

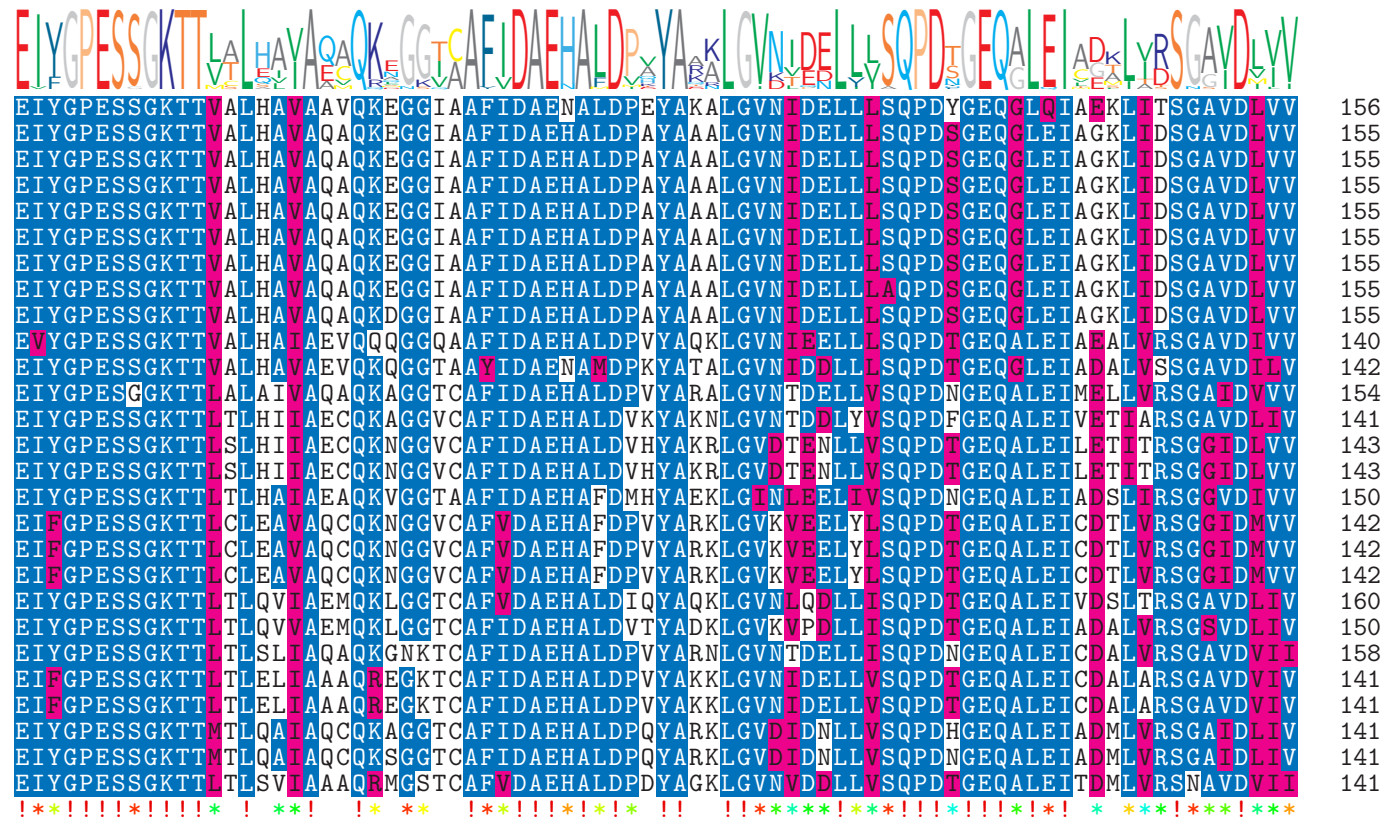
logo

NTDB id 600 KW2 RS01765 WP 011675413.1	..MA.TKKKTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGERAA.NQKVSVVSSGSLALDIALGAGGYPKGRIV	76
NTDB id 269 KZH43 RS08665 WP 001085462.1	...M.AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 228 SPD RS09265 WP 001085462.1	...M.AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 194 SPR RS08825 WP 001085462.1	...M.AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 159 SP RS09750 WP 001085462.1	...M.AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 527 SMSK321 RS11065 WP 001085454.1	...M.AKKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 499 SM12261 RS08315 WP 078228268.1	...M.AKKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 453 Spy49 1753c ACI62003.1	...M.AKKLKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGERA.EQKVQVMSSGSLALDIALGAGGYPKGRIT	75
NTDB id 408 SMU RS09530 WP 002262392.1	...M.AKRIKKTEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGERA.EQKVQVMSSGSLALDIALGAGGYPKGRIV	75
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEKT.DTRISTVPSGSLALDTALGIGGYPRGRIT	60
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEKV.DTQVSTVSSGSLALDEALGVGGYPRGRIV	62
NTDB id 1313 DR RS12030 WP 010888966.1	...MS..KDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAES.KLDVQVVSTGSLSLDLALGVGGIPRGRIT	74
NTDB id 1245 Cj1673c YP 002345041.1	MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIT	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKALSLAIAIKQIDKVFVGKGAIVRLGDKQ.VEKIDSISTGSLGLDLALGIGGVPKGRIT	63
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKALSLAIAIKQIDKVFVGKGAIVRLGDKQ.VEKIDAISTGSLGLDLALGIGGVPKGRIT	63
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETTSPNDKKKALAAVLEKLDKTYGKGTVMKLGDTGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIV	70
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFVGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFVGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFVGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 22598 BPRO RS23425 WP 011485555.1	MELTSKLNPAQNPVQTAALNTEKAKALQAALAQIEKQFGKGTIMKLGAGEVIEDIQVVSTGSLGLDLALGVGGLPRGRVV	80
NTDB id 1427 RS RS02760 WP 011000510.1	MEDGKKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDAE.VEPVQVVSTGSLGLDVALGVGGLPRGRVV	70
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQTE.QLDIESVSTGSLGLDLALGIGGLPMGRIV	78
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKKQKALAAALGQIEKQFGKGSIMRLGDN.R.AMDVETISTGSLSLDLIALGAGGLPMGRIV	61
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKKQKALAAALGQIEKQFGKGSIMRLGDN.R.AMDVETISTGSLSLDLIALGAGGLPMGRIV	61
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKKSKALQAALSQIEKQFGKNTVMRLGDNT.VQAVEAVSTGSLTLDIALGIGGLPKGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDNT.VQAVEAVSTGSLTLDIALGIGGLPKGRIT	61
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDHD.RQAIPSISTGSLGLDLIALGIGGLPKGRIV	61
consensus	*** **	

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NTDB id 600 KW2 RS01765 WP 011675413.1
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 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
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
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NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
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NTDB id 1142 GTF74 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
consensus

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logo

NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRG	STKIEEGS	.GDNKTQ	IGKI	TKIK	VVKNKV	VAPPF	KVALV	DIMF	GEGIS	STGEL	INIA	VEEG	IT	KKSG	AWF	AYNDE	314			
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NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	VAPPF	KEAVV	EIMY	GEGIS	KTGELL	KIASD	LDIT	IKKAG	AWYSY	KDE			313			
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	VAPPF	KEAVV	EIMY	GEGIS	KTGELL	KIASD	LDIT	IKKAG	AWYSY	KDE			313			
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKV	VAPPF	KEAVV	EIMY	GEGIS	KTGELL	KIASD	LDIT	IKKAG	AWYSY	KDE			313			
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NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKV	VAPPF	KEAFV	EIMY	GEGIS	KTGELL	KIASD	LDIT	IKKAG	AWYSY	KDE			313			
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NTDB id 625 LCA RS02525 WP 011374196.1	RLEVRRA	ETIKNGT		DMIGN	RARI	IKVVKNKV	VAPPF	KVAEV	DIMY	QG	GIS	RGTGEL	VDMA	VEKD	IINK	SG	SWSY	GSE	296		
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NTDB id 1245 Cj1673c YP 002345041.1	RLDVRK	VAT....	L.KQNE	EP	IGNRV	KV	VVKNKV	VAPPF	RQAEF	DVMF	GEG	LSR	EGEL	IDY	GV	KLDIV	DKSG	AWF	SYKDK	296	
NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRI	AS....	L.KQNE	QH	IGNRA	KA	VVKNKV	VAPPF	REAEF	DIMF	GEGIS	KEGE	IIDY	GV	KLDIV	DKSG	AWLSY	QDK		298	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRI	AA....	L.KQNE	QH	IGNRA	KA	VVKNKV	VAPPF	REAEF	DIMF	GEGIS	KEGE	IIDY	GV	KLDIV	DKSG	AWLSY	QDK		298	
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRS	LSDTG	KIKDKS	GEV	IGNRT	KV	VVKNKV	VAPPF	KS	AEF	DIMY	GEG	VSKV	GEILD	VAT	DL	DI	QKSG	SWF	SYQDT	309
NTDB id 1130 NGFG RS03960 WP 003688695.1	RLDIRR	TGS....	I.KKG	EEV	LGNET	RVKV	IKNKV	VAPPF	RQAEF	DILY	GEGIS	WE	GELID	IGV	KNDI	IINK	SG	AWSY	NGA	296	
NTDB id 1124 NGFG RS03960 WP 003688695.1	RLDIRR	TGS....	I.KKG	EEV	LGNET	RVKV	IKNKV	VAPPF	RQAEF	DILY	GEGIS	WE	GELID	IGV	KNDI	IINK	SG	AWSY	NGA	296	
NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRR	TGS....	I.KKG	EEV	LGNET	RVKV	IKNKV	VAPPF	RQAEF	DILY	GEGIS	WE	GELID	IGV	KNDI	IINK	SG	AWSY	NGA	296	
NTDB id 22598 BPRO RS23425 WP 011485555.1	RLDIRR	IGS....	I.KKG	EEV	IGNET	RV	VVKNKV	AS	PFKTA	AEF	DILY	GEGIS	RLGE	VLDL	GV	VAGH	IVEK	AGAW	AFNGE	314	
NTDB id 1427 RS RS02760 WP 011000510.1	RLDIRR	IGS....	I.KKG	DEV	VGN	ETKV	VVKNKV	VAPPF	RE	AIFD	DILY	GAGV	SREGE	IIDL	GV	EAKV	VVEK	SGAW	SYNGE	304	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRR	CGV....	V.KDG	DEI	IGSET	KV	VVKNKV	VAPPF	REVQF	DIMY	GEGIS	RMNELL	ILAE	ANGF	IINK	SGAW	F	SYDGT		312	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRR	TGA....	I.KEG	EEV	VGN	ETRI	KVVKNK	IA	APFKE	ANTQ	IMY	QGFN	REGEL	IDL	GV	VKHK	MVEK	SGAW	SYNGD	295	
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NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRR	TGA....	V.KEG	DEV	VGS	ETRV	VVKNKV	VAPPF	RQAEF	Q	I	LYGK	GIY	RNGE	IIDL	GV	VQQL	LVEK	SGAW	AYKGS	295
consensus	!***!*		*		*	*	*****!***!!*!!*!!*	*		*****!*	*****	*****	*****	*		***	!	!*****			

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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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Sequence	Score
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KIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTEN.KKDE.....PKKEEA..VNEEVPLDLGDEL	382
KIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTEN.KKDE.....PKKEEA..VNEEVPLDLGDEL	382
KIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTEN.KKDE.....PKKEEA..VNEEVPLDLGDEL	382
KIGQGS ENAKKYLADNPEVFAEIDHQVVRVQFLIDGEEAAE....S.KKDE.....VAQVDS..VNEEVTLDLGDEL	378
KIGQGS ENAKKYLADNPEIFDEIDHQVVRVQFLIDGEEIAE....S.KKDE.....AAQVDS..VNEEVTLDLGDEL	378
KIGQGS ENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVA.SE.....E.....TDDLALDLNGI	374
KIGQGS ENAKKFLADNPEIFDDIDHKVRVQYGLIEDNTEEKQSSK.EK.....ETDEK..ADKNLVLELDDTI	379
RLGQGR ENAKQFLKENKDIMLMIQEIQIREHYGLDNGVGVQQAEET.QEEL.EF....E.E.....	348
RIGQGR ENAKNYLADHEDVEDEVRLKVRVQYGLSDVPEEDLPTTED.E.QI.NI....LPDDST....EE.....	355
RIGQGR KETIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAA.....PEAAEA.....	363
KLGGGR ENSKAFLKENPEIADEITKAIQNSMTEGMISGS..EDDEGEE.....	343
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KLGGGR ENAKALLKEDKALADEITLKIKESIGSNEEIMPL..PDEPLEEME.....	347
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KIGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTA..A.HDETEEEPDL..L..ES.....	349
KIGQGKNNVIRYFEENNQIAEIEIERNIREQLLTTGTNGAV..Q.I.EDEEEEPDL..L..LES.....	349
KIGQGKANAAKYLEENPEIQGEIEQQIRAKLLVTSANTKA..TPVAEDLADADI.....	347

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	E	I	E	E	E	
NTDB id 600 KW2 RS01765 WP 011675413.1						387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEIEE					388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEIEE					388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEIEE					388
NTDB id 159 SP RS09750 WP 001085462.1	EIEIEE					388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEIEE					384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEIEE					384
NTDB id 453 Spy49 1753c ACI62003.1	EIED..					378
NTDB id 408 SMU RS09530 WP 002262392.1	ELED..					383
NTDB id 115 BSU 16940 NP 389576.2						348
NTDB id 625 LCA RS02525 WP 011374196.1						355
NTDB id 1313 DR RS12030 WP 010888966.1						363
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NTDB id 1211 C694 RS00795 WP 000963128.1						347
NTDB id 1214 NCTC11637 00359 SQJ03206.1						347
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NTDB id 1130 NGFG RS03960 WP 003688695.1						348
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NTDB id 22598 BPRO RS23425 WP 011485555.1						377
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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 1205 PSJM300 05545 AFN77183.1						347
consensus						

-  non conserved
-  similar
-  ≥ 50% conserved