

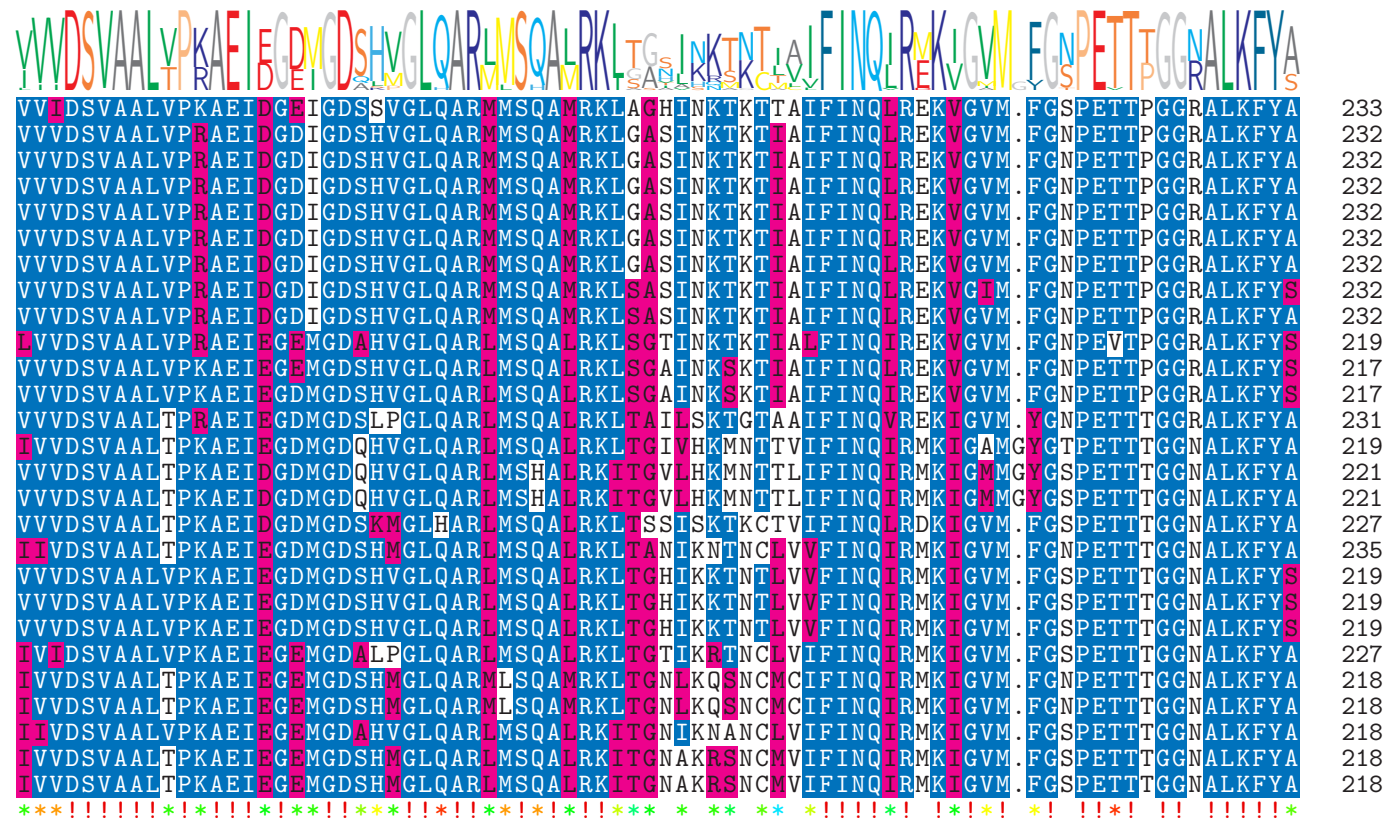
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NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	I	ALGSGGY	PKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	I	ALGSGGY	PKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	I	ALGSGGY	PKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	I	ALGSGGY	PKGR	73
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NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVM	SSGSLALD	I	ALGAGGY	PKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVM	SSGSLALD	I	ALGAGGY	PKGR	73
NTDB id 625 LCA RS02525 WP 011374196.1	MAKD	ERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQVST	VSSGSLALDE	A	LGVG	GGYPRGR	60
NTDB id 981806 MHI21 RS10900 WP 023988239.1	MS	DRRAALDMALRQIEKQ	FGKGSIMKLGES	.THMQVET	IPSGSIALD	I	ALGT	GGFPRGR	58
NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQIEKQ	FGKGSIMKLG EK	.TDTRI	STVPSGSLALD	T	ALGI	GGYPRGR	58
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERSKATETAMSQIEKA	FGKGSIMKLGAE	.SKLDVQV	VSTGSLSLD	L	ALGV	GGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	MDDN	KRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDS	IGTGSVGLDL	L	ALGI	GGVPRGR	59
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NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSPND	DKKKALAAVLEKLDKT	YGKGTVMKLG	DGTVDHNI	EVIPSGSLGLDL	L	ALGV	GGYPRGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPEQ	KKQALEAALAQIEKQ	FGKGSIMKLGQT	.EQLDIES	VSTGSLGLDL	L	ALGI	GGLPGR	76
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NTDB id 1123 OK783 RS03845 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QREENLEV	ISTGSLGLDL	L	ALGV	GGLPGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA	EKQKALAAALAQIEKQ	FGKGSIMKMGDA	.EVEPVQV	VSTGSLGLD	V	ALGV	GGLPGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDEN	KKKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAG	GLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDEN	KKKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAG	GLPMGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	MDEN	KKRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQAIPS	ISTGSLGLD	I	ALGI	GGLPGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDN	KSALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	I	ALGI	GGLPGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDEN	KSALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	I	ALGI	GGLPGR	59
consensus		*** **	***	***	***	***	***	***	***

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	N	A	L	D	P	E	Y	A	K	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	Y	G	E	Q	G	L	I	A	E	K	L	I	T	S	G	A	V	D	L	154		
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consensus	**	!	*	*	*	!	!	!	!	!	!	*	!	*	!	*	*	!	*	*	!	*	*	!	*	*	!	*	*	*	!	*	*	*	!	*	*	*	!	*	*	*	!																																						

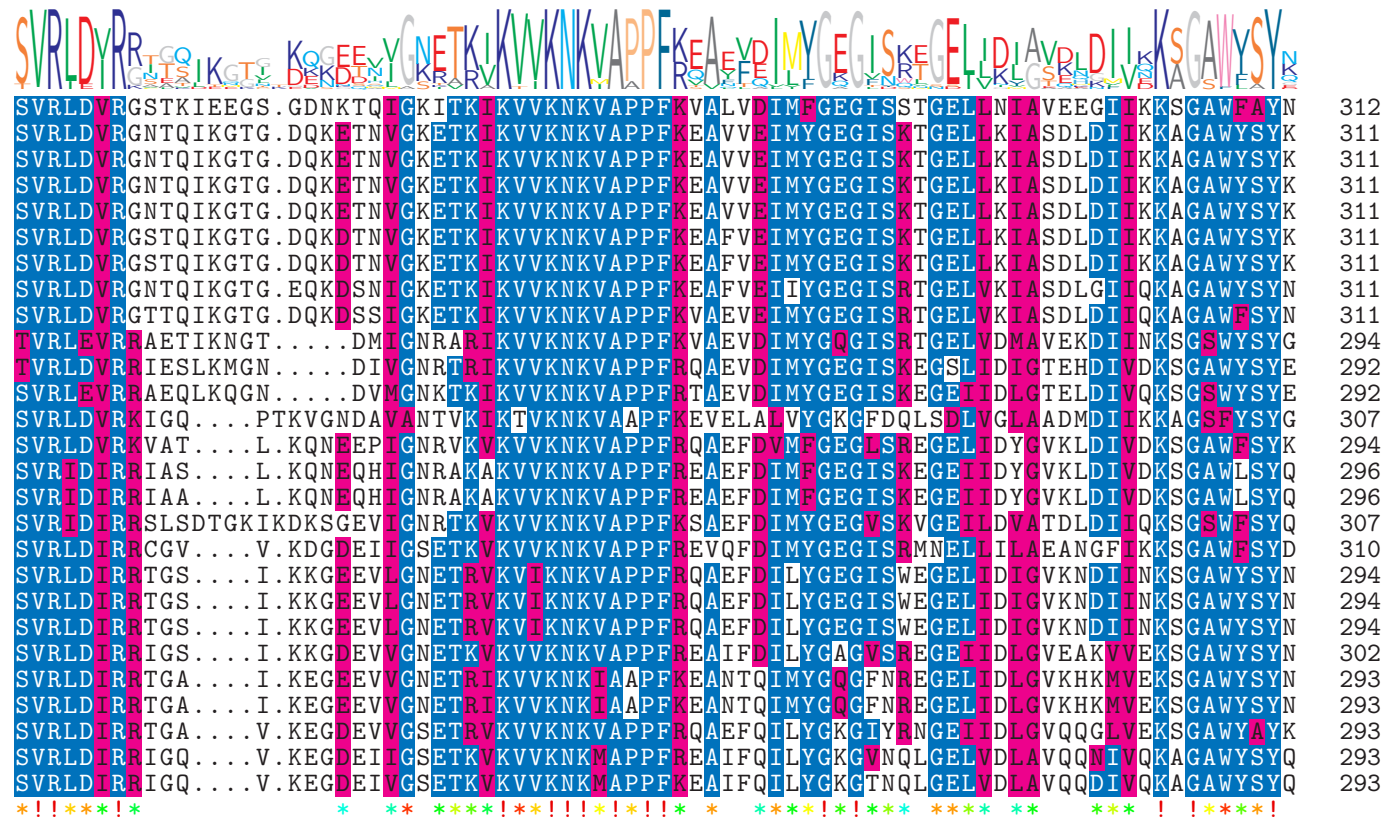
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NTDB id 408 SMU RS09530 WP 002262392.1
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consensus



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consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETEEIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	IDGEEIAES....	KKDE....AAQVDS	.VNEEVTLDLGDE	LEIE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEV	FAEIDHQVRVQFGL	IDGEEAAES....	KKDE....VAQVDS	.VNEEVTLDLGDE	LEIE	381
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEKQSS	KEK.....ETDEK	.ADKNLVLELDDT	IELE	382
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAM	AVASE.....E.....	TDDLALDLDNGIE	IEIE	377
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGR	ENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPEED....	LPTTEDE.....Q....	INILPDDSTEE....		355
NTDB id 981806 MHI21 RS10900 WP 023988239.1	GERLGQGR	ENAKQFLKENPNIA	STIEQKIRVASNL	ITTVPPTTEEEL	AQQAKE.....E....	QELLELE.....		353
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGR	ENAKQFLKENKD	IMLMIQEQIREHY	GLDNN.....GVVQ	QAEE.....T....	QEELEFEE.....		348
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGK	EKTIAIYIAERP	EMEIEIRDRVMAA	IRAGNAGEAPAL	AAPAAPEAAEA.....			363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGR	ENSKAFLKENPEI	ADEITKAIQNSMG	IEGMI.....SGSE	DD..GEE.....			343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGR	ENAKALLKEDKAL	ADEITLKIKESIG	SNEEI.....MPLP	DEP..LEEME.....			347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGR	ENAKALLKEDKAL	ADEITLKIKESIG	SNEEI.....MPLP	DEP..LEEME.....			347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGR	DTVKELIKDNPE	LAELEAKIREKL	QAK.....				343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGN	NAVVKWLKENPEI	ADKLEQEIRNTLA	SNPNS....VLKAT	ASDSNDESD..VEEF	SEEEL.....		372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGD	NVRVWLKENPEIS	DEIDAKIRALNG	VEMHI....TEGT....	QDET..DGERPEE.....			348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGD	NVRVWLKENPEIS	DEIDAKIRALNG	VEMHI....TEGT....	QDET..DGERPEE.....			348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGD	NVRVWLKENPEIS	DEIDAKIRALNG	VEMHI....TEGT....	QDET..DGERPEE.....			348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCREFLRENAEL	AREIENKVREHLG	VTPMG....AV.TL	AEEVEED.....			352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGN	ANACKYLLKENPEI	AKTLDKKLREML	LNPNEM....QLIA	ETSSAADDVE..FG	AVPEEF.....		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGN	ANACKYLLKENPEI	AKTLDKKLREML	LNPNEM....QLIA	ETSSAADDVE..FG	AVPEEF.....		354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGN	ANAAYLEENPEIG	QIEQQIRAKLLV	TSAN....TKATP	VAEDLADAD..I.....			347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGN	NNVIRYLEENPQ	ISTEIEAVIREQL	LLTKASD....QTAA	.HDETEEEP..LL..	ES.....		349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGN	NNVIRYFEENNQ	IAEEIERNIREQL	LLTTGTN....GAVQ	.I.EDEEEP..LL..	LES.....		349
consensus	***!!!	*****	**	*****	*****	**	**	

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		IEE	
NTDB id 600	KW2 RS01765 WP 011675413.1	...	387
NTDB id 269	KZH43 RS08665 WP 001085462.1	IEE	388
NTDB id 228	SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194	SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159	SP RS09750 WP 001085462.1	IEE	388
NTDB id 499	SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527	SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 408	SMU RS09530 WP 002262392.1	D..	383
NTDB id 453	Spy49 1753c ACI62003.1	D..	378
NTDB id 625	LCA RS02525 WP 011374196.1	...	355
NTDB id 981806	MHI21 RS10900 WP 023988239.1	...	353
NTDB id 115	BSU 16940 NP 389576.2	...	348
NTDB id 1313	DR RS12030 WP 010888966.1	...	363
NTDB id 1245	Cj1673c YP 002345041.1	...	343
NTDB id 1211	C694 RS00795 WP 000963128.1	...	347
NTDB id 1214	NCTC11637 00359 SQJ03206.1	...	347
NTDB id 1334	RAOC RS04870 WP 004918236.1	...	343
NTDB id 1389	A4U84 RS07560 WP 021112712.1	...	372
NTDB id 1130	NGFG RS03960 WP 003688695.1	...	348
NTDB id 1124	NGFG RS03960 WP 003688695.1	...	348
NTDB id 1123	OK783 RS03845 WP 003688695.1	...	348
NTDB id 1427	RS RS02760 WP 011000510.1	...	352
NTDB id 1165	A1552VC RS01565 WP 000344154.1	...	354
NTDB id 1142	GTF74 RS11550 WP 000344154.1	...	354
NTDB id 1205	PSJM300 05545 AFN77183.1	...	347
NTDB id 1022	ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074	ABD1 RS10195 WP 000344167.1	...	349
consensus			

- X non conserved
- X similar
- X ≥ 50% conserved