

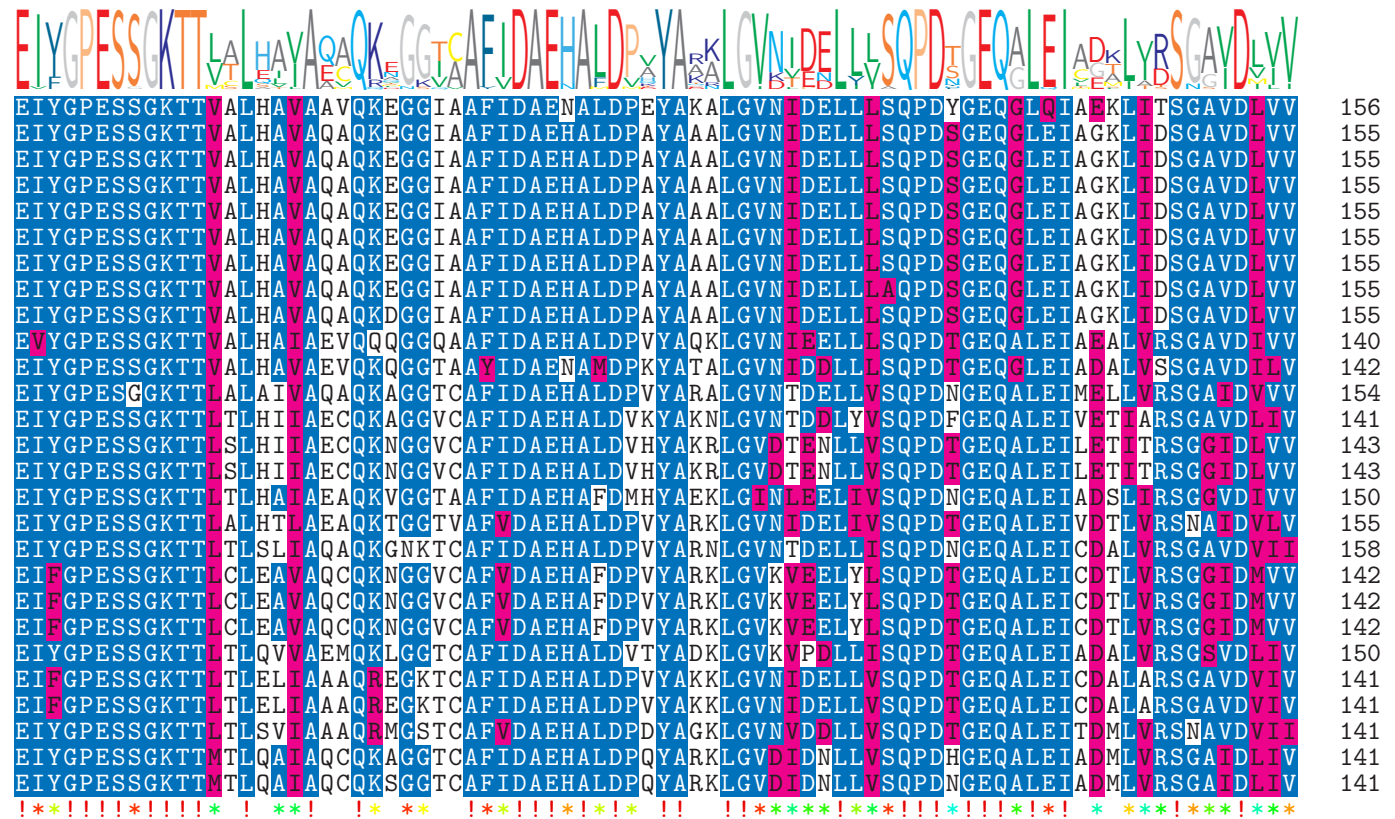
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGEA.ANQKVS	VSSGSLALDIALGAGGYPKGRIV	76	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQV	MSSGSLALDIALGSGGYPKGRIT	75	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQV	MSSGSLALDIALGSGGYPKGRIT	75	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQV	MSSGSLALDIALGSGGYPKGRIT	75	
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NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK...PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQV	MSSGSLALDIALGSGGYPKGRIT	75	
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NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDT	ALGIGGYPGRIT	60	
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDE	ALGVGGYPGRIV	62	
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD AKERSKATETAMSI EKAFGKGSIMKLGAE.SKLDVQVV	STGSLSLDLALGVGGIPGRIT	74	
NTDB id 1245 Cj1673c YP 002345041.1	MDDNKRKSLDAALKSLDKT FGKGTILRLGDK.EVEQIDSIGTGSVGLDL	ALGIGGVPKGRIT	61	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKALISLAIKQIDKVF GKGA LVRLGDK.QVEKIDAISTGSLGLDL	ALGIGGVPKGRIT	63	
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKALISLAIKQIDKVF GKGA LVRLGDK.QVEKIDSISTGSLGLDL	ALGIGGVPKGRIT	63	
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETTSPND DKKKALAAVLEKLDKT YGKGTVMKLG DGTVDHNI	EVIPSGSLGLDLALGVGGYPKGRIV	70	
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NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDL	ALGVGGLPRGRIV	62	
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDL	ALGVGGLPRGRIV	62	
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDI	ALGAGGLPMGRIV	61	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDI	ALGAGGLPMGRIV	61	
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSI	STGSLGLDIALGIGGLPKGRIV	61	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKS	KALQAALSQIEKQFGKNTVMRLGDN.TVQAVEA	VSTGSLTLDIALGIGGLPKGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKS	KALQAALSQIEKQFGKNTVMRLGDN.TVQAVEA	VSTGSLTLDIALGIGGLPKGRIT	61
consensus	* * * * *	* * * * * * * * * *	*	* * * * * * * * * * * * * * * * * * * *

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NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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NTDB id 625 LCA RS02525 WP 011374196.1
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NTDB id 1389 A4U84 RS07560 WP 021112712.1
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRG	STKIEEGS	.GDNKTQ	IGKITK	IKVVKN	KVAPPF	KVALV	DIMF	GEGIS	STGEL	INTAVE	EGIT	IKKS	GAWFAY	NDE	314			
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NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRS	LSDTGK	IKDKSGEV	IGNRT	TKV	VVKNKVAPP	F	KSAEFD	DIMY	GEGV	SKVGEILD	VATD	LDI	IKKSG	SWF	SYQDT	309		
NTDB id 162176 ATM17 RS06890 WP 054588302.1	RLDIRRT	G....	QI.KNG	DEIVG	NTTRV	VVKNKVAPP	F	KQVEF	DIMY	GQGIS	KIGEILD	IGV	KAGL	VEKSG	AWFSY	DSI	309		
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NTDB id 1124 NGFG RS03960 WP 003688695.1	RLDIRRT	G....	SI.KKG	EEVLGN	ETR	VKVIK	NKVAPP	F	RQAEF	DILY	GEGIS	WE	GELID	IGV	KNDI	INKSG	AWYSY	NGA	296
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NTDB id 1427 RS RS02760 WP 011000510.1	RLDIRRI	G....	SI.KKG	DEVVGN	ETKVV	VVKNKVAPP	F	REAI	F	DILY	GAGVS	REGEI	IDL	GV	EAKV	VEKSG	AWYSY	NGE	304
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consensus	!***!	*	*	*	*	***!***!!*!!*!!*	*	***!*	!***	***	***	***	***	***	!****				


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NTDB id 600 KW2 RS01765 WP 011675413.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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Sequence	Score
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KIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSE... QDTENKKDE... PKKEEA... VNEEVPLDLGDELE	383
KIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSE... QDTENKKDE... PKKEEA... VNEEVPLDLGDELE	383
KIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSE... QDTENKKDE... PKKEEA... VNEEVPLDLGDELE	383
KIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSE... QDTENKKDE... PKKEEA... VNEEVPLDLGDELE	383
KIGQGSSENAKKYLAENPEIFDEIDHQVRVQFGLIDGEEIAE... S... KKDE... AAQVDS... VNEEVTLDLGDLE	379
KIGQGSSENAKKYLAENPEVFAEIDHQVRVQFGLIDGEEAAE... S... KKDE... VAQVDS... VNEEVTLDLGDLE	379
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RLGQGRENAKQFLKENKDIMLMIQEQUIREHYGLDNGGVVQQ... QAEETQEEL.EFE.E...	348
RIGQGRENAKNYLADHEDVEDEVRLKVRAAAYGISDVPPEEDL... PTTEDE.QI.NILPDDST... EE...	355
RIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA...	363
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KLGGGRENAKALLKEDKALADEITLKIKESIGSNEEIMP... LP.DEPLE.EM.E...	347
KLGGGRENAKALLKEDKALADEITLKIKESIGSNEEIMP... LP.DEPLE.EM.E...	347
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KIGQKKANAACKYLEENPEIGQEIEQQIRAKLLVTSANTK... ATPVAEDLADA.DI...	347
KIGQKKNNVIRYLEENPQISTEIEAVIREQLLTKASDQT... AA.HDETEEEP.DLL... ES...	349
KIGQKKNNVIRYFENNQIAEIERNIREQLLTTGTNGA... VQ.I.EDEEEP.DLL... LES...	349

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		IEIEE	
NTDB id 600 KW2 RS01765 WP 011675413.1			387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEIEE		388
NTDB id 228 SPD RS09265 WP 001085462.1	IEIEE		388
NTDB id 194 SPR RS08825 WP 001085462.1	IEIEE		388
NTDB id 159 SP RS09750 WP 001085462.1	IEIEE		388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIEE		384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEIEE		384
NTDB id 453 Spy49 1753c ACI62003.1	IED..		378
NTDB id 408 SMU RS09530 WP 002262392.1	LED..		383
NTDB id 115 BSU 16940 NP 389576.2			348
NTDB id 625 LCA RS02525 WP 011374196.1			355
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NTDB id 1123 OK783 RS03845 WP 003688695.1			348
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NTDB id 1022 ACIAD RS06390 WP 004925639.1			349
NTDB id 1074 ABD1 RS10195 WP 000344167.1			349
consensus			

- ⓧ non conserved
- ✖ similar
- ⓧ ≥ 50% conserved