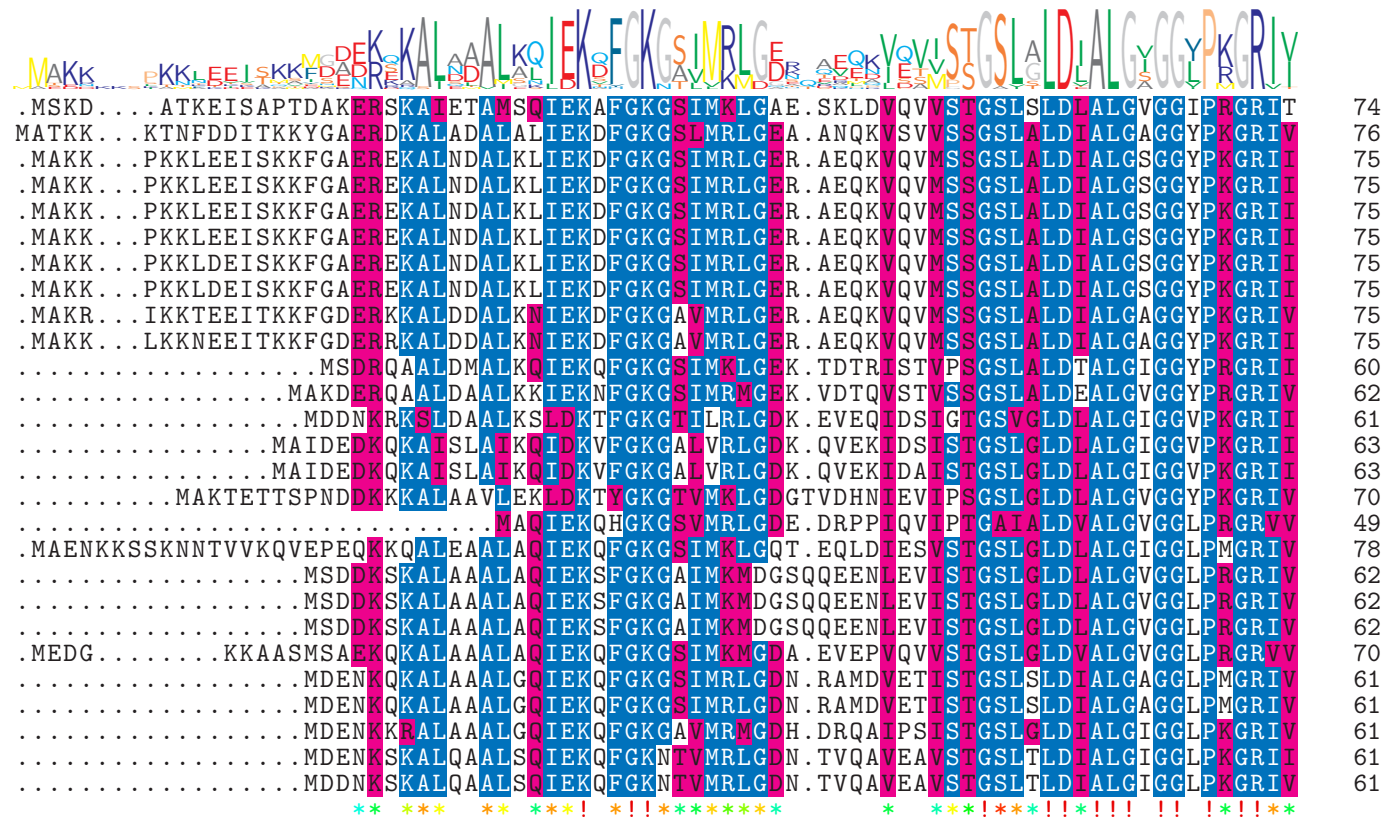


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NTDB id 1130 NGFG RS03960 WP 003688695.1
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consensus

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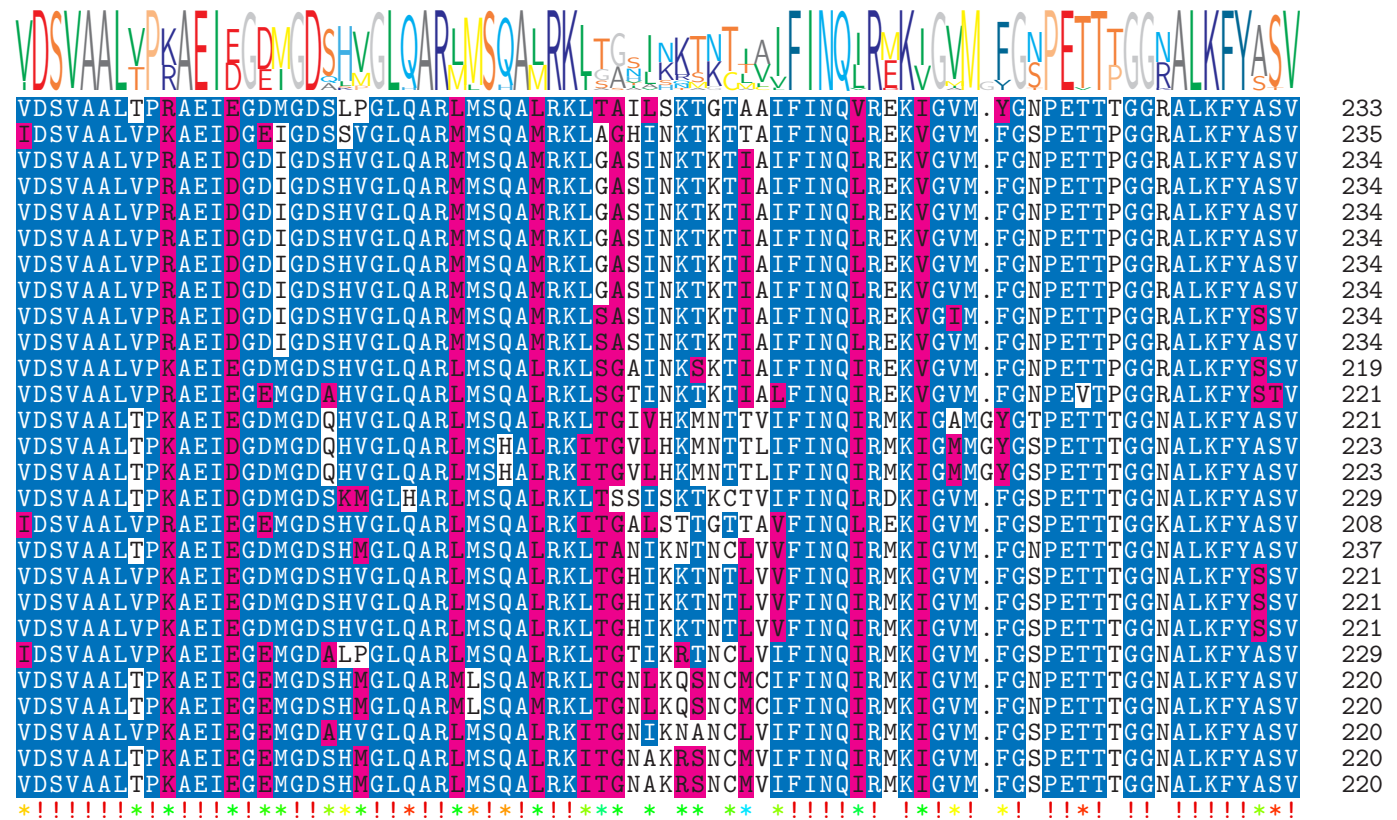
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NTDB id 269 KZH43 RS08665 WP 001085462.1	EIYGPESSGKTTT	155
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NTDB id 453 Spy49 1753c ACI62003.1	EIYGPESSGKTTT	155
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NTDB id 1211 C694 RS00795 WP 000963128.1	EIYGPESSGKTTT	143
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NTDB id 1334 RAOC RS04870 WP 004918236.1	EIYGPESSGKTTT	150
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consensus

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NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAGAW	YSYK	DE	313		
NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAGAW	YSYK	DE	313		
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAGAW	YSYK	DE	313		
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAGAW	YSYK	DE	313		
NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVEIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAGAW	YSYK	DE	313		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVEIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAGAW	YSYK	DE	313		
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NTDB id 453 Spy49 1753c AC162003.1	RLDVRGTTQIKGTG.DQKDSS	IGKETK	IKVVKNKV	APPFKE	AEVEIMY	GEGIS	RTGEL	VKIAS	DLDI	IQ	KKAGAW	FSYNGE		313	
NTDB id 115 BSU 16940 NP 389576.2	RLEVRRAEQLKQGN.....	DVMGNKTK	IKVVKNKV	APPFRT	AEVDIMY	GEGIS	KEGEI	IDL	GTELD	IV	QKSGS	WYSY	EEEE	294	
NTDB id 625 LCA RS02525 WP 011374196.1	RLEVRRAETIKNGT.....	DMIGNRAR	IKVVKNKV	APPFKE	AEVDIMY	GQGIS	RTGEL	VDMA	VEKDI	IN	KSGS	WYSY	GSE	296	
NTDB id 1245 Cj1673c YP 002345041.1	RLDVRKVAT....L.KQNEEP	IGNRVK	VVVKNKV	APPFRA	AEFDVM	FGEGL	SREGEL	IDY	GVKLD	IV	DKSGA	WFSY	KDK	296	
NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIAS....L.KQNEQH	IGNRAK	AKVVKNKV	APPFRA	AEFDIM	FGE	GISKEGE	IIDY	GVKLD	IV	DKSGA	WLSY	QDK	298	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNEQH	IGNRAK	AKVVKNKV	APPFRA	AEFDIM	FGE	GISKEGE	IIDY	GVKLD	IV	DKSGA	WLSY	QDK	298	
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRSLSDTGKIKDKSGEV	IGNRTK	VVVKNKV	APPFK	SAEFDIMY	GEGV	SKVGE	ILDV	ATDL	DI	IQKSG	SWFSY	QDT	309	
NTDB id 379100 FA582 RS10370 WP 010147796.1	RIDVRRRIET....L.KDGTDA	VGNRTAK	IVKNKV	SPPFK	QAEFDILY	GQGIS	REGGL	IDM	GVHGF	VR	KSGAW	YT	YEGE	283	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCGV....V.KDGD	DEIIG	SETKV	VVVKNKV	APPFREV	QFDIMY	GEGIS	RMNELL	ILAE	ANGF	IK	KKSGA	WFSY	DGT	312
NTDB id 1130 NGFG RS03960 WP 003688695.1	RLDIRRTGS....I.KKGE	EEVLGN	ETRVK	VKNKV	APPFRA	AEFDILY	GEGIS	WEGEL	IDIG	VKNDI	IN	KKSGA	WYSY	NGA	296
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NTDB id 1427 RS RS02760 WP 011000510.1	RLDIRRIGS....I.KKGE	DEVVGN	ETKVV	VKNKV	APPFRA	EAFDILY	GAGVS	REGEI	IDLG	VEAK	VVEK	SGAW	YSYNGE	304	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRRTGA....I.KEGE	EEVVGNET	RIKVVKNK	IAAPFKE	ANTQIMY	GQGF	NREGEL	IDLG	VKHKM	VVEK	SGAW	YSYNGD		295	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTGA....I.KEGE	EEVVGNET	RIKVVKNK	IAAPFKE	ANTQIMY	GQGF	NREGEL	IDLG	VKHKM	VVEK	SGAW	YSYNGD		295	
NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGA....V.KEGE	DEVVGS	ETRVK	VKNKV	APPFRA	AEFQILY	GKGIV	RNGEI	IDLG	VQQGL	VEK	SGAW	YAYKGS	295	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	RLDIRRIGQ....V.KEGE	DEIVG	SETKV	VVVKNK	MAPPFKE	AI	FQILY	GKGTN	QLGEL	VDL	AVQQ	DIVQ	KKAGAW	YSYQGN	295
NTDB id 1022 ACIAD RS06390 WP 004925639.1	RLDIRRIGQ....V.KEGE	DEIVG	SETKV	VVVKNK	MAPPFRA	EAFQILY	GKGV	NQLGEL	VDL	AVQQ	NIVQ	KKAGAW	YSYQGN	295	
consensus	!***!*	*	*	*	*****!***!!*****!*	*	*****!*!*****	*****	*	***	!	!*****!			

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NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAP.....AAPEAAEA.....	363
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NTDB id 159 SP RS09750 WP 001085462.1	KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
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NTDB id 453 Spy49 1753c ACI62003.1	KIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLNGIEIED.	378
NTDB id 115 BSU 16940 NP 389576.2	RLGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGRENAKKNYLADHEDVEDEVRLKVRAAYGISDVPPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
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NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGE..RPEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGE..RPEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGE..RPEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKLLREMLLNPENMQLIAETSSAADV.....EFGA..VPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKLLREMLLNPENMQLIAETSSAADV.....EFGA..VPEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGGKANAAYLEENPEIGQIEEQQIRAKLLVTSANTKATPVAEDLADA....D..I.....	347
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTGTNGAVQ.I.EDEEEP.....D..L..LLES.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEP.....D..L..LES.....	349
consensus	**!!!!***** ** ***** ***** ** *	

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NTDB	id	1313	DR	RS12030	WP	010888966.1	.	363
NTDB	id	600	KW2	RS01765	WP	011675413.1	.	387
NTDB	id	269	KZH43	RS08665	WP	001085462.1	E	388
NTDB	id	228	SPD	RS09265	WP	001085462.1	E	388
NTDB	id	194	SPR	RS08825	WP	001085462.1	E	388
NTDB	id	159	SP	RS09750	WP	001085462.1	E	388
NTDB	id	499	SM12261	RS08315	WP	078228268.1	E	384
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	E	384
NTDB	id	408	SMU	RS09530	WP	002262392.1	.	383
NTDB	id	453	Spy49	1753c	ACI62003.1	.	.	378
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NTDB	id	1214	NCTC11637	00359	SQJ03206.1	.	.	347
NTDB	id	1334	RAOC	RS04870	WP	004918236.1	.	343
NTDB	id	379100	FA582	RS10370	WP	010147796.1	.	340
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
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NTDB	id	1022	ACIAD	RS06390	WP	004925639.1	.	349
consensus								

- ☐ non conserved
- ☒ similar
- ☒ $\geq 50\%$ conserved