

ConSeq Results

| | | | | |
|------------|------------|-------------|---------------|-------------|
| 1 | 11 | 21 | 31 | 41 |
| MDLSALRVEE | VQNVINAMQK | ILECPICLLEL | IKEPVSTKCD | HIFCKFCMLK |
| eeeeeeeb | beebbeeb | bbebebbb | beeebeee | ebbbebbb |
| ff | f sf s sff | sf fs sf | sfffsff sf fs | s f |
| 51 | 61 | 71 | 81 | 91 |
| LLNQKKGPSQ | CPLCKNDITK | RSLQESTRFS | QLVEELLKII | CAFQLDTGLE |
| bbeeeeeeee | beebbeeb | eeeebeeb | ebbeebbb | ebbebeeb |
| ff f ff | sffsff f | ffffffsffs | fssffs | ssf ff f |
| 101 | 111 | 121 | 131 | 141 |
| YANSYNFAKK | ENNSPEHLKD | EVSI IQSMGY | RNRAKRLLOQ | EPENPSLQET |
| bbeeeeb | eeeeeeeb | ebbbbbeb | eebeeb | eeeeeb |
| f | f f | f s s f | fff | f |
| 151 | 161 | 171 | 181 | 191 |
| SLSVQLSNLG | TVRTLRTKQR | IQPQKTSVYI | ELGSDSSED | VNKATYCSVG |
| ebbebeeb | bbeeb | eeeeebbb | ebbeeb | beeebeeb |
| | ff | f ss | ffff | |
| 201 | 211 | 221 | 231 | 241 |
| DQELLQITPQ | GTRDEISLDS | AKKAACEFSE | TDVTNTEHHQ | PSNNDLNTTE |
| eeebbeeb | eeeeeeeb | beebbeeb | eebeeb | eeeebeeb |
| | | f | | |
| 251 | 261 | 271 | 281 | 291 |
| KRAAERHPEK | YQGSSVSNLH | VEPCGTNTHA | SSLQHENS | LLTKDRMNVE |
| eebeeb | eebeeb | beeb | ebbeeb | bbbeeb |
| f | f | ff f s | fs f | f |
| 301 | 311 | 321 | 331 | 341 |
| KAEFCNKSKQ | PGLARSQHNR | WAGSKETCND | RRTPSTEKKV | DLNADPLCER |
| ebbeeb | eeeeeb | eeeeeb | eeeeeb | eebeeb |
| f f | ff f | f | | |
| 351 | 361 | 371 | 381 | 391 |
| KEWNKQKLPC | SENPRDTE | PWITLNSSIQ | KVNEWFSRSD | ELLGSDSDSHD |
| eeeeeb | eeeeeb | ebbbb | ebbeeb | ebbeeb |
| | | ffss | fsff f | f |
| 401 | 411 | 421 | 431 | 441 |
| GESESNAKVA | DVLDVLNEVD | EYSGSSEKID | LLASDPHEAL | ICKSERVHSK |
| eeeeeb | ebbeeb | eeeeeb | bbbeeb | bbbeeb |
| | | f f | | |
| 451 | 461 | 471 | 481 | 491 |
| SVESNIEDKI | FGKTYRKKAS | LPNLSHV | LIIGAFVTEP | QIIQERPLTN |
| eeeeeb | beeb | eebeeb | bbbeeb | ebbeeb |
| ffs | sffff ff | | | |
| 501 | 511 | 521 | 531 | 541 |
| KLKRKR | GLHPEDFIKK | ADLAVQKTPE | MINQGTNQTE | QNGQVMNITN |
| ebbeeb | ebbeeb | beeb | eeeeeb | eeeeeb |
| f ff | s fffssf | f | | |

| | | | | |
|---|---|---------------------------------------|--------------------------------------|---|
| 551 SGHENKTKGD eeeeeeeeee | 561 SIQNEKNPNP ebeeeeeeee | 571 IESLEKESAF eeeeeeeeeb f | 581 KTKAEPISSS eeebbeebee | 591 ISNMELELNI beebebebee |
| 601 HNSKAPKKNR eeeeeeeeee f | 611 LRRKSSSTRHI eeeeeeeeeb f | 621 HALELVVSRN bbbebbbbee f | 631 LSPPNCTELQ eeeeeeeebe f | 641 IDSCSSSEEI beebeeeeeb s f f ff |
| 651 KKKKYNQMPV eeeeeeeeee | 661 RHSRNLQLME eeeeebabee | 671 GKEPATGAKK eeeeeeeeee | 681 SNKPNEQTSK eeeeeeabee | 691 RHSDTFPEL eebeeebeeb |
| 701 KLTNAPGSFT ebeebbbb | 711 KCSNTSELKE eeeeeeeeee | 721 FVNPSLPREE eeeeeeeeee | 731 KEEKLETVKV eeeeeebeb | 741 SNNaedPKDL eeeeeeeeeb |
| 751 MLSGERVLQT bbeebeee | 761 ERSVESSSIS eeeeeebbb f | 771 LVPGTDYGTQ bbeebeee ff f | 781 ESISLLEVST ebbbbbee s s | 791 IGKAKTEPNK eebebeee |
| 801 CVSQCAAFEN ebeebbee | 811 PKGLIHGCSK eeebbeee | 821 DNRNDTEGFK eeeeeebe | 831 YPLGHEVNHS eeeeeeeb | 841 RETSIEMEES eebbebee f f f |
| 851 ELDAQYLQNT eeeeebeeb f fff s f | 861 FKVSKRQSEF beeeeeebeb fff ss | 871 PFSNPGNAEE bbeebeee s f | 881 ECATFSAHSG ebbebebe s | 891 SLKKQSPKVT ebebeeebe |
| 901 FECEQKEENQ eeeeeeeeee | 911 GKNESNIKPV eeeeeeeeeb | 921 QTVNITAGFP ebebebebe | 931 VVGQDKPVD ebebebebe | 941 NAKCSIKGGS eebeeeebb |
| 951 RFCLSSQFRG ebbebeee | 961 NETGLITPNK eeebbbbee | 971 HGLLQNPYRI eebebeee | 981 PPLFPKSFV eeebbebeb | 991 KTKCKKNLLE eebebeee |
| 1001 ENFEEHSMSP eebebeee | 1011 EREMGNENIP eeeeeebe | 1021 STVSTISRNN bebebeee | 1031 IRENVFKEAS beeebeee | 1041 SSNINEVGSS eebbeeee f f |
| 1051 TNEVGSSINE eeeeeebee f ff | 1061 IGSSDENIQA ebeeebebe f ff f | 1071 ELGRNRGPKL eeeeeeeb | 1081 NAMLRLGVLQ ebbbebebe f | 1091 PEVYKQSLPG eebebeee f |
| 1101 SNCKHPEIKK | 1111 QEYEEVVQTV | 1121 NTDESPYLIS | 1131 DNLEQPMGSS | 1141 HASQVCSETP |

| | | | | |
|------------|-------------|------------|------------|-------------|
| eebeeeeeee | eeeeebbb | eeebbbbe | eebeeeeeee | ebbebbbeee |
| | | | f | f fff |
| 1151 | 1161 | 1171 | 1181 | 1191 |
| DDLDDGEIK | EDTSFAENDI | KESSAVFSKS | VQKGELSRSP | SPFTHHLAQ |
| eebeeeeebe | eeeeebbeb | eeebbbbee | beeeeeeeee | eebebbbeee |
| s | | f s f | f | f |
| 1201 | 1211 | 1221 | 1231 | 1241 |
| GYRRGAKKLE | SSEENLSSD | EELPCFQHL | FGKVNNIPSQ | STRHSTVATE |
| eeeeebeeee | eeeeeeeeee | eeebbbbebb | beebbeeeee | eeeeebbee |
| fff | ffff fff | f s f | | |
| 1251 | 1261 | 1271 | 1281 | 1291 |
| CLSKNTEENL | LSLKNSLND | SNQVILAKAS | QEHHLSEETK | CSASLFSSQC |
| ebbeeeeeeb | eebeebbee | eeebbbbbee | eeeebeeebe | bbeebbebeb |
| | | f | f f | s f fsf |
| 1301 | 1311 | 1321 | 1331 | 1341 |
| SELEDLTANT | NTQDPFLIGS | SKQMRHQSES | QGVGLSDKEL | VSDDEERGTV |
| eebeebeeee | eeeeebbee | eeeeeeeeee | eebbbeeeeb | beeeeeeeee |
| f | | f | f | f f |
| 1351 | 1361 | 1371 | 1381 | 1391 |
| LEENNQEEQS | MDSNLGEAAS | GCESETSVSE | DCSGLSSQSD | ILTTQQRDTM |
| beeeeeeeee | beeebeebbe | eeeeeeeeee | ebbebeeebe | bbeeeeeeeb |
| | | ff | f fff | s ffff |
| 1401 | 1411 | 1421 | 1431 | 1441 |
| QHNLIKLOQE | MAELEAVLEQ | HGSQPSNSYP | SIISDSSALE | DLRNPEQSTS |
| eebeebbee | beebbeebbe | eeeeeeeeee | ebbbeeeee | eeeeeeeeee |
| f fs f fff | sf ffssf | ff | | |
| 1451 | 1461 | 1471 | 1481 | 1491 |
| EKAVLTSQKS | SEYPISQNP | GLSADKFEVS | ADSSTSKNKE | PGVERSSPSK |
| eebbbbeeee | eeeeeeeeee | ebbeeebee | eeeeeeeeee | eeeeeeeeee |
| ff | f | f | | f |
| 1501 | 1511 | 1521 | 1531 | 1541 |
| CPSLDDRWYM | HSCSGSLQNR | NYPSQEELIK | VVDVEEQOLE | ESGPHDLTET |
| eebeeeeb | eeeeeeeeee | eeeeeebbe | ebbeeeeeee | eeeeeeeeee |
| | | | | |
| 1551 | 1561 | 1571 | 1581 | 1591 |
| SYLPRQDLEG | TPYLESGISL | FSDDPESDPS | EDRAPESARV | GNIPSSTSAL |
| eeeeeeeeee | eebeeebeb | bbeeeeeeee | eeeeeeeeeb | bebeebbebeb |
| f | ff | | | |
| 1601 | 1611 | 1621 | 1631 | 1641 |
| KVPQLKVAES | AQSPAAHTT | DTAGYNAMEE | SVSREKPELT | ASTERVNKRM |
| ebbeebbee | eeebbebeb | eeeeeeeeee | eeeeeeeeee | eeebbeeb |
| | | | | |
| 1651 | 1661 | 1671 | 1681 | 1691 |
| SMVVSGLTPE | EFMLVYK FAR | KHHITLTNLI | TEETTHVVMK | TDAEFVCERT |
| bbbbbebee | ebbbbbebbe | eeebbbbeb | eebbbbbbe | bebbbbebeb |
| s sssfsf | f fss | f | fffssfs | f sf ssffs |
| 1701 | 1711 | 1721 | 1731 | 1741 |

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LKYFLGIAGG KWVVS YFWVT QSIKERKMLN EHD FEVRGDV VNGR NHQGPK
bebbbbbbbbb ebbbbbbbbb ebbeeebbe eeebebebeb bebeeeeeeee
fsssssss f ss s s ff s f sfs sfs fsfff ff
1751 1761 1771 1781 1791
RARES QDRKI FRGLE ICCYG PFTNMPTDQL EWMVQLCGAS VVKELSSFTL
ebeeeeeeeeb beebbbbbee eeeeeeeeb ebbbbebebe bbeeeeebee
fsfff s f s f fffff ff s f s fsf ss
1801 1811 1821 1831 1841
GTGVHPIVVV QPDAWTE DNG FHAIGQMCEA PVVTREWVLD SVALYQCQEL
eeeeebbbb beebbeeeee beebbeeb ebbeebbbe bbbbbebeeb
s ffs f ssff ssf s ff
1851 1861
DTYLIPQIPH SHY
eeebbeeb eee
f f

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Legend:**The conservation scale:**

1 2 3 4 5 6 7 8 9

Variable Average Conserved

- e** - An exposed residue according to the neural-network algorithm.
- b** - A buried residue according to the neural-network 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.