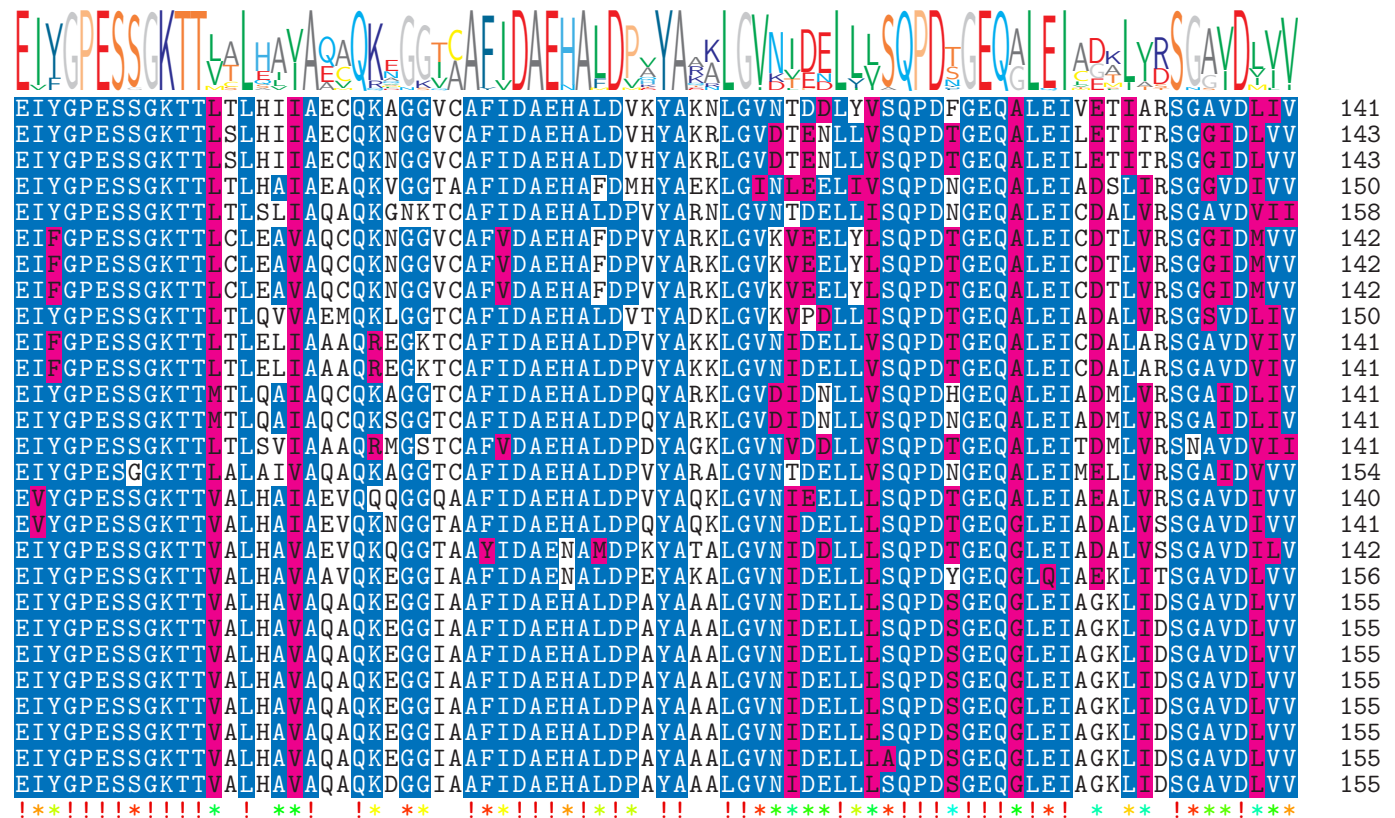


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NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAID	EDKQKATISLAIKQ	IDKVFGKGALVRLGDK	.QVEK	IDA	ISTGSLGLDLALGI	GGV	PKGRI	63	
NTDB id 1334 RAO C RS04870 WP 004918236.1	MAKTETTSPN	DDKKKALAAVLEK	LDKTYGKGTVMKLG	DGTVDHNI	IEV	IPSGSLGLDLALGV	GGY	PKGRIV	70	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVKKQVEP	EQKKQALEAALAQ	IEKQFGKGSIMKLGQT	.EQLD	IES	VSTGSLGLDLALGI	GGL	PMGRIV	78	
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NTDB id 1123 OK783 RS03845 WP 003688695.1	MS	DDKSKALAAALAQ	IEKSFGKGAIMKMDGSQ	QREEN	LEV	ISTGSLGLDLALGV	GGL	PRGRIV	62	
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAASMSA	EKKKALAAALAQ	IEKQFGKGSIMKMGDA	.EVEPVQV	VST	GSLGLDVALGV	GGL	PRGRVV	70	
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	MD	ENKQKALAAALGQ	IEKQFGKGSIMRLGDN	.RAMDVET	IST	GSLSLDIALGAGGL	PMGRIV		61	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MD	DNKSKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEAV	VST	GSLTLDIALGIGGL	PKGRIV		61	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MD	ENKSKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEAV	VST	GSLTLDIALGIGGL	PKGRI		61	
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NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQ	IEKQFGKGSIMKLGEK	.TDTR	IST	VPSGSLALDIALGI	GGY	PRGRIT	60	
NTDB id 351003 E2L09 RS12145 WP 010720621.1	MA	DDRKAALDAALKK	IEKNYGKGSIMKLGEK	.IDQV	VST	IPSGSLALDVALGV	GGY	PRGRIT	61	
NTDB id 625 LCA RS02525 WP 011374196.1	MAK	DERQAALDAALKK	IEKNFGKGSIMRMGEK	.VDTQ	VST	VSSGSLALDEALGV	GGY	PRGRIV	62	
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NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFG	DERKKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQV	MSSGSLALDIALGAGGY	PKGRIV			75	
consensus		*** **	*	***	***	***	***	***	***	

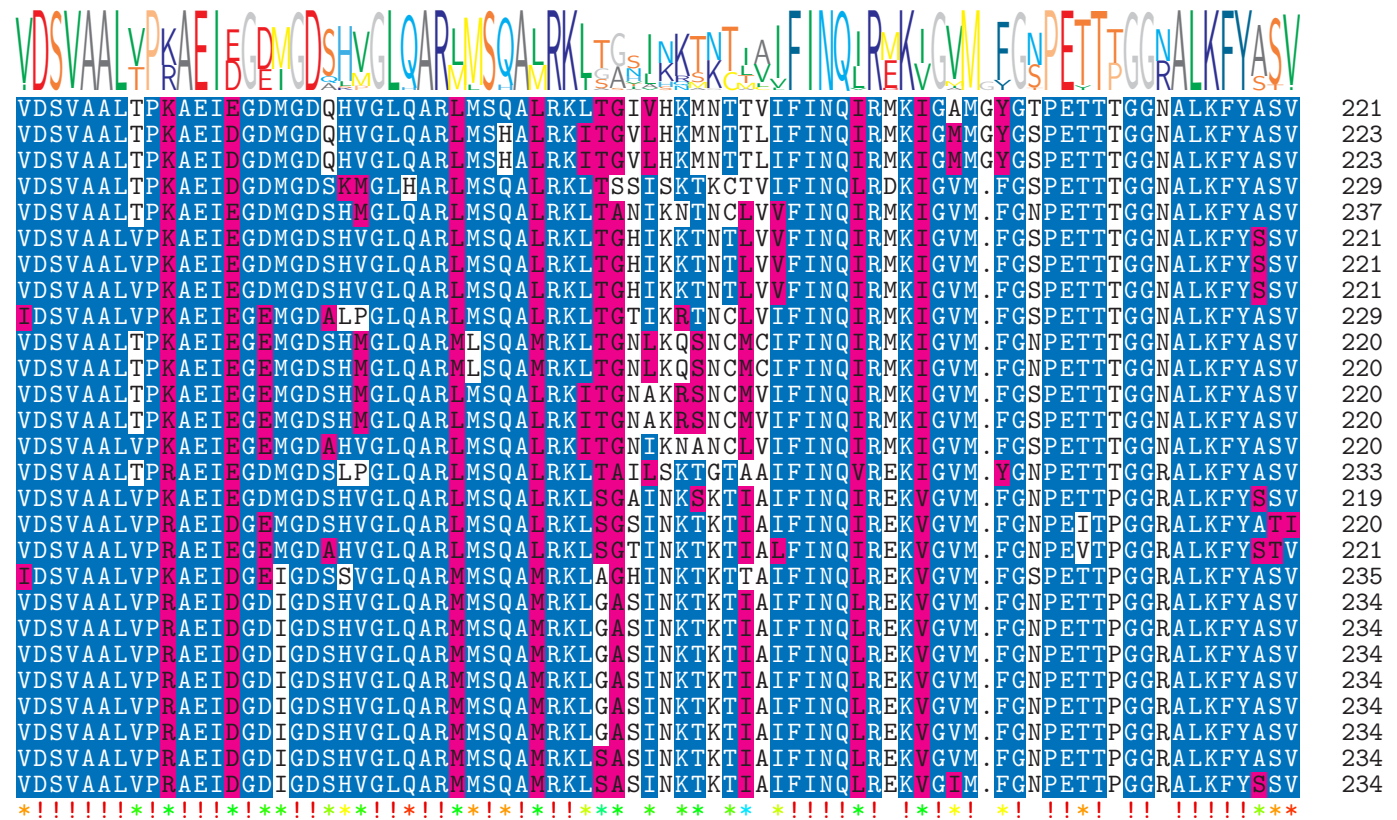
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NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
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NTDB id 1142 GTFT74 RS11550 WP 000344154.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1313 DR RS12030 WP 010888966.1
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NTDB id 351003 E2L09 RS12145 WP 010720621.1
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
consensus



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NTDB id 1245 Cj1673c YP 002345041.1
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consensus

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NTDB id 1214 NCTC11637 00359 SQJ03206.1	RDIRRIAA....L.KQNE	EQH	IGNRAK	AKVVKNKVAPPF	REAEF	DIMF	GEGIS	KEGEI	IDYGV	KLDIV	DKSGAW	LSYQDK	298			
NTDB id 1334 RAOCS04870 WP 004918236.1	RDIRRSLSDTGKIKDKSGE	VGN	ETRI	KVVKNKVAPPF	KSAEF	DIMY	GEGV	SKVGEI	LDVAT	DLDI	TQKSG	SWFSYQDT	309			
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCGV....V.KDG	DEI	IGSETK	VVVKNKVAPPF	REVQF	DIMY	GEGIS	RMNELL	ILAE	ANGFI	KKSGAW	FSYDGT	312			
NTDB id 1130 NGFG RS03960 WP 003688695.1	RLDIRRTGS....I.KKG	EEV	LGNETR	VKVIKNKVAPPF	RQAEF	DILY	GEGIS	WEGEL	IDIGV	KNDI	INKSGAW	YSYNGA	296			
NTDB id 1124 NGFG RS03960 WP 003688695.1	RLDIRRTGS....I.KKG	EEV	LGNETR	VKVIKNKVAPPF	RQAEF	DILY	GEGIS	WEGEL	IDIGV	KNDI	INKSGAW	YSYNGA	296			
NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRRTGS....I.KKG	EEV	LGNETR	VKVIKNKVAPPF	RQAEF	DILY	GEGIS	WEGEL	IDIGV	KNDI	INKSGAW	YSYNGA	296			
NTDB id 1427 RS RS02760 WP 011000510.1	RLDIRRIGS....I.KKG	DEV	VGNETK	VVVKNKVAPPF	REAFI	DILY	GAGV	SREGEI	IDLG	VEAKV	EKSGAW	YSYNGE	304			
NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRRTGA....I.KEG	EEV	VGNETR	IKVVKNK	IAAPF	KEANT	QIMY	GQGFN	REGEL	IDLGV	KHKM	VEKSGAW	YSYNGD	295		
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NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGA....V.KEG	DEV	VGSETR	VVVKNKVAPPF	RQAEF	QILY	GKGI	YRNGEI	IDL	GVQQ	GLVEK	SGAWY	AYKGS	295		
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NTDB id 115 BSU 16940 NP 389576.2	RLEVRRAEQLKQGN....DVM	GNTK	IKVVKNKVAPPF	RTAEV	DIMY	GEGIS	KEGEI	IDL	GTE	LDIV	VQKSG	SWSY	EEEE	294		
NTDB id 351003 E2L09 RS12145 WP 010720621.1	RLEVRRAEQLKQGT....DI	VGNRT	KIKVVKNKVAPPF	KIAEV	DVMY	GQGIS	QEGEL	LDMA	VEK	DIV	DKSGAW	YSYKED	295			
NTDB id 625 LCA RS02525 WP 011374196.1	RLEVRRAETIKNGT....DM	IGNRARI	KVVKNKVAPPF	KVAEV	DIMY	GQGIS	R	TGEL	VDMA	VEK	DI	INKSG	SWSY	YGSE	296	
NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRGSTKIEEGS.GDNKTQ	IGKIT	KIKVVKNKVAPPF	KVAL	V	DIMF	GEGIS	STGELL	NIA	VEE	GI	IKKSGAW	FAYNDE	314		
NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPF	KEAV	VEIMY	GEGIS	K	TGELL	KIAS	DL	DI	IKKAGAW	YSYKDE	313		
NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPF	KEAV	VEIMY	GEGIS	K	TGELL	KIAS	DL	DI	IKKAGAW	YSYKDE	313		
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPF	KEAV	VEIMY	GEGIS	K	TGELL	KIAS	DL	DI	IKKAGAW	YSYKDE	313		
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPF	KEAV	VEIMY	GEGIS	K	TGELL	KIAS	DL	DI	IKKAGAW	YSYKDE	313		
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consensus	!***!*	*	**	*****!***!!*!!*!!*	*	*****!*	*****	*****	***	***	! !*****!					

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NTDB id 1245 Cj1673c YP 002345041.1	KIGQGRENKSAFLKENPEIADEITKATQNSMGIEGMISGSEDD..EGEE.....	343
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	KLGGQRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDE..PLEEME.....	347
NTDB id 1334 RAO C RS04870 WP 004918236.1	KLGGGRDITVKELTKDNPELAEELEAKIREKLQAK.....	343
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NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET DGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET DGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGRDNCREFLRNENAEIAREIENKVRHLGVTPMGAVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGGKANACKY LKENPEIAKTLDKKLREMLLNPNMQLIAETSSAADDVEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGGKANACKY LKENPEIAKTLDKKLREMLLNPNMQLIAETSSAADDVEFGAVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEP DLL..ES.....	349
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NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADADI.....	347
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NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGS ENAKKYLA EHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKK.DE....PKKEEA..VNEEVPLDLGDELEIEI	386
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NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGS ENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKK.DE....AAQVDS..VNEEVTLDLGDELEIEI	382
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGS ENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLN GIEIED	378
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGS ENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED	383
consensus	**!!!!***** ** * *** ***** ** *	

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NTDB id 1214 NCTC11637 00359 SQJ03206.1	..	347
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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 1022 ACIAD RS06390 WP 004925639.1	..	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	..	349
NTDB id 1205 PSJM300 05545 AFN77183.1	..	347
NTDB id 1313 DR RS12030 WP 010888966.1	..	363
NTDB id 115 BSU 16940 NP 389576.2	..	348
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NTDB id 159 SP RS09750 WP 001085462.1	EE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EE	384
NTDB id 453 Spy49 1753c ACI62003.1	..	378
NTDB id 408 SMU RS09530 WP 002262392.1	..	383

consensus

 non conserved
 similar
 ≥ 50% conserved