

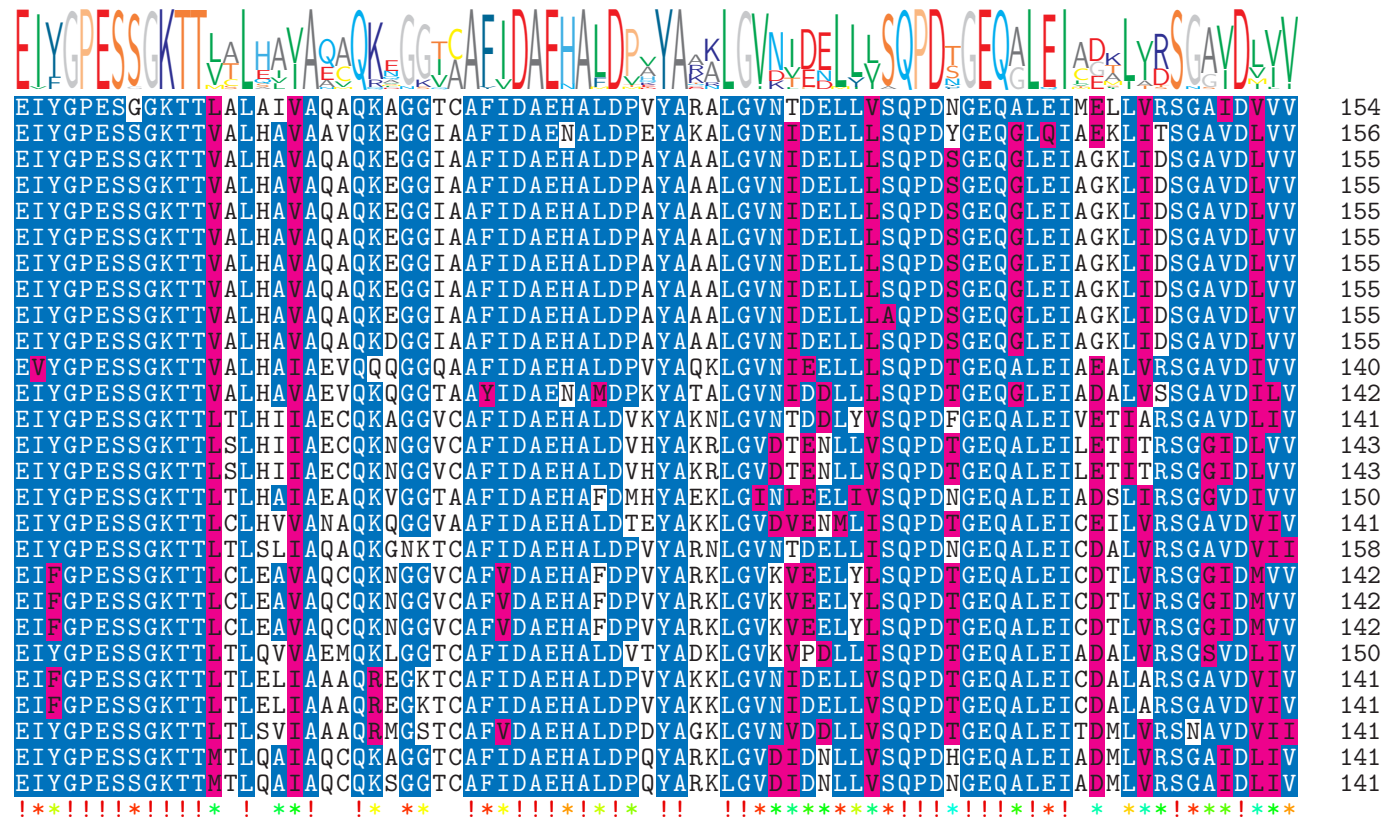
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NTDB id 1313 DR RS12030 WP 010888966.1	.MSKD...ATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRIT	74
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NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIV	75
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGRII	60
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIV	62
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQTDSIGTGSVGLDLALGIGGVPKGRII	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKALISLAIKQIDKVFVGKGAIVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRII	63
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKALISLAIKQIDKVFVGKGAIVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRII	63
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGYPKGRIV	70
NTDB id 33659 GAU RS09845 WP 343123138.1	MTDDKRKALALAVAQIEKSCGKGSIMRLGTD.AKVRVESIPTGAINLDAATIGVGGIPRGRVT	61
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRIV	78
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NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVV	70
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV	61
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRIV	61
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRII	61
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NTDB id 600 KW2 RS01765 WP 011675413.1
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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
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consensus

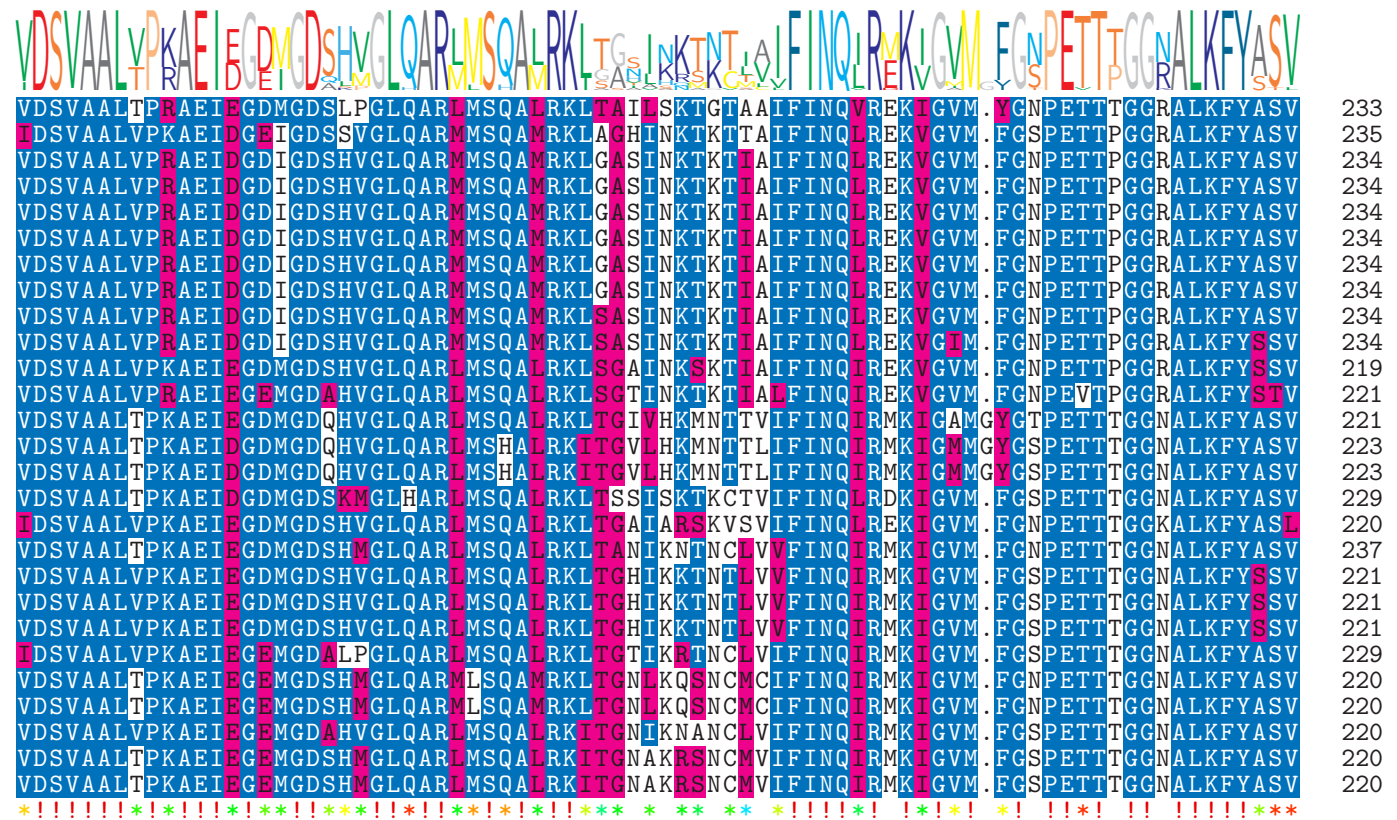
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NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIMY	GEGIS	KTGEL	LKIASD	LDII	KKAG	AWYSY	KDE	313				
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NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVEIMY	GEGIS	KTGEL	LKIASD	LDII	KKAG	AWYSY	KDE	313				
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NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIA...SL.KQNEQH	IGNRAK	AKVVKNKV	APPF	REAEFD	IMFGE	GISKEGE	IIDY	GV	KLDI	VDKSG	AWLSY	QDK	298			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIA...AL.KQNEQH	IGNRAK	AKVVKNKV	APPF	REAEFD	IMFGE	GISKEGE	IIDY	GV	KLDI	VDKSG	AWLSY	QDK	298			
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCG...VV.KDGEI	IGSE	TKVVVVKNKV	APPF	REVQFD	IMY	GEGIS	RMNELL	ILAE	ANGF	IKKSG	AWFSY	DGT	312			
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NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRRTG...SI.KKGEVL	GNETR	VKVI	KNKV	APPF	RQAEFD	DILY	GEGIS	WEGEL	IDIG	VKNDI	INKSG	AWSY	NGA	296		
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTG...AI.KEGEDEV	VGNETR	IKVVKNK	IAAPF	KEANTQ	IMYGG	GFNR	REGEL	IDL	GV	VKH	VMVEK	SGAW	SYNGD	295		
NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTG...AV.KEGEDEV	VGSE	TRV	VVVKNKV	APPF	RQAEF	QILY	GKGI	YRN	GEI	IDL	GV	QGL	VEKSG	AWAY	AYKGS	295
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consensus	!***!*	*	**	*****!***!!*!!*!!*	*	*****!***	*****	***	***	! !***!							

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NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIAYIAERPMEQEIIRDRVMAAIRAGNAGEAPALAPAPAA.....PEAAEA.....	363
NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLLDDSEVAETEEETTASKTAKAKKEEKAVETEEIELELED.....	387
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NTDB id 453 Spy49 1753c ACI62003.1	KIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEEESEESAMAVASE.....E.....TDDLALDLNGIEIED.	378
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NTDB id 115 BSU 16940 NP 389576.2	RLGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAETQEEL.EFE.E.....	348
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NTDB id 1245 Cj1673c YP 002345041.1	KLGGQGRENSKAFLEKENPEIADEITKAIQNSMGIEGMISGSEDDEGEE.....	343
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQKKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDESD.VEEFS.....EEEL.....	372
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQKKNNVIRYFEENNQIAEEIERNIREQLLTGTNGAVQ.I.EDEEFPD.LL..L.....ES.....	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
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NTDB id 194 SPR RS08825 WP 001085462.1	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	384
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	.	349

consensus

 non conserved
 similar
 ≥ 50% conserved