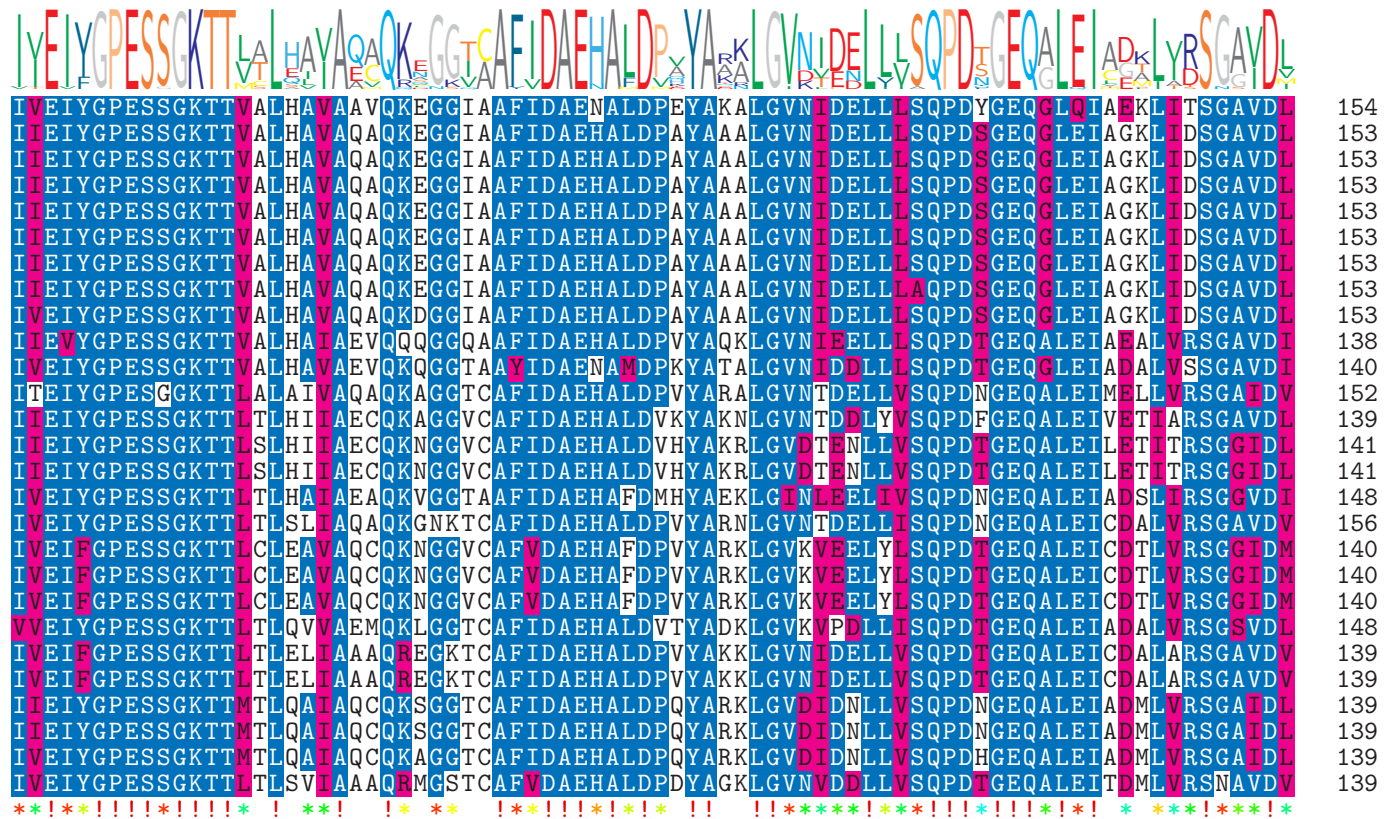


logo

NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALD	I	ALGAGGY	PKGR	74				
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73				
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73				
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73				
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73				
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73				
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFG	DERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQV	MSSGSLALD	I	ALGAGGY	PKGR	73				
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFG	DERKKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQV	MSSGSLALD	I	ALGAGGY	PKGR	73				
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALK	QIEKQFGKGSIMKLGEK	.TDTRI	STVPSGSLALD	T	ALGIGGY	PRGR		58				
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDA	ALKKIEKNFGKGSIMRMGEK	.VDTQV	STVSSGSLALDE	A	LGVGGY	PRGR		60				
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERSKATETAMSQIEKA	FGKGSIMKLGAE	.SKLDVQV	VSTGSLSLD	I	ALGVGG	IPRGR	72				
NTDB id 1245 Cj1673c YP 002345041.1	MDDNKRKSLDA	ALKSLDKTIFGKGTILRLGDK	.EVEQIDS	IGTGSVGLD	I	ALGIGG	VPKGR		59				
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKAIISLA	IKQIDKVF	FGKGALVRLGDK	.QVEKIDA	ISTGSLGLD	I	ALGIGG	VPKGR	61				
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKAIISLA	IKQIDKVF	FGKGALVRLGDK	.QVEKIDE	ISTGSLGLD	I	ALGIGG	VPKGR	61				
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTS	PNDKKKALA	AVLEKLDKTYGKGTVMKLG	DGTVDHNI	EVIPS	GSGLGLD	I	ALGVGG	YPKGR	68			
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEP	EQKKQALEAALAQIEKQ	FGKGSIMKLGQT	.EQLDIES	VSTGSLGLD	I	ALGIGGL	PMGR	76				
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAAL	AQIEKS	FGKGAIMKMDGS	Q	Q	EENLE	VIST	GSGLGLD	I	ALGVGGL	PRGR	60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAAL	AQIEKS	FGKGAIMKMDGS	Q	Q	EENLE	VIST	GSGLGLD	I	ALGVGGL	PRGR	60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAAL	AQIEKS	FGKGAIMKMDGS	Q	Q	EENLE	VIST	GSGLGLD	I	ALGVGGL	PRGR	60	
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAAS	MSAEKQKALAAAL	AQIEKQFGKGSIMKMDA	.EVEPVQV	VSTGSLGLD	V	ALGVGGL	PRGR	68				
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAAL	GQIEKQFGKGSIMRLGDN	.RAMDVET	I	TGSLSLD	I	ALGAGGL	PMGR	59				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAAL	GQIEKQFGKGSIMRLGDN	.RAMDVET	I	TGSLSLD	I	ALGAGGL	PMGR	59				
NTDB id 172298 AYR69 RS07665 WP 000344169.1	MDENKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEA	V	TGSLTLD	I	ALGIGGL	PKGR	59				
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEA	V	TGSLTLD	I	ALGIGGL	PKGR	59				
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEA	V	TGSLTLD	I	ALGIGGL	PKGR	59				
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAAL	GQIEKQFGKGAVMR	MDH	.DRQAIPS	I	TGSLGLD	I	ALGIGGL	PKGR	59			
consensus	***	***	*	***!	***!	***!	*	***!	***!	***!	***!	***!	***!

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
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
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NTDB id 1214 NCTG11637 00359 SQJ03206.1
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NTDB id 1334 RAOC RS04870 WP 004918236.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



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NTDB id 1334 RAOC RS04870 WP 004918236.1
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NTDB id 1130 NGFG RS03960 WP 003688695.1
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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

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Sequence	Score
DEKIGGGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEE.TTASKTK..AKAKKEEKAVETEEIELELED..	387
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DEKIGGGSSENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTE.NKKDE.....PKKEEA..VNEEVPLDLGDEL	382
DEKIGGGSSENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTE.NKKDE.....PKKEEA..VNEEVPLDLGDEL	382
DEKIGGGSSENAKKYLAADNPVFAEIDHQVRVQFGLIDGEEAAE.....SKKDE.....VAQVDS..VNEEVPLDLGDEL	378
DEKIGGGSSENAKKYLAADNPVFEIDHQVRVQFGLIDGEEIAE.....SKKDE.....AAQVDS..VNEEVPLDLGDEL	378
GEKIGGGSSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAV.ASE.....E.....TDDLALDLNGI	374
GEKIGGGSSENAKKFLADNPVFEIDHKVVRVQGLIEEDNTEEKQSS.KEK.....ETDEK..ADKNLVLELDDTI	379
EERLGGGRENAAKQFLKENKDIMLMIQEQUIREHYGLDNGGVVQQAAE.TQEEL.E..FE.E.....	348
SERIGGGSRENAAKRYLADHEDVEDEVRLKVRVQGLSDVPEEDLPSTE.DE.QI.N..ILPDDST.....EE.....	355
DERIGQGKEKTIAYIAERPMEQETIDRVMAAIRAGNAGEAPALAPAPAPEAAEA	363
DKKLGGGRENKAFLENKEPEIADEITKAIQNSMGTIEGMISGS..EDDEGE..E.....	343
DKKLGGGRENAAKALLKEDKALADEITLKIKESIGSNEEIMPL..PDEPLE..EME.....	347
DKKLGGGRENAAKALLKEDKALADEITLKIKESIGSNEEIMPL..PDEPLE..EME.....	347
DTKLGGGRDTPVKELIKDNPELAEELEAKIREKLQAK	343
GTKIGQGKNNNAVKWLKENPEIADKLEQIRNTLASNPNSVLK..ATASDSNDVSDVEEFSE.....EEL.....	372
GAKIGGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEG..TQDET.....GERPE.....E.....	348
GAKIGGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEG..TQDET.....GERPE.....E.....	348
GAKIGGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEG..TQDET.....GERPE.....E.....	348
GERIGGGRDNCREFLRNAAELAREIENKVRHLGVTPMGAV..TLAEEVEED.....	352
GDKIGQGKANACKYLKENPEIAKTLKKLREMLLNPNMQLI..AETSSAADVVEFGAVPE.....EF.....	354
GDKIGGQKANACKYLKENPEIAKTLKKLREMLLNPNMQLI..AETSSAADVVEFGAVPE.....EF.....	354
GNKIGGQKNNVIRYFEENTQIAEEIERNIREQLLTGTNGAV..Q.I.EDEEPPD..LLE.....S.....	349
GNKIGGQKNNVIRYFEENNQIAEEIERNIREQLLTGTNGAV..Q.I.EDEEPPD..LLE.....S.....	349
GNKIGGQKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTA..A.HDETEEPPD..LLES.....	349
GSKIGGQKANAAKYLENPEIQEIEQQIRAKLLVTSANTKA..TPVAEDLADAD..I.....	347

logo

	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
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NTDB id 1214 NCTC11637 00359 SQJ03206.1						347
NTDB id 1211 C694 RS00795 WP 000963128.1						347
NTDB id 1334 RAOC RS04870 WP 004918236.1						343
NTDB id 1389 A4U84 RS07560 WP 021112712.1						372
NTDB id 1130 NGFG RS03960 WP 003688695.1						348
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NTDB id 1022 ACIAD RS06390 WP 004925639.1						349
NTDB id 1205 PSJM300 05545 AFN77183.1						347
consensus						

-  non conserved
-  similar
-  ≥ 50% conserved