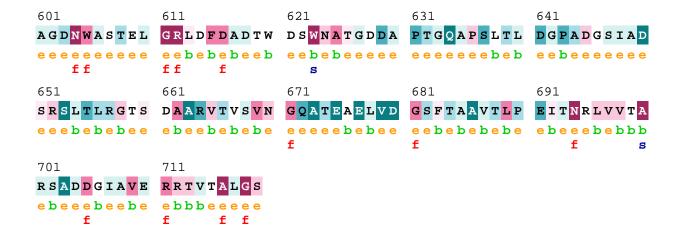
ConSurf Results for job:mrdex date:26/08/2025

1	11	21	31	41
MTALSARPAQ	RR <mark>RRGGVA</mark> LA	AL <mark>AA</mark> LVFGSL	GTAAASAPAA	AADEAPTTWG
eeeeeeeee f ff	eeeebbbbbb	bbbebbeeee	eeeeeeee	eeeeebebbb ss
51	61	71	81	91
HDNAIATTGP	IADDQVRQSP	FYSASVASAA	DPAAGNDSFV	YLSVPRSGNG
f	ebeeebeebe sf s	beebebbeee f s	eeeeeebbb ss	bbbbeeeee s ff f
101 KIGYTEQDGA	111	121	131	141
	EFAADAGLSM ebeeebebbb	SWSSFEYSAD bbbbebbee	ATVDVSLTTG bbbebebee	QTIDSVDQVT eebeebeebe
f f ffs	f s	ss s f	s	f s
151	161	171	181	191
IRPTDLGLHT	EL <mark>V</mark> DDT <mark>T</mark> VRV	TVPYSEGGYR	FSVEFDPQLF	TAYNDMSDAS
beeeeeebee ff	eeeeeebeb f f	ebeeeeebe sf f f	bbbebeeebb ssfs f	ebeeeeeee f f
201	211	221	231	241
GLLTTEAEGN	RAVHTEPRNS	LMVFANAAPD	QAETERTIPT	E A D G S I H R P A
eeeeeeee	eebeeeeeb ff f	bbbbbeeee ssff	eeeeeebee f	eeeebeeee
251	261	271	281	291
EGRVNDLNDI	SEEIIYFEPG	VYDMGSDYHA	VLPANVRWVY	LAPGAYVKGA
e e e b e e b e e b	eeebbbbebb s s	ebbbbbeeeb fs s	ebeeebebbb s s s	bbeebbbebb sffs sfss
301	311	321	331	341
FRFADNTQPH	YKVTGLGVLS	GEQY <mark>V</mark> YE <mark>P</mark> D <mark>T</mark>	T N G Y E H N V N E	NCHSDCVKML
			T N G Y E H N V N E	
FRFADNTQPH bebeeeeee s	YKVTGLGVLS bebebebbe fs ss f	GEQYVYEPDT beebbeeeee sffs ff ff	TNG Y EHN VN E e e e e e e e e e f	NCHSDCVKML ebeeebbebb sf ssf s
FRFADNTQPH bebeeeee s 351 QFESSDDAQQ	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN	GEQYVYEPDT beebbeeee sffs ff ff 371 PPYHSFVVYQ	TNGYEHNVNE eeeeeee f 381 HDDIGEVLVT	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK
FRFADNTQPH bebeeeeee s	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN bebeebebee	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb	TNGYEHNVNE eeeeeeee f 381 HDDIGEVLVT eeeeebebe	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK
FRFADNTQPH bebeeeeee s 351 QFESSDDAQQ ebeeeeeee f f f	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN bebeebebee s f f	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss	TNGYEHNVNE eeeeeeee f 381 HDDIGEVLVT eeeeebbe f	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebebeebe s f f
FRFADNTQPH bebeeeeee s 351 QFESSDDAQQ ebeeeeee f f f 401	YKVTGLGVLS bebebebbe fs ss f 361 LELQGVTIAN bebeebebee s f f	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss 421 SDTFFHANDD	TNGYEHNVNE eeeeeeee f 381 HDDIGEVLVT eeeeebbbe f 431	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebebeebe s f f
FRFADNTQPH bebeeeeee s 351 QFESSDDAQQ ebeeeeeee f f f	YKVTGLGVLS bebebebbe fs ss f 361 LELQGVTIAN bebeebebee s f f	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss	TNGYEHNVNE eeeeeeee f 381 HDDIGEVLVT eeeeebbbe f 431	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebebeebe s f f
FRFADNTQPH bebeeeeee s 351 QFESSDDAQQ ebeeeeee f f f 401 QVGSWYWQTD ebbebeee	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN bebeebebee s f f 411 GIELYPGGRM bbebeeeb	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss 421 SDTFFHANDD eeebbebeee	TNGYEHNVNE eeeeeeee f 381 HDDIGEVLVT eeeeeebebe f 431 VLKMYHDDVQ bbebbeeebe	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebebeebe sf f 441 IQNTVIWKNE beebbbbeee
FRFADNTQPH bebeeeeee s 351 QFESSDDAQQ ebeeeeee f f f 401 QVGSWYWQTD ebbebeee fss sf fff	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN bebeebebee s f f 411 GIELYPGGRM bbebbeeeb s f s	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss 421 SDTFFHANDD eeebbebeee s f fff	TNGYEHNVNE eeeeeeeee f 381 HDDIGEVLVT eeeeeebebe f 431 VLKMYHDDVQ bbebbeeebe f sff	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebebeebe s f f 441 IQNTVIWKNE beebbbbeee s f f
FRFADNTQPH bebeeeeee s 351 QFESSDDAQQ ebeeeeeee f f f 401 QVGSWYWQTD ebbebeee fss sf fff	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN bebeebebee s f f 411 GIELYPGGRM bbebbeeeb s f s	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss 421 SDTFFHANDD eeebbebeee sf fff	TNGYEHNVNE eeeeeeeee f 381 HDDIGEVLVT eeeeeebebe f 431 VLKMYHDDVQ bbebbeeebe f sff 481 WKDVKYNTCV	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebebeebe s f f 441 IQNTVIWKNE beebbbbeee s sf f
FRFADNTQPH bebeeeeee s 351 QFESSDDAQQ ebeeeeeee f f f 401 QVGSWYWQTD ebbebeee fss sf fff 451 NGPVVQWGWG eeeebebbbe ffff f ss	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN bebeebebee s f f 411 GIELYPGGRM bbebbeeeb s f s 461 PREIDGVSVT eeebeebebe	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss 421 SDTFFHANDD eeebbeeee s f fff 471 NTDVIHNRMY ebbbbbbbbbbb	TNGYEHNVNE eeeeeeeee f 381 HDDIGEVLVT eeeeeebebe f 431 VLKMYHDDVQ bbebbeeebe f sff 481 WKDVKYNTCV beeeeeeebb	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebebeebe sf f 441 IQNTVIWKNE beebbbbeee s f f 491 FNSSTHWEDM bebeeebeee
FRFADNTQPH bebeeeeee 351 QFESSDDAQQ ebeeeeeee f f f 401 QVGSWYWQTD ebbebebeee fss sf fff 451 NGPVVQWGWG eeeebebbbe ffff f ss 501 SATDRADPTQ	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN bebeebebee s f f 411 GIELYPGGRM bbebbeeeb s f s 461 PREIDGVSVT eeebeebebe ff	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss 421 SDTFFHANDD eeebbeeee sf fff 471 NTDVIHNRMY ebbbbbbbbb sssss 521 RVEGKVNCAV	TNGYEHNVNE eeeeeeeee f 381 HDDIGEVLVT eeeeeebebe f 431 VLKMYHDDVQ bbebbeeebe f sff 481 WKDVKYNTCV beeeeeebb f f s	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebebeebe sf f 441 IQNTVIWKNE beebbbbeee sf f 491 FNSSTHWEDM bebeeebeee ff
FRFADNTQPH bebeeeeee s 351 QFESSDDAQQ ebeeeeeee f f f 401 QVGSWYWQTD ebbebeee fss sf fff 451 NGPVVQWGWG eeeebebbbe ffff f ss	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN bebeebebee s f f 411 GIELYPGGRM bbebbeeeb s f s 461 PREIDGVSVT eeebeebebe ff	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss 421 SDTFFHANDD eeebbeeee sf fff 471 NTDVIHNRMY ebbbbbbbbb sssss 521 RVEGKVNCAV	TNGYEHNVNE eeeeeeeee f 381 HDDIGEVLVT eeeeeebebe f 431 VLKMYHDDVQ bbebbeeebe f sff 481 WKDVKYNTCV beeeeeebb f f s	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebebeebe sf f 441 IQNTVIWKNE beebbbbeee s f f 491 FNSSTHWEDM bebeeebeee f f
FRFADNTQPH bebeeeeee 351 QFESSDDAQQ ebeeeeeee f f f 401 QVGSWYWQTD ebbebebeee fss sf fff 451 NGPVVQWGWG eeeebebbbe ffff f ss 501 SATDRADPTQ eeeeeeeee	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN bebeebebee s f f 411 GIELYPGGRM bbebbeeeb s f s 461 PREIDGVSVT eeebebebe ff 511 TVRNMTFTDT ebeebebeeb	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss 421 SDTFFHANDD eeebbeeee sf fff 471 NTDVIHNRMY ebbbbbbbb sssss 521 RVEGKVNCAV ebeebbebbb ff	TNGYEHNVNE eeeeeeee f 381 HDDIGEVLVT eeeeeebebe f 431 VLKMYHDDVQ bbebbeeebe f sff 481 WKDVKYNTCV beeeeeebb f f s	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebeeebe sf f 441 IQNTVIWKNE beebbbbeee s sf f 491 FNSSTHWEDM bebeeebee f f 541 ITIDGLDIDE bebeebebee f
FRFADNTQPH bebeeeeee s 351 QFESSDDAQQ ebeeeeeee f f f 401 QVGSWYWQTD ebbebebeee fss sf fff 451 NGPVVQWGWG eeeebebbbe ffff f ss 501 SATDRADPTQ eeeeeeee ff	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN bebeebebee s f f 411 GIELYPGGRM bbebbeeeb s f s 461 PREIDGVSVT eeebebebe ff 511 TVRNMTFTDT ebeebebebeeb f f	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss 421 SDTFFHANDD eeebbebeee sf fff 471 NTDVIHNRMY ebbbbbbbbbb sssss 521 RVEGKVNCAV ebeebbebbb ff	TNGYEHNVNE eeeeeeee f 381 HDDIGEVLVT eeeeeebebe f 431 VLKMYHDDVQ bbebbeeebe f sff 481 WKDVKYNTCV beeeeeebb f f s 531 RLFAMANTEN bbbbbeeee s	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebebeebe sf f 441 IQNTVIWKNE beebbbbeee s sf f 491 FNSSTHWEDM bebeeebeee f f 541 ITIDGLDIDE bebeebebee f
FRFADNTQPH bebeeeeee s 351 QFESSDDAQQ ebeeeeeee f f f 401 QVGSWYWQTD ebbebebeee fss sf fff 451 NGPVVQWGWG eeeebebbbe ffff f ss 501 SATDRADPTQ eeeeeeee ff	YKVTGLGVLS bebebebbbe fs ss f 361 LELQGVTIAN bebeebebee s f f 411 GIELYPGGRM bbebbeeeb s f s 461 PREIDGVSVT eeebebebe ff 511 TVRNMTFTDT ebeebebebeeb f f	GEQYVYEPDT beebbeeeee sffs ff ff 371 PPYHSFVVYQ eeeebbbbbb ffffsss 421 SDTFFHANDD eeebbeeee sf fff 471 NTDVIHNRMY ebbbbbbbb sssss 521 RVEGKVNCAV ebeebbebbb ff	TNGYEHNVNE eeeeeeee f 381 HDDIGEVLVT eeeeeebebe f 431 VLKMYHDDVQ bbebbeeebe f sff 481 WKDVKYNTCV beeeeeebb f f s 531 RLFAMANTEN bbbbbeeee s	NCHSDCVKML ebeeebbebb sf ssf s 391 DFTMTVDDYK ebebebeebe sf f 441 IQNTVIWKNE beebbbbeee s sf f 491 FNSSTHWEDM bebeeebeee f f 541 ITIDGLDIDE bebeebebee 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.