

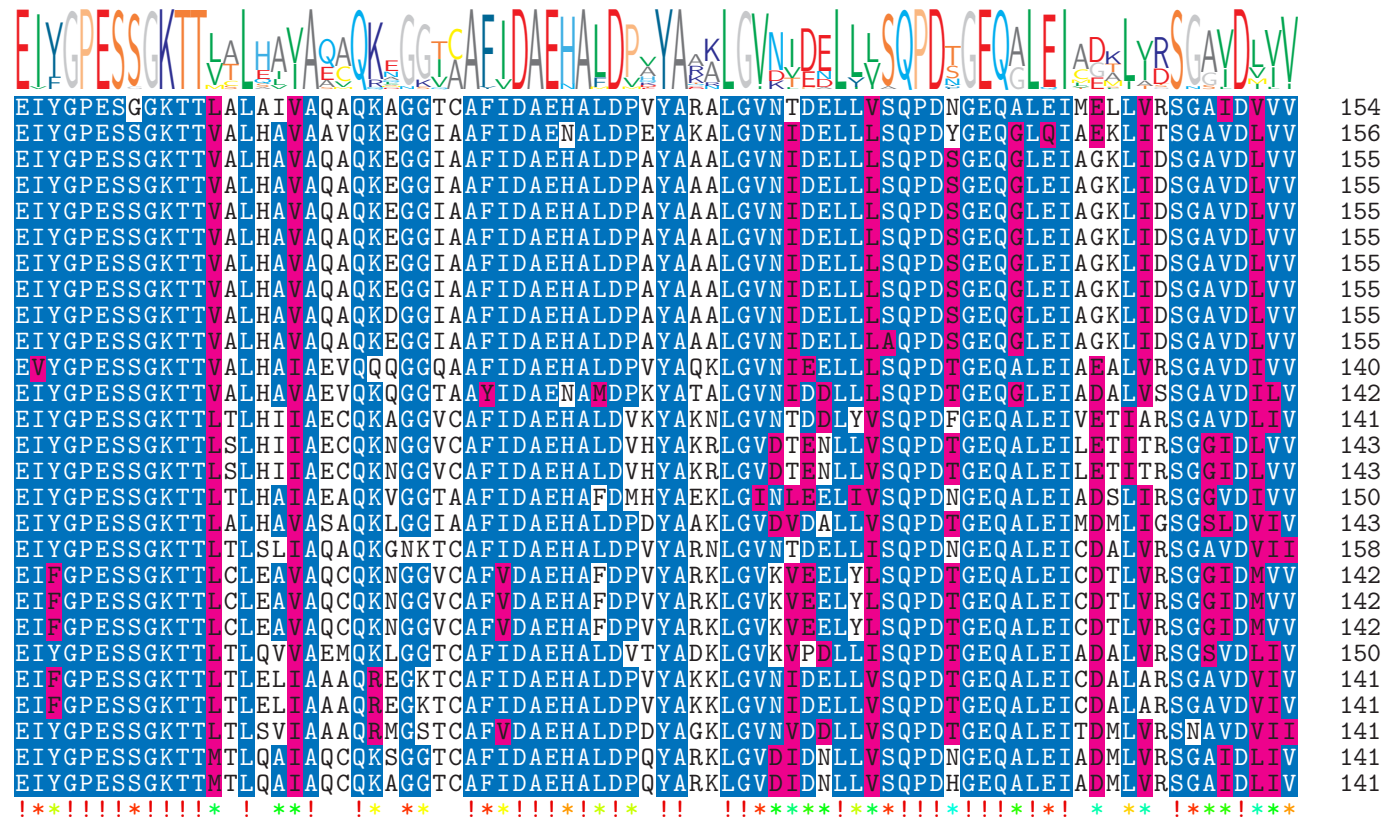
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NTDB id 1313 DR RS12030 WP 010888966.1	.MSKD...ATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRIT	74
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGAE.ANQKVSVVSSGSLALDIALGAGGYPKGRIV	76
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NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII	75
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NTDB id 625 LCA RS02525 WP 011374196.1	MAKD ERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIV	62
NTDB id 1245 Cj1673c YP 002345041.1	MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRII	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKALISLAIKQIDKVF GKGA LVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRII	63
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKALISLAIKQIDKVF GKGA LVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRII	63
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETTSPND DKKKALAAVLEKLDKT YGKGTVMKLG DGTVDHNI EVIPSGSLGLDLALGVGGYPKGRIV	70
NTDB id 156254 AOC05 RS04000 WP 062005882.1	MAAPA DREKALAAALAQIDKQ YGKGSIMRLGDE.VRAPIEVIPTGSI ALDVALGIGGLPRGRVV	63
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRIV	78
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSD DKSALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSD DKSALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSD DKSALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVV	70
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NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSI STGSLGLDIALGIGGLPKGRIV	61
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV	61
consensus	*** **	

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NTDB id 1313 DR RS12030 WP 010888966.1
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NTDB id 269 KZH43 RS08665 WP 001085462.1
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NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 408 SMU RS09530 WP 002262392.1
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
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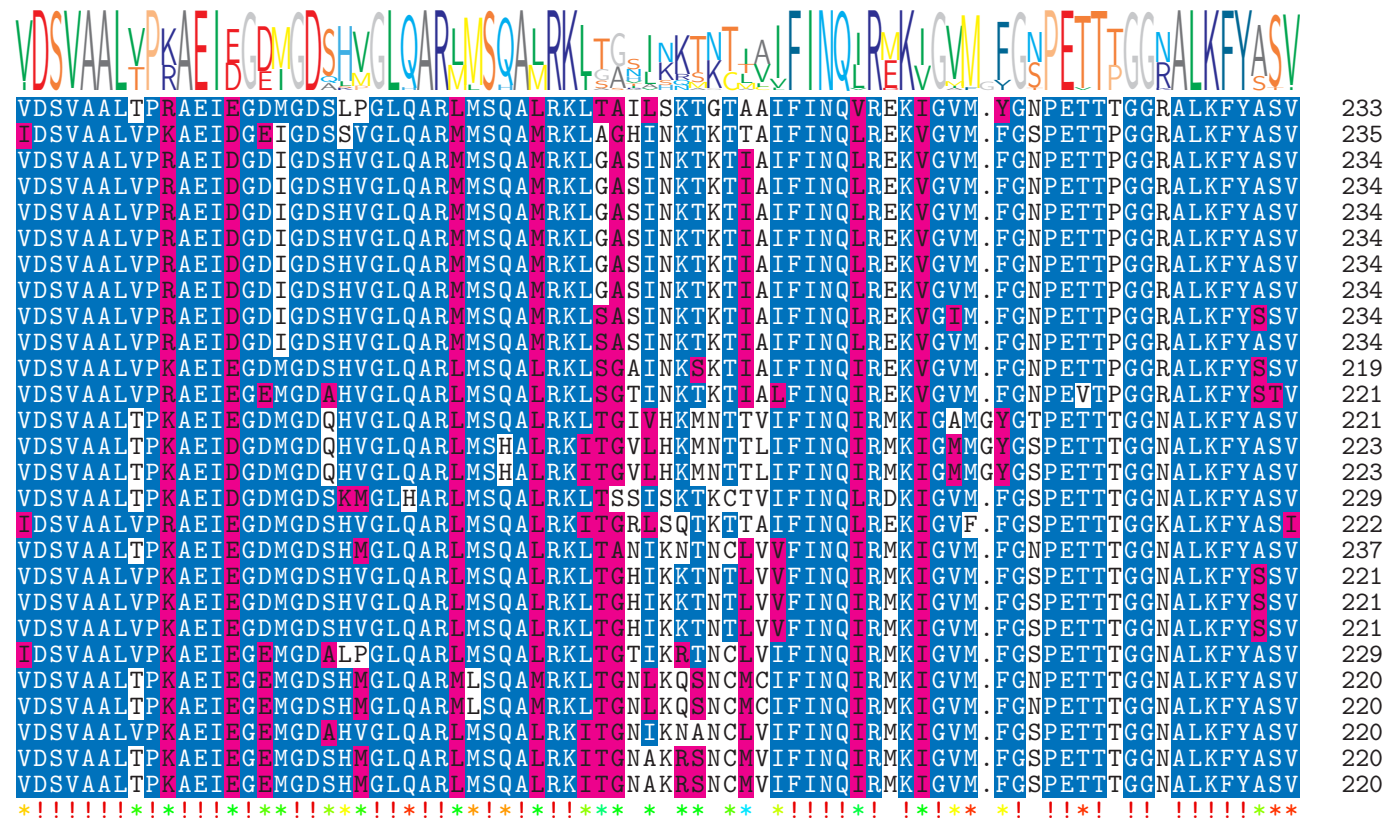
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consensus

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NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVEIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KDE	313	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVEIMY	GEGIS	KTGEL	LKIAS	DLDI	IKKAG	AWYSY	KDE	313	
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NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIAS....L.KQNE	EQHIGN	RAKAKVVKNKV	APPFRE	AEFDIM	FEGEGIS	KEGEI	IDY	GVKLD	IV	DKSG	AWLSYQDK	298	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNE	EQHIGN	RAKAKVVKNKV	APPFRE	AEFDIM	FEGEGIS	KEGEI	IDY	GVKLD	IV	DKSG	AWLSYQDK	298	
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRRTGA....I.KEG	EEVVG	NETRIKVVKNK	IAAPFKE	ANTQIMY	GQGF	NREGEL	IDL	GV	VKH	MMVEK	SGAWSYNGD	295	
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	RLDIRRIGQ....V.KEG	DEIVGS	ETKVVKNK	MAPPFK	EAIFQILY	GKGV	NQLGEL	VDL	AV	QQN	IVQK	AGAWYSYQGN	295	
consensus	!***!*	*	**	*****!***!!*!!*!!*	*	*****!*!***	*****	*	***	!	!*****!			

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NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAP.A.....APEAAEA.....	363
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NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
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NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGSSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED.	383
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGSSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEEESAMAVASE.....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 1124 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DG.....ERPEE.....	348
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKLLREMLLNPENMQLIAETSSAADVE.FG.....AVPEEF.....	354
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEDPD.....LLES.....	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	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
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NTDB	id	1074	ABD1	RS10195	WP	000344167.1	.	349
NTDB	id	1022	ACIAD	RS06390	WP	004925639.1	.	349
consensus								

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