ConSurf Results for job:NETnat date:14/08/2023

```
1           11          21          31          41
MLLARMNPQV  QPENNGADTG  PEQPLRARKT  AELLVVKERN  GVQCLLAPRD


51          61          71          81          91
GDAQPRETWG  KKIDFLLSVV  GFAVDLANVW  RFPYLCYKNG  GGAFLIPYTL
   ebe      eeeebbebbb  bbbbbbbbbb  ebbebbeebe  bbbbeebbee
    s           s  s    sssss  s    fssf s  sf  ss sffss

101         111         121         131         141
FLIIAGMPLF  YMELALGQYN  REGAATVWKI  CPFFKGVGYA  VILIALYVGF
bbeebbbbbb  bbbbbbbbeb  eebbbbbbee  beebebbbeb  bbebbebbbb
       s       s  ss        f        f   ss

151         161         171         181         191
YYNVIIAWSL  YYLFSSFTLN  LPWTDCGHTW  NSPNCTDPKL  LNGSVLGNHT
bbbbbbbbbb  ebbebbeeee  bebeeeeee   bbeebebeee  eeeeeeeee
    s          s   s    sfs  f  f       s

201         211         221         231         241
KYSKYKFTPA  AEFYERGVLH  LHESSGIHDI  GLPQWQLLLC  LMVVVIVLYF
ebbeeebbb   bbbbebbbe   beebebbeee  eeebeebeeb  beebbeebee
                  s                     f

251         261         271         281         291
SLWKGVKTSG  KVVWITATLP  YFVLFVLLVH  GVTLPGASNG  INAYLHIDFY
bbeebbeebb  eebeebbeeb  eebeebeee   beeeebeeb   eeebeeeeee
   fs  fss  ff f ss fs  f      f f  ff f   s    f       f

301         311         321         331         341
RLKEATVWID  AATQIFFSLG  AGFGVLIAFA  SYNKFDNNCY  RDALLTSSIN
eeeeeebebe  bbbbbbbbbb  bbbbbbbbbb  bebeeebebe  ebbeebbeeb
    f          sf f s s s     s     sfs f  f       s     s

351         361         371         381         391
CITSFVSGFA  IFSILGYMAH  EHKVNIEDVA  TEGAGLVFIL  YPEAISTLSG
eebbeebbeb  bbbbbbbbbe  eeeeebeebe  beeebbbbbb  bbbbbeebee
  ss   s       ss  s s          s     f  ss        ss

401         411         421         431         441
STFWAVVFFV  MLLALGLDSS  MGGMEAVITG  LADDFQVLKR  HRKLFTFGVT
eeebeebbe   bbbbbbbbbb  bbebbbbbbb  ebeeeeeeee  eeeebbeebb
   f  fss   s  s  s          f

451         461         471         481         491
FSTFLLALFC  ITKGGIYVLT  LLDTFAAGTS  ILFAVLMEAI  GVSWFYGVDR
eebbeebeeb  bbebbbbebb  bbeebbbebb  bbebbbebbe  bbbeebebee
    f              s          f            s          sf

501         511         521         531         541
FSNDIQQMMG  FRPGLYWRLC  WKFVSPAFLL  FVVVVSIINF  KPLTYDDYIF
bbebbeebee  eebeeebeeb  beeebbebbe  ebbebeeee   eebeeeeeb
      s f              s     s

551         561         571         581         591
PPWANWVGWG  IALSSMVLVP  IYVIYKFLST  QGSLWERLAY  GITPENEHHL
eeebbeebee  ebeebbeebe  eee
  f             s
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601              611
V A Q R D I R Q F Q  L Q H W L A I
                        e
```

The conservation scale:

```
1 2 3 4 5 6 7 8 9
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Variable   Average   Conserved

- **e** - An exposed residue according to the NACSES algorithm.
- **b** - A buried residue according to the NACSES algorithm.
- **f** - A predicted functional residue (highly conserved and exposed).
- **s** - A predicted structural residue (highly conserved and buried).
- **x** - Insufficient data - the calculation for this site was performed on less than 10% of the sequences.