## ConSurf Results for job:ccdex date:26/08/2025

1	11	21	31	41
MHPARTPRPI	SVATMGAAAL	VAGLLVATPS	AAAPPAT <mark>V</mark> AS	PEDGAVTLDR
eeeeeeeb	bbbbbbbbb	bbbbbbeee	eeeeeeee	eeeeeeee
51	61	71	81	91
TANTDDLRTW	WHQDAAATTD	PIGDNQVRQS	PFYDATIATT	TDPQDQFGSF
eeeeebebb ss	beeeeeeee f	eeeeeebeeb sf s	ebbebebee s s	eeeeeeebb ss
101	111	121	131	141
VYLSVPRSGN	DKIGYTEQDG	AEFSSAADLT bebeeebebb	MSWSSFEYST bbbbbeebe	DVWVDVTLKT
bbbbbeeeee s ff f	eeeeeeeee f f ff	sf	s s sff	ebbbebeeee f s f
151	161	171	181	191
GQAIT <mark>S</mark> ADQV	TIRPTDLGLQ	TQLVDADTVR	VKVPFSEDGY	RFSVEF <mark>DPQ</mark> L
eeebeebeeb f s	ebeeeeebe ff	eeeeeeebe f	bebeeeeeb sf f	ebbbebeeeb f ssfs f
201	211	221	231	241
ITAYNDMSGT bebeeeee	SGALTTSAEG	NRAISTEP QN	SMLVFANPTP bbbbbeeee	SAAEAERTIP
f	f	ff f	ssff	eeeeeeebe f
251	261	271	281	291
TEQSGTIYRP	QPGLVNDLDD	ITQEIVYFGP	GTYSMGSDYH	AVLPENVRWV
eeeeebeee	eeeebeebee f	beeebbbeb s	bebbbbbeee s s s	bebeeebebb f s s
301	311	321	331	341
Y <mark>L</mark> A P G A <mark>Y</mark> V K G	AFRFLHETQP	QFKVTGLGVL	SGEQY <mark>V</mark> YE <mark>A</mark> D	TSNGYQHNVN
YLAPGAYVKG bbbeebbbeb	AFRFLHETQP bbebeeeee	QFKVTGLGVL ebebebbbb f fs sss	SGEQY <mark>V</mark> YEAD ebeebbeeee	TSNGYQHNVN
YLAPGAYVKG bbbeebbbeb s sffs sfs  351 DNCHVTCVKM	AFRFLHETQP bbebeeeee s s 361 LQFESSTQPQ	QFKVTGLGVL ebebebbbbb f fs sss 371 TLDLQGVTIN	SGEQYVYEAD ebeebbeeee fsffs ff f 381 QPPYHSFVVY	TSNGYQHNVN eeeeeee f 391 AHEGDTEVGV
YLAPGAYVKG bbbeebbbeb s sffs sfs  351 DNCHVTCVKM	AFRFLHETQP bbebeeeee s s	QFKVTGLGVL ebebebbbbb f fs sss 371 TLDLQGVTIN ebebeebebe	SGEQYVYEAD ebeebbeeee fsffs ff f	TSNGYQHNVN eeeeeeee f
YLAPGAYVKG bbbeebbbeb s sffs sfs  351 DNCHVTCVKM eebeebbeb	AFRFLHETQP bbebeeeeee s s 361 LQFESSTQPQ bebeeeeeee	QFKVTGLGVL ebebebbbbb f fs sss 371 TLDLQGVTIN ebebeebebe	SGEQYVYEAD ebeebbeeee fsffs ff f  381 QPPYHSFVVY eeeeebbbbb	TSNGYQHNVN eeeeeee f 391 AHEGDTEVGV
YLAPGAYVKG bbbeebbeb s sffs sfs  351 DNCHVTCVKM eebeebbeb sf sf  401 ENFQMNVDNY	AFRFLHETQP bbebeeeeee s s 361 LQFESSTQPQ bebeeeeee sf f f 411 KQVGSWYWQT	QFKVTGLGVL ebebebbbbb ffssss 371 TLDLQGVTIN ebebeebebe s ff 421 DGIELYDGGR	SGEQYVYEAD ebeebbeeee fsffs ff f  381 QPPYHSFVVY eeeeebbbbb ffffsss 431 MKNTFFHAND	TSNGYQHNVN eeeeeeeee f 391 AHEGDTEVGV beeeeebeb f 441 DVLKMYHSDV
YLAPGAYVKG bbbeebbebe s sffs sfs 351 DNCHVTCVKM eebeebbeb sf sf 401 ENFQMNVDNY eebebebeeb	AFRFLHETQP bbebeeeeee s s 361 LQFESSTQPQ bebeeeeee sf f f 411 KQVGSWYWQT eebbebebee	QFKVTGLGVL ebebebbbbb f fs sss 371 TLDLQGVTIN ebebeebebe s f f	SGEQYVYEAD ebeebbeeee fsffs ff f  381 QPPYHSFVVY eeeeebbbbb ffffsss 431 MKNTFFHAND beeebbebee	TSNGYQHNVN eeeeeeee f 391 AHEGDTEVGV beeeeebeb f 441 DVLKMYHSDV ebbebbeeeb
YLAPGAYVKG bbbeebbebe s sffs sfs 351 DNCHVTCVKM eebeebbeb sf sf 401 ENFQMNVDNY eebebebeeb	AFRFLHETQP bbebeeeeee s s 361 LQFESSTQPQ bebeeeeee sf f f 411 KQVGSWYWQT eebbebebee	QFKVTGLGVL ebebebbbb ffssss 371 TLDLQGVTIN ebebeebebe s ff 421 DGIELYDGGR eebebbeee	SGEQYVYEAD ebeebbeeee fsffs ff f  381 QPPYHSFVVY eeeeebbbb ffffsss  431 MKNTFFHAND beeebbebee	TSNGYQHNVN eeeeeeee f 391 AHEGDTEVGV beeeeebeb f 441 DVLKMYHSDV ebbebbeeeb
YLAPGAYVKG bbbeebbeb s sffs sfs 351 DNCHVTCVKM eebeebbeb sf sf 401 ENFQMNVDNY eebebebeeb	AFRFLHETQP bbebeeeeee s s  361 LQFESSTQPQ bebeeeeee sf f f  411 KQVGSWYWQT eebbebebee ffss f ff	QFKVTGLGVL ebebebbbbb ffssss 371 TLDLQGVTIN ebebeebebe s ff 421 DGIELYDGGR eebebbeeee fff f s f	SGEQYVYEAD ebeebbeeee fsffs ff f  381 QPPYHSFVVY eeeeebbbbb ffffsss 431 MKNTFFHAND beeebbebee s f ff	TSNGYQHNVN eeeeeeee f 391 AHEGDTEVGV beeeeebeb f 441 DVLKMYHSDV ebbebbeeeb f sff
YLAPGAYVKG bbbeebbbeb s sffs sfs 351 DNCHVTCVKM eebeebbeb sf sf 401 ENFQMNVDNY eebebebeeb s fs	AFRFLHETQP bbebeeeee s s 361 LQFESSTQPQ bebeeeeee sf f f 411 KQVGSWYWQT eebbebebee ffss f ff 461 ENGPVIQWGW eeeeebbbb	QFKVTGLGVL ebebebbbbb ffssss 371 TLDLQGVTIN ebebeebebe s ff 421 DGIELYDGGR eebebbeeee fff f s f	SGEQYVYEAD ebeebbeeee fsffs ff f 381 QPPYHSFVVY eeeebbbbb ffffsss 431 MKNTFFHAND beeebbebee s f ff	TSNGYQHNVN eeeeeeeee f 391 AHEGDTEVGV beeeeeebeb f 441 DVLKMYHSDV ebbebbeeeb f fsff 491 YWKDTKYNTC bbeeeeeeb
YLAPGAYVKG bbbeebbbeb s sffs sfs 351 DNCHVTCVKM eebeeebbeb sf sf 401 ENFQMNVDNY eebebebeeb s fs 451 AIENTVIWKN ebeebbbbee s sf	AFRFLHETQP bbebeeeeee s s  361 LQFESSTQPQ bebeeeeeee sf f f  411 KQVGSWYWQT eebbebebee ffss f ff  461 ENGPVIQWGW eeeeebbbb fffff f ss	QFKVTGLGVL ebebebbbbb ffssss 371 TLDLQGVTIN ebebeebebe s ff 421 DGIELYDGGR eebebbeeee fffs f 471 TPREIQDVTV eeeebebeebeb ff	SGEQYVYEAD ebeebbeeee fsffs ff f  381 QPPYHSFVVY eeeeebbbbb ffffsss 431 MKNTFFHAND beeebbebee s f ff  481 TNTDVIHNRM eebbbbbbeb	TSNGYQHNVN eeeeeeeee f 391 AHEGDTEVGV beeeeeebeb f 441 DVLKMYHSDV ebbebbeeeb f f sff 491 YWKDTKYNTC bbeeeeeeb f ff
YLAPGAYVKG bbbeebbbeb s sffs sfs 351 DNCHVTCVKM eebeebbeb sf sf 401 ENFQMNVDNY eebebebeeb s fs 451 AIENTVIWKN ebeebbbbee s sf	AFRFLHETQP bbebeeeeee s s 361 LQFESSTQPQ bebeeeeeee sf f f 411 KQVGSWYWQT eebbebebee ffss f ff 461 ENGPVIQWGW eeeeebbbb fffff f ss 511 MGATDRADTA	QFKVTGLGVL ebebebbbbb ffssss 371 TLDLQGVTIN ebebeebebe sff 421 DGIELYDGGR eebebbeeeffffsffsf 471 TPREIQDVTV eeeebebeebeb ff	SGEQYVYEAD ebeebbeeee fsffs ff f  381 QPPYHSFVVY eeeeebbbbb ffffsss  431 MKNTFFHAND beeebbebee s f ff  481 TNTDVIHNRM eebbbbbeb sssfs	TSNGYQHNVN eeeeeeeee f 391 AHEGDTEVGV beeeeebeb f 441 DVLKMYHSDV ebbebbeeeb f f sff 491 YWKDTKYNTC bbeeeeeb f ff
YLAPGAYVKG bbbeebbbeb s sffs sfs 351 DNCHVTCVKM eebeebbeb sf sf 401 ENFQMNVDNY eebebebeeb s fs 451 AIENTVIWKN ebeebbbbee s sf	AFRFLHETQP bbebeeeeee s s 361 LQFESSTQPQ bebeeeeeee sf f f 411 KQVGSWYWQT eebbebebee ffss f ff 461 ENGPVIQWGW eeeeebbbb fffff f ss 511 MGATDRADTA	QFKVTGLGVL ebebebbbbb ffssss 371 TLDLQGVTIN ebebeebebe s ff 421 DGIELYDGGR eebebbeeee fffs f 471 TPREIQDVTV eeeebebeebeb ff	SGEQYVYEAD ebeebbeeee fsffs ff f  381 QPPYHSFVVY eeeeebbbbb ffffsss  431 MKNTFFHAND beeebbebee s f ff  481 TNTDVIHNRM eebbbbbeb sssfs  531 TRVEGTTNCA bebeebbebb	TSNGYQHNVN eeeeeeeee f 391 AHEGDTEVGV beeeeebeb f 441 DVLKMYHSDV ebbebbeeeb f f sff 491 YWKDTKYNTC bbeeeeeb f ff
YLAPGAYVKG bbbeebbeebs sffs sfs 351 DNCHVTCVKM eebeebbeb sf sf 401 ENFQMNVDNY eebebebeeb sfs 451 AIENTVIWKN ebeebbbbee s sf	AFRFLHETQP bbebeeeeee s s 361 LQFESSTQPQ bebeeeeeee sf f f 411 KQVGSWYWQT eebbebebee ffss f ff 461 ENGPVIQWGW eeeeebbbb fffff f ss 511 MGATDRADTA eeeeeee f	QFKVTGLGVL ebebebbbbb ffsssss 371 TLDLQGVTIN ebebebebe sff 421 DGIELYDGGR eebebbeeeffffsffsf 471 TPREIQDVTV eeeebebebeb ff 521 TTVKNMRFTD eebeebebee ffff	SGEQYVYEAD ebeebbeeee fsffs ff f  381 QPPYHSFVVY eeeeebbbbb ffffsss  431 MKNTFFHAND beeebbebee s f ff  481 TNTDVIHNRM eebbbbbeb sssfs  531 TRVEGTTNCA bebeebbebb ff f	TSNGYQHNVN eeeeeeeee f 391 AHEGDTEVGV beeeeebeb f 441 DVLKMYHSDV ebbebbeeeb f f sff 491 YWKDTKYNTC bbeeeeeeb f ff 541 LRIYALSNTE bbbbbeee s
YLAPGAYVKG bbbeebbeebs sffs sfs 351 DNCHVTCVKM eebeebbeb sf sf 401 ENFQMNVDNY eebebebeeb sfs 451 AIENTVIWKN ebeebbbbee s sf	AFRFLHETQP bbebeeeeee s s 361 LQFESSTQPQ bebeeeeeee sf f f 411 KQVGSWYWQT eebbebebee ffss f ff 461 ENGPVIQWGW eeeeebbbb fffff f ss 511 MGATDRADTA eeeeeee f	QFKVTGLGVL ebebebbbbb ffssss 371 TLDLQGVTIN ebebebebe sff 421 DGIELYDGGR eebebbeeeffffsffsf 471 TPREIQDVTV eeeebebebeb ff 521 TTVKNMRFTD eebeebebee ffff	SGEQYVYEAD ebeebbeeee fsffs ff f  381 QPPYHSFVVY eeeeebbbbb ffffsss  431 MKNTFFHAND beeebbebee s f ff  481 TNTDVIHNRM eebbbbbeb sssfs  531 TRVEGTTNCA bebeebbebb ff f	TSNGYQHNVN eeeeeeeee f 391 AHEGDTEVGV beeeeebeb f 441 DVLKMYHSDV ebbebbeeeb f f sff 491 YWKDTKYNTC bbeeeeeeb f ff 541 LRIYALSNTE bbbbbeee s



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).