**Supplementary Table**

**Table S1.** Glycosylation site prediction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | mutation | substitution site | 80th amino acid(80N) | DNA sequence substitution |
| A.A change | N site | 4 aa  | potential | agree | Result | potential | agree | Result |
| Native | NETI | 　 | 　 | 　 | 0.5903  | 7/9 | + | 　 |
| 1 | **R27T** | 25N | NGTL | 0.7229  | 9/9 | ++ | 0.5902  | 7/9 | + | AGG -> ACG |
| 2 | **R27S** | 25N |  NGSL  | 0.6654  | 9/9 | ++ | 0.5902  | 7/9 | + | 　 |
| 3 | **D39T** | 37N | NFTI | 0.6983  | 9/9 | ++ | 0.5903  | 7/9 | + | 　 |
| 4 | **D39S** | 37N | NFSI | 0.6388  | 9/9 | ++ | 0.5902  | 7/9 | + | 　 |
| 5 | **Q72N** | 72N | NDSS | 0.5261  | 5/9 | + | 0.5943  | 7/9 | + | 　 |
| 6 | **D73N** | 73N | NSSS | 0.6810  | 9/9 | ++ | 0.5807  | 7/9 | + | 　 |
| 7 | **S74N** | 74N | NSST | 0.3662  | 7/9 | - | 0.5459  | 6/9 | + | 　 |
| 8 | **S75N** | 75N | NSTG | 0.5256  | 8/9 | + | 0.5724  | 7/9 | + | 　 |
| 9 | **D110N** | 110N | NFTR | 0.4982 | 2/9 | - | 0.5902 | 7/9 | + | 　 |
| 10 | **E137N** | 137N | NYSH | 0.5313 | 4/9 | + | 0.5902  | 7/9 | + | 　 |
| 11 | "+GNITVNITV" | 168N | NITV | 0.7233  | 9/9 | ++ | 0.5948  | 7/9 | + | GCTAATATCACTGTC |
| 172N | NITV | 0.6587  | 9/9 | ++ | AATATCACTGTC |