ConSurf Results for job:kq date:26/08/2025

1 MPGTGLGRLA	11 KRMTAAAAV F	21 LISSGAVLPA	31 QAATTAGHTP	41 STAPAAP <mark>T</mark> DK
eeeebeebe	e b b b b b b b b	bbbebbee	e e e e e e e e	e e e e e e e e
51 HAITTADNGN	61 LHTWWHDNAV	71 FNTTGPTGND	81 EVRRSSFYDL	91 QVAQENQPDK
eeeeeeee	bebbbeeeee ss f	eeeeeebee	ebeebebeeb sf s f	ebbeeeeee
101	111	121	131	141
AYDAFTYMSI eeebbbbbbb	PRSGKDKIGY	TKEDGAEFSS eeeeebebee	QAGLTMSWSS ebebbbbbbb	FEYAKDVWVD bebbeebbbe
ss s	ff f f f	ffsf	sss	sf f s
151	161	171	181	191
VSLRTGQTIT bebeeeebe	SADQVQIRPS ebeebebeee	SYNFEKQLVD eeebeeeee	ADTVKIKVPY eeebebee	SDAGYRFSVE eeebebbbe
	f s ff		f sf	f f ssf
201	211	221	231	241
FEPQLYTAYN beeebbebee	DMSGDSGKLT	TEAEGNRAIH	TEPRNSMMIF	AEPKLRGEQK beeeeeee
s f f	f		ff f s	sff
251	261	271	281	291
ERLVPTEESG	SIHYPAEGEV ebeeeeeb	TNLNAVTEEI eebeebeeeb	IYFKPGTYSM bbbebbebb	GSDYHAVLPP bbeeebebee
f	f	eebeebeeeb	s s s s	bbeeebebee
301	311	321	331	341
NVKWVYLAPG	AYVKGA <mark>FR</mark> F <mark>L</mark>	HDNQSQYKVT	GYGVLSGEQY	VYEADTNNNY
NVKWVYLAPG ebebbbbbee	AYVKGAFRFL bbbebbebe	HDNQSQYKVT	GYGVLSGEQY bbbbbebeeb	VYEADTNNNY beeeeeeee
NVKWVYLAPG ebebbbbbee s s sff 351 NHLSGASNCH	AYVKGAFRFL bbbebbebe s sfss s 361 sscvkmlQfA	HDNQSQYKVT eeeeebebe ff f 371 SADAEQKLDL	GYGVLSGEQY bbbbbebeeb s ss fsffs 381 QGVTVAEPPY	VYEADTNNNY beeeeeee ff ff ff 391 HSFVVYGNEQ
NVKWVYLAPG ebebbbbee s sff	AYVKGAFRFL bbbebbebe s sfss s	HDNQSQYKVT eeeeebebe f f	GYGVLSGEQY bbbbbebeeb s ss fsffs 381 QGVTVAEPPY eebebeeeee	VYEADTNNNY beeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbeee
NVKWVYLAPG ebebbbbbee s s sff 351 NHLSGASNCH eeeeeeebe	AYVKGAFRFL bbbebbebe s sfss s 361 sscvkmlQfA eebbebbebe	HDNQSQYKVT eeeeebebe ff 371 SADAEQKLDL eeeeeebeb	GYGVLSGEQY bbbbbebeeb s ss fsffs 381 QGVTVAEPPY eebebeeeee	VYEADTNNNY beeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbeee
NVKWVYLAPG ebebbbbbee s s sff 351 NHLSGASNCH eeeeeeeebe sf	AYVKGAFRFL bbbebbebe s sfss s 361 SSCVKMLQFA eebbebbebe ssf sf	HDNQSQYKVT eeeeebebe f f 371 SADAEQKLDL eeeeeebeb f f s	GYGVLSGEQY bbbbbebeeb s ss fsffs 381 QGVTVAEPPY eebebeeee f f fff	VYEADTNNNY beeeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbeee fsss
NVKWVYLAPG ebebbbbee s s sff 351 NHLSGASNCH eeeeeeebe sf	AYVKGAFRFL bbbebbebe s sfss s 361 SSCVKMLQFA eebbebbebe ssf sf 411 QVGSWYWQTD ebbebebee	HDNQSQYKVT eeeeebebe f f 371 SADAEQKLDL eeeeeebeb f f s	GYGVLSGEQY bbbbbebeeb s ss fsffs 381 QGVTVAEPPY eebebeeeee f f fff 431 KNTFFNANDD	VYEADTNNNY beeeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbbeee fsss
NVKWVYLAPG ebebbbbbee s s sff 351 NHLSGASNCH eeeeeeebe sf 401 TFHMNVENYK ebebebeebe	AYVKGAFRFL bbbebbebe s sfss s 361 SSCVKMLQFA eebbebbebe ssf sf 411 QVGSWYWQTD ebbebebeee fss sf fff	HDNQSQYKVT eeeeeebebe ff 371 SADAEQKLDL eeeeeebeb ff fs 421 GIELYKGSTM bbebbeeeeb	GYGVLSGEQY bbbbbebeeb s ss fsffs 381 QGVTVAEPPY eebebeeee f f fff 431 KNTFFNANDD eeebbebeee f s f fff	VYEADTNNNY beeeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbeee fsss 441 VLKMYHSDVT bbebbeeebe
NVKWVYLAPG ebebbbbbee s s sff 351 NHLSGASNCH eeeeeeebe sf 401 TFHMNVENYK ebebebeebe f f 451	AYVKGAFRFL bbbebbebe s sfss s 361 SSCVKMLQFA eebbebbebe ssf sf 411 QVGSWYWQTD ebbebebeeefss sf fff 461 NGPVIQWGWT	HDNQSQYKVT eeeeebebe ff 371 SADAEQKLDL eeeeeebeb ff fs 421 GIELYKGSTM bbebbeeeb s f s f 471 PRNIDNVNVT	GYGVLSGEQY bbbbbebeeb s ss fsffs 381 QGVTVAEPPY eebebeeee f f fff 431 KNTFFNANDD eebbeeee f s f fff	VYEADTNNNY beeeeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbbeee fsss 441 VLKMYHSDVT bbebbeeebe f sff
NVKWVYLAPG ebebbbbbee s s sff 351 NHLSGASNCH eeeeeeebe sf 401 TFHMNVENYK ebebebeebe f f 451	AYVKGAFRFL bbbebbebessfssss 361 SSCVKMLQFA eebbebbebessfsf 411 QVGSWYWQTD ebbebebeeefsssffff 461 NGPVIQWGWT eeeebbbbe	HDNQSQYKVT eeeeeebebe ff 371 SADAEQKLDL eeeeeebeb f fs 421 GIELYKGSTM bbebbeeeeb s f s f	GYGVLSGEQY bbbbbebeeb s ss fsffs 381 QGVTVAEPPY eebebeeee f f fff 431 KNTFFNANDD eebbeeee f s f fff	VYEADTNNNY beeeeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbbeee fsss 441 VLKMYHSDVT bbebbeeebe f sff
NVKWVYLAPG ebebbbbee s s sff 351 NHLSGASNCH eeeeeeebe sf 401 TFHMNVENYK ebebebeebe f f 451 IDNTVIWKNE beebbbbeee s f f	AYVKGAFRFL bbbebbebe s sfss s 361 SSCVKMLQFA eebbebbebe ssf sf 411 QVGSWYWQTD ebbebebeee fss sf fff 461 NGPVIQWGWT eeeebebbbe ffff f ss	HDNQSQYKVT eeeeebebe ff 371 SADAEQKLDL eeeeeebeb ff fs 421 GIELYKGSTM bbebbeeeeb s f s f 471 PRNIDNVNVT eeebeebebe f	GYGVLSGEQY bbbbbebeeb s ss fsffs 381 QGVTVAEPPY eebebeeee f f fff 431 KNTFFNANDD eeebbebeee f s f fff 481 NTTVIHNRMY ebbbbbbbbbb	VYEADTNNNY beeeeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbbeee fsss 441 VLKMYHSDVT bbebbeeebe f sff
NVKWVYLAPG ebebbbbees s sff 351 NHLSGASNCH eeeeeeebe sf 401 TFHMNVENYK ebebebeebe f f 451 IDNTVIWKNE beebbbbeee s f f	AYVKGAFRFL bbbebbebe s sfss s 361 SSCVKMLQFA eebbebebe ssf sf 411 QVGSWYWQTD ebbebebeee fss sf fff 461 NGPVIQWGWT eeeebebbbe ffff f ss 511 GSTTKADPNT	HDNQSQYKVT eeeeeebebe ff 371 SADAEQKLDL eeeeeebeb ff fs 421 GIELYKGSTM bbebbeeeb s f s f 471 PRNIDNVNVT eeebeebebe f	GYGVLSGEQY bbbbbbbeeebsssfsffs 381 QGVTVAEPPY eebebeeee fffff 431 KNTFFNANDD eeebbebeee fsffff 481 NTTVIHNRMY ebbbbbbbbbbssssss 531 TVEGMTNCAI	VYEADTNNNY beeeeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbbeee fsss 441 VLKMYHSDVT bbebbeeebe f sff 491 WKDVKYNTCI beeeeeebb f ff
NVKWVYLAPG ebebbbbee s s sff 351 NHLSGASNCH eeeeeeebe sf 401 TFHMNVENYK ebebebeebe f f 451 IDNTVIWKNE beebbbbeee s f f	AYVKGAFRFL bbbebbebe s sfss s 361 SSCVKMLQFA eebbebebe ssf sf 411 QVGSWYWQTD ebbebebeee fss sf fff 461 NGPVIQWGWT eeeebebbbe ffff f ss 511 GSTTKADPNT	HDNQSQYKVT eeeeeebebe ff 371 SADAEQKLDL eeeeeebeb ff fs 421 GIELYKGSTM bbebbeeeb s fs f 471 PRNIDNVNVT eeebeebebe f	GYGVLSGEQY bbbbbbbeeebsssfsffs 381 QGVTVAEPPY eebebeeee fffff 431 KNTFFNANDD eeebbebeee fsffff 481 NTTVIHNRMY ebbbbbbbbbbssssss 531 TVEGMTNCAI	VYEADTNNNY beeeeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbbeee fsss 441 VLKMYHSDVT bbebbeeebe f sff 491 WKDVKYNTCI beeeeeebb f ff
NVKWVYLAPG ebebbbbees s sff 351 NHLSGASNCH eeeeeeebe sf 401 TFHMNVENYK ebebebeebe f f 451 IDNTVIWKNE beebbbbeee s sf f 501 LNSSSHWEDM bebeeebee	AYVKGAFRFL bbbebbebes s sfss s 361 SSCVKMLQFA eebbebebe ssf sf 411 QVGSWYWQTD ebbebebeee fss sf fff 461 NGPVIQWGWT eeeebebbbe ffff f ss 511 GSTTKADPNT eeeeeee	H D N Q S Q Y K V T e e e e e e b e b e	GYGVLSGEQY bbbbbebeebs ssfsffs 381 QGVTVAEPPY eebebeeee f f ffff 431 KNTFFNANDD eeebbebeee f s f ffff 481 NTTVIHNRMY ebbbbbbbbbssssss 531 TVEGMTNCAI ebeebbebbb ff f	VYEADTNNNY beeeeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbbeee fsss 441 VLKMYHSDVT bbebbeeebe f sff 491 WKDVKYNTCI beeeeeebb f ff 541 RVYALSDTEN bbbbeeee s
NVKWVYLAPG ebebbbbee s sff 351 NHLSGASNCH eeeeeeebe sf 401 TFHMNVENYK ebebebebe f f 451 IDNTVIWKNE beebbbbeee s ff 501 LNSSSHWEDM bebeeebeee f f	AYVKGAFRFL bbbebbebe s sfss s 361 SSCVKMLQFA eebbebbebe ssf sf 411 QVGSWYWQTD ebbebebee fss sf fff 461 NGPVIQWGWT eeeebebbbe ffff f ss 511 GSTTKADPNT eeeeeeeff	HDNQSQYKVT eeeeeebebe ff 371 SADAEQKLDL eeeeeebbb ff s 421 GIELYKGSTM bbebbeeebb s f s f 471 PRNIDNVNVT eeebeebebe f	GYGVLSGEQY bbbbbeeebsssfffs 381 QGVTVAEPPY eebebeeeeffff 431 KNTFFNANDD eeebbebeeeffsfff 481 NTTVIHNRMY ebbbbbbbbbbsssss 531 TVEGMTNCAI ebeebbebebb fff	VYEADTNNNY beeeeeeeee ff ff ff 391 HSFVVYGNEQ ebbbbbbeee fsss 441 VLKMYHSDVT bbebbeeebe f sff 491 WKDVKYNTCI beeeeeebb f ff 541 RVYALSDTEN bbbbeeee s f



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.