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

1	11	21	31	41
METTPLNSQK	QLSACEDGED	<mark>CQE</mark> NGVL <mark>QKV</mark>	V P T P G D K V E S	GQISN <mark>G</mark> YSAV
51	61	71	81	91
PSPGAGDDTR	HSIPATTTL	VAELHQG <mark>E</mark> RE	TWGKKVDFLL eeeebeb	SVIGYAVDLG bbbbbbbebb
			fs	s fss
101 NVWRFPYICY	111 QNGGGAFLLP	121 YTIMAIFGGI	131 PLFYMELALG	141 QYHRNGCISI
bbbebbbbb	e b b b b b b e e b	beebbeebbb	bbbbbbbbbb	bebeebbbbb
s sfsss s	sssssf s	s s	s s s s	s
151	161	171	181	191
WRKICPIFKG	IGYAICIIAF	YIASYYNTIM	AWALYYLISS	FTDQLPWTSC
beebbeebbb f s	bbebbebbe s	eebbbbbbbb s	bbbebbeeb s	eeeebebeee f fs f
201	211	221	231	241
KNSWNTGNCT	NYFSEDNITW	TLHSTSPAEE	FYTRHVLQIH	RSKGLQDLGG
eeeeeeebb ff s	e e e e e e e e e	e e e e e b b b e b	bbbeebbbe s	ebebbeeeee f
251	261	271	281	291
ISWQLALCIM	LIFTVIYFSI	WKGVKTSGKV	VWVTATFPYI	ILSVLLVRGA
ebeebeebbe s	e b b e e b b e b b	eebeeebbee fsf f sff	beebbeebee sf ss sf	bbeebeeebe s f
301	311	321	331	341
TLPGAWRGVL	FYLK <mark>P</mark> NWQKL	LETGVWIDAA	AQIFFSLGPG	FGVLLAFASY
TLPGAWRGVL ebebbeebee	FYLKPNWQKL	LETGVWIDAA eeeebeeebb	AQIFFSLGPG bbbbebbbb	FGVLLAFASY bbbbbbbbe
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD	FYLKPNWQKL ebeeeeee f f 361 ALVTSVVNCM	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF	AQIFFSLGPG bbbbebbbb s sfs 381 TVLGYMAEMR	FGVLLAFASY bbbbbbbbe s sf
TLPGAWRGVL ebebbeebee s s s f	FYLKPNWQKL ebeeeee f f 361	LETGVWIDAA eeeebeeebb sf fs	AQIFFSLGPG bbbbebbbb s sfs	FGVLLAFASY bbbbbbbbbbb s sf
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD beeebebeeb	FYLKPNWQKL ebeeeeee f f 361 ALVTSVVNCM beebbeebee	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF bbeebbebbb	AQIFFSLGPG bbbbebbbb s sfs 381 TVLGYMAEMR bbbbbbbeee	FGVLLAFASY bbbbbbbbbc s sf 391 NEDVSEVAKD eeebeebbee
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD beeebebeeb s f f s	FYLKPNWQKL ebeeeeeee f f 361 ALVTSVVNCM beebbeebee	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF bbeebbebbb ss s	AQIFFSLGPG bbbbebbbb s sfs 381 TVLGYMAEMR bbbbbbeee	FGVLLAFASY bbbbbbbbbc s sf 391 NEDVSEVAKD eeebeebbee
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD beeebebeeb s f f s 401 AGPSLLFITY ebbbbbbbbbbbb	FYLKPNWQKL ebeeeeee f 361 ALVTSVVNCM beebbeebee s 411 AEAIANMPAS bbbbeebeee	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF bbeebbebbb ss s s 421 TFFAIIFFLM eebbebbeb	AQIFFSLGPG bbbbebbbb s sfs 381 TVLGYMAEMR bbbbbbbeee s s	FGVLLAFASY bbbbbbbbc s sf 391 NEDVSEVAKD eeebeebee s 441 AGLEGVITAV
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD beeebebeeb s f f s 401 AGPSLLFITY ebbbbbbbbb	FYLKPNWQKL ebeeeeee f 361 ALVTSVVNCM beebbeebee s 411 AEAIANMPAS bbbbeebeees	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF bbeebbebbb ss s s 421 TFFAIIFFLM eebbebbeb	AQIFFSLGPG bbbbebbbb s sfs 381 TVLGYMAEMR bbbbbbbeee s s 431 LITLGLDSTF bbbbbbbebb s s	FGVLLAFASY bbbbbbbbbcs sf 391 NEDVSEVAKD eeebeebbee s 441 AGLEGVITAV bebbbbbbbe
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD beeebebeeb s f f s 401 AGPSLLFITY ebbbbbbbbbbbb	FYLKPNWQKL ebeeeeee f 361 ALVTSVVNCM beebbeebee s 411 AEAIANMPAS bbbbeebeees	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF bbeebbebbb ss s s 421 TFFAIIFFLM eebbebbbeb ss s s	AQIFFSLGPG bbbbebbbb s sfs 381 TVLGYMAEMR bbbbbbbeee s s	FGVLLAFASY bbbbbbbbc s sf 391 NEDVSEVAKD eeebeebee s 441 AGLEGVITAV
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD beeebebeeb s f f s 401 AGPSLLFITY ebbbbbbbbb s s s s	FYLKPNWQKL ebeeeeee f 361 ALVTSVVNCM beebbeebee s 411 AEAIANMPAS bbbbeebeees 461 RRERFVLAVV	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF bbeebbebbb ss s s 421 TFFAIIFFLM eebbebbbeb ss s s	AQIFFSLGPG bbbbebbbb s sfs 381 TVLGYMAEMR bbbbbbbeee s s 431 LITLGLDSTF bbbbbbbebb s f	FGVLLAFASY bbbbbbbbbbbbes s sf 391 NEDVSEVAKD eeebeebee s 441 AGLEGVITAV bebbbbbbee
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD beeebebeeb s f f s 401 AGPSLLFITY ebbbbbbbbbb s s s s 451 LDEFPHVWAK bebeeeeee	FYLKPNWQKL ebeeeeee f 361 ALVTSVVNCM beebbeebee s 411 AEAIANMPAS bbbbeebeees 461 RRERFVLAVV	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF bbeebbebbb ss s s 421 TFFAIIFFLM eebbebbeb ss ss s	AQIFFSLGPG bbbbebbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb	FGVLLAFASY bbbbbbbbbbbss sf 391 NEDVSEVAKD eeebeebbee s 441 AGLEGVITAV bebbbbbbbe 491 LLEEYATGPA bbeebbbeb
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD beeebebeeb s f f s 401 AGPSLLFITY ebbbbbbbbbb s s s s 451 LDEFPHVWAK bebeeeeee f	FYLKPNWQKL ebeeeeeee f 361 ALVTSVVNCM beebbeebee s 411 AEAIANMPAS bbbbeebeee s 461 RRERFVLAVV eeeebbeebb	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF bbeebbebbb ss s s 421 TFFAIIFFLM eebbebbeb ss s s 471 ITCFFGSLVT eebeeebeeb	AQIFFSLGPG bbbbebbbbeee sss 431 LITLGLDSTF bbbbbbbebb ssf 481 LTFGGAYVVK bbebbbbbe ss 531 FSPGWFWRIC	FGVLLAFASY bbbbbbbbbcs sf 391 NEDVSEVAKD eeebeebbee s 441 AGLEGVITAV bebbbbbbbee 491 LLEEYATGPA bbeebbbbeb f
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD beeebebeebs f f s 401 AGPSLLFITY ebbbbbbbbb s s s s 451 LDEFPHVWAK bebeeeeee	FYLKPNWQKL ebeeeeeee f 361 ALVTSVVNCM beebbeebee s 411 AEAIANMPAS bbbbeebeee s 461 RRERFVLAVV eeeebbeebb	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF bbeebbebbb ss s s 421 TFFAIIFFLM eebbebbbeb s s s s	AQIFFSLGPG bbbbebbbbeee sss 431 LITLGLDSTF bbbbbbbeebb ssf 481 LTFGGAYVVK bbebbbbbees 531 FSPGWFWRIC	FGVLLAFASY bbbbbbbbbbbss sf 391 NEDVSEVAKD eeebeebbee s 441 AGLEGVITAV bebbbbbbbe 491 LLEEYATGPA bbeebbbeb
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD beeebebeeb s f f s 401 AGPSLLFITY ebbbbbbbbbb s s s s 451 LDEFPHVWAK bebeeeeee f	FYLKPNWQKL ebeeeeeee f f 361 ALVTSVVNCM beebbeebee s 411 AEAIANMPAS bbbbeebeee s 461 RRERFVLAVV eeeebbeebb	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF bbeebbebbb ss s s 421 TFFAIIFFLM eebbebbeb ss s s 471 ITCFFGSLVT eebeeebeeb	AQIFFSLGPG bbbbebbbbeee sss 431 LITLGLDSTF bbbbbbbebb ssf 481 LTFGGAYVVK bbebbbbbe ss 531 FSPGWFWRIC	FGVLLAFASY bbbbbbbbc s sf 391 NEDVSEVAKD eeebeebee s441 AGLEGVITAV bebbbbbbee 491 LLEEYATGPA bbeebbbbeb f
TLPGAWRGVL ebebbeebee s s sf 351 NKFNNNCYQD beeebebeeb s f f s 401 AGPSLLFITY ebbbbbbbbbb s s s s 451 LDEFPHVWAK bebeeeeee f 501 VLTVALIEAV bbebbebe	FYLKPNWQKL ebeeeeeee f 361 ALVTSVVNCM beebbeebee s 411 AEAIANMPAS bbbbeebeee s 461 RRERFVLAVV eeeebbeebb	LETGVWIDAA eeeebeeebb sf fs 371 TSFVSGFVIF bbeebbebbb ss s s 421 TFFAIIFFLM eebbebbeb ss s s 471 ITCFFGSLVT eebeeebeeb 521 FCRDVKEMLG bbebbe	AQIFFSLGPG bbbbebbbbees 381 TVLGYMAEMR bbbbbbbeee ss 431 LITLGLDSTF bbbbbbbebb ss f 481 LTFGGAYVVK bbebbbbbee s	FGVLLAFASY bbbbbbbbbbe s sf 391 NEDVSEVAKD eeebeebee s 441 AGLEGVITAV bebbbbbbbe 491 LEEYATGPA bbeebbbeb f 541 WVAISPLFLL beeebbeebe s

601 611 621

PGTFKERIIK SITPETPTEI PCGDIRLNAV

The conservation scale:

1 2 3 4 5 6 7 8 9

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.