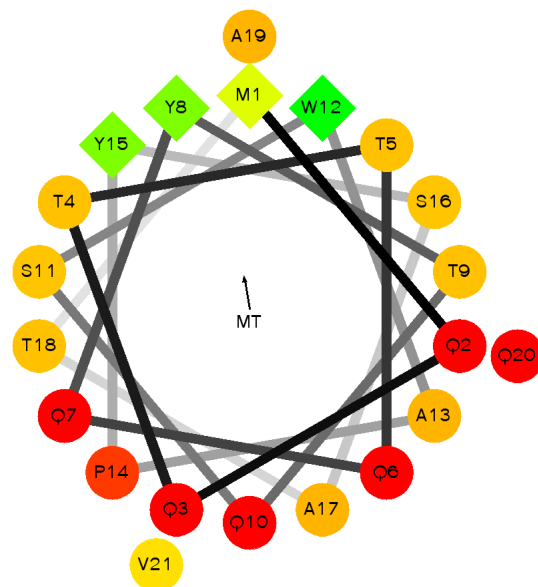
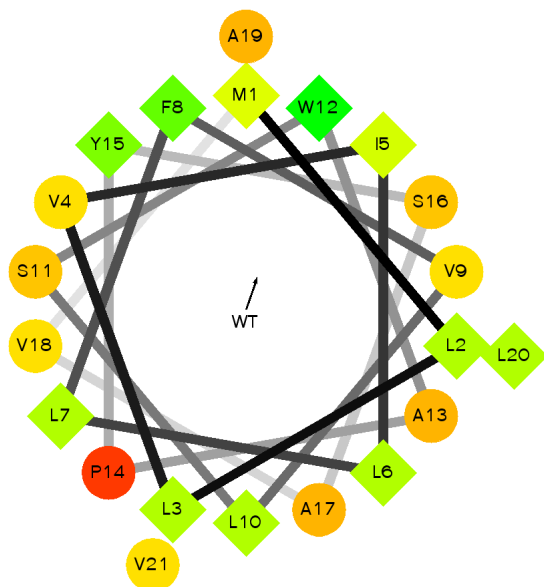
**TM6**

AA sequence comparison:

TM6-wt: MLLVILLFVLSWAPYSAVALV
|*****| | | | |*|*|
TM6-mt: MOQTTOQYTSWAPYSATAQV

Alpha-helix prediction comparison:

TM6-wt: HHHHHHHHHHHHCCHHHHHHHH
 |||||
 TM6-mt: HHHHHHHHHHHHCCHHHHHHHH



TM7

AA sequence comparison:

TM7-wt : VPAVIAKASAIHNPIIYAITH
 *| | *| | *| | *| | *| | *| | *| |
 TM7-mt : TPATTAKASATHNPPTYATTH

Alpha-helix prediction comparison:

TM7-wt : HHHHHHHHHHCCCCCHHHHHHCC
 | | | | | | | | | *| | | | *| | | |
 TM7-mt : HHHHHHHHHHCCCCCEEEEEEC

