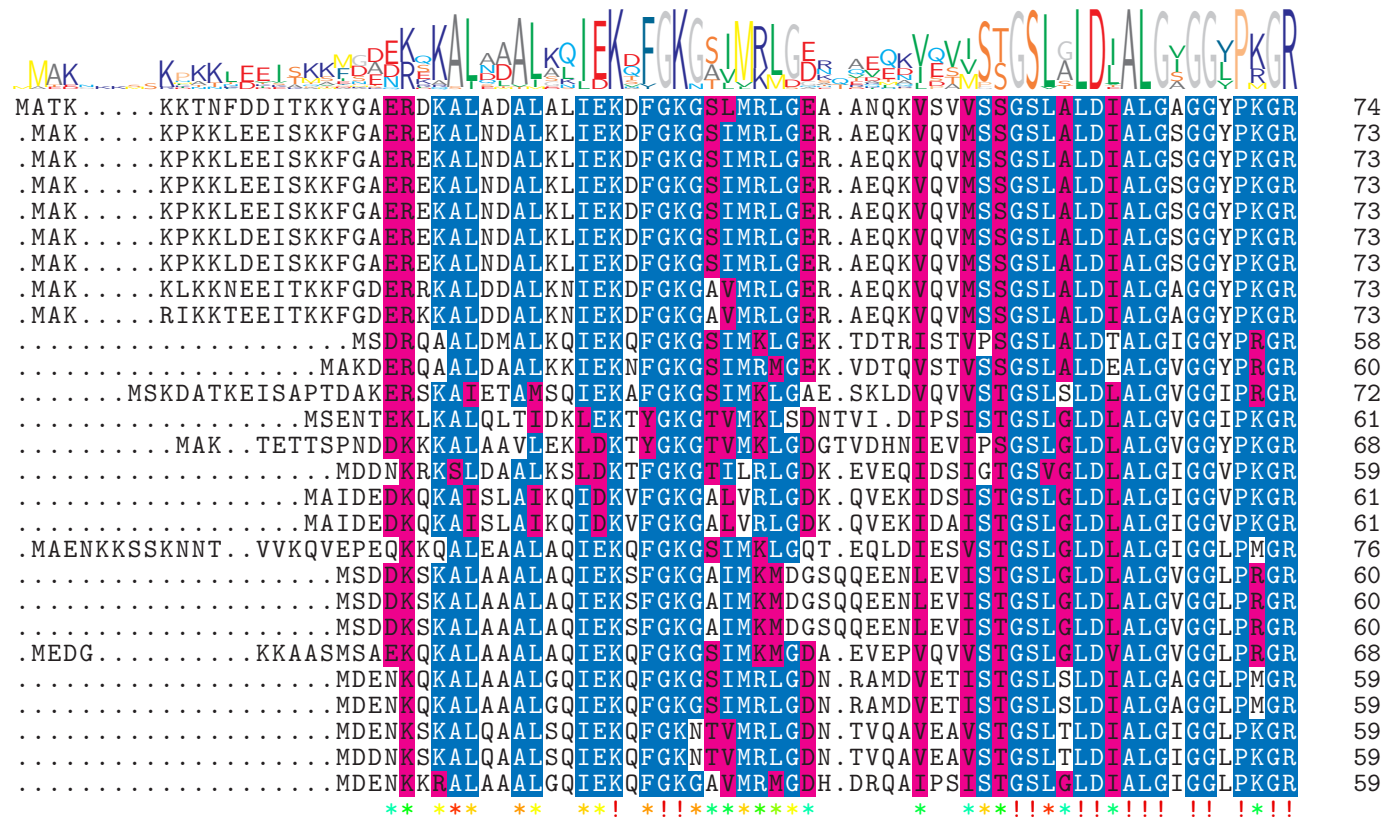


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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
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NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
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NTDB id 1130 NGFG RS03960 WP 003688695.1
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NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

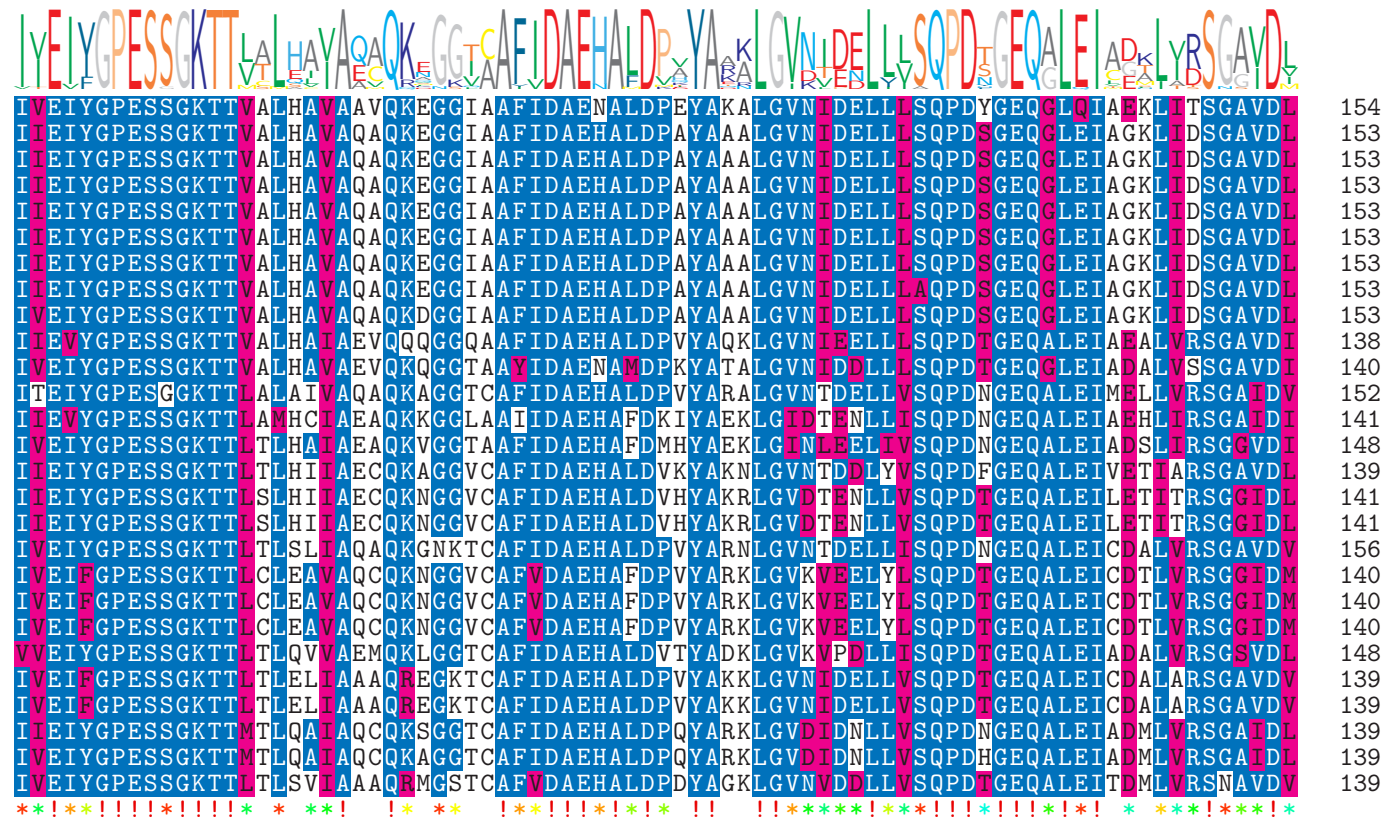
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRG...STKIEEGSGDNKTQIGKIKTKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGLIKKSGAWF	309
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRG...NTQIKGTGDQKETNVGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWY	308
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NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRG...NTQIKGTGDQKETNVGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWY	308
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRG...NTQIKGTGDQKETNVGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWY	308
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRG...STQIKGTGDQKDTNVGKETKIKVVKNKVAPPFKAEAFVEIMYGEGISKTGELLKIASDLDIKKAGAWY	308
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NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRG...NTQIKGTGEQKDSNIGKETKIKVVKNKVAPPFKAEAFVEIYEGEGISRTGELVKIASDLGIIQKAGAWY	308
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRR...AEQLKQGN...DVMGNKTKIKVVKNKVAPPFRTAEVDDIMYGEGISKEGEIIDLGTELDIVQKSGSWY	289
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRR...AETIKNGT...DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDIINKSGSWY	291
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRK...IGQPTKV...GNDVANTVKKIKTVKNKVAAPFKEVELALVYGKGFQDLSDLVGLAADMDIINKAGSFY	304
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NTDB id 1334 RAO RS04870 WP 004918236.1	SVRLDIRRSLSDTGKIKDK...SGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEVSKVGEILDVATDLDIQKSGSWF	304
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NTDB id 1211 C694 RS00795 WP 000963128.1	SVRLDIRR...IASLKQ...NEQHIGNRAKAKVVKNKVAPPFRQAEEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWL	293
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRLDIRR...IAALKQ...NEQHIGNRAKAKVVKNKVAPPFRQAEEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWL	293
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRR...CGVVKD...GDEIIGSETKVKVVKNKVAPPFRQAEFDIMYGEGISRMNELLILAEANGFIKKSGAWF	307
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRR...TGSIKK...GEEVLGNETRVKVKIKNKVAPPFRQAEEFDILYGEGISWEGELIDIGVKNDIINKSGAWY	291
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NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRR...TGSIKK...GEEVLGNETRVKVKIKNKVAPPFRQAEEFDILYGEGISWEGELIDIGVKNDIINKSGAWY	291
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRR...IGSIIKK...GDEVVGNETKVKVVKNKVAPPFRQAEEFDILYGAGVSREGEIIDLGVEAKVVEKSGAWY	299
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRR...TGAIKE...GEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWY	290
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRR...TGAIKE...GEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWY	290
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRR...IGQVKE...GDEIVGSETKVKVVKNKMAPPFKAEAFQILYGKGTNQLGELVDLAVQQDIVQKAGAWY	290
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRR...IGQVKE...GDEIIGSETKVKVVKNKMAPPFKAEAFQILYGKGVNQLGELVDLAVQQDIVQKAGAWY	290
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRR...TGAVKE...GDEVVGSETRVKVVKNKVAPPFRQAEEFDILYGKGIYRNGEIIDLGVQQGLVEKSGAWY	290
consensus	*!!**!* ** * ** **!!*!!*!!*! * ** **!!*!!*!!* ** ** ** ** ! !**	

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NTDB id 600 KW2 RS01765 WP 011675413.1	AYNDEKIGQGA	EKAKNYLKEHQDV	FDEIDHKVRAAHGL	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETEEIELELED..	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	SYKDEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA..	VNEEVPLDLGDEL	382
NTDB id 228 SPD RS09265 WP 001085462.1	SYKDEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA..	VNEEVPLDLGDEL	382
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NTDB id 159 SP RS09750 WP 001085462.1	SYKDEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA..	VNEEVPLDLGDEL	382
NTDB id 499 SM12261 RS08315 WP 078228268.1	SYKDEKIGQGS	ENAKKYLA	DNPEIF	DEIDHQVRVQFGL	IDGEEIAES....KKDE....	AAQVDS..VNEEVTLDLGDEL	378
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NTDB id 453 Spy49 1753c ACI62003.1	SYNGEKIGQGS	ENAKRYLA	DHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAVASE.....	E.....TDDLALDLNGI	374
NTDB id 408 SMU RS09530 WP 002262392.1	SYNGEKIGQGS	ENAKKFLA	DNPEIF	DDIDHKVRVQYGL	IEEDNTEEKQSSKEK.....	ETDEK..ADKNLVLELDDTI	379
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NTDB id 1313 DR RS12030 WP 010888966.1	SYGDER	RIGGKEKTIA	YTAERP	PEMEQEIRDRVMAAIRAGNAGEAPALAPAPA	AAPEAAEA.....		363
NTDB id 51967 JL001 RS00190 WP 200974167.1	SYEGN	KLGGGRDAV	KNLLLDNPELME	ELENKIKAKSG	INGVVE....EVAED.....		341
NTDB id 1334 RAO RS04870 WP 004918236.1	SYQDT	KLGGGRDTV	KELIKDNPELA	EELEAKIREKLQAK			343
NTDB id 1245 Cj1673c YP 002345041.1	SYKDK	KLGGGREN	SKAFLKENPEIA	DEITKAIQNSMG	TEGMIS.....GSEDDE..GEE.....		343
NTDB id 1211 C694 RS00795 WP 000963128.1	SYQDK	KLGGGREN	AKALLKEDKAL	ADEITLKI	KESIGSNEEIM.....PLPDEP..LEEME.....		347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SYQDK	KLGGGREN	AKALLKEDKAL	ADEITLKI	KESIGSNEEIM.....PLPDEP..LEEME.....		347
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SYDGT	KIGQGNNA	AVKWLKENPEIA	DKLEQEI	RNTLASNPNSV.....LKATASDSNDESD..VEEFSEEEL.....		372
NTDB id 1130 NGFG RS03960 WP 003688695.1	SYNGAK	IGQKDNVR	VWLKENPEIS	DEIDAKIRAL	NGVEMHIT.....EGTQDET.....GERPEE.....		348
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NTDB id 1427 RS RS02760 WP 011000510.1	SYNGER	RIGQGRDNC	REFLRENAEL	AREIENKVREHLG	VTPMGA....V.TLAE	EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SYNGD	KIGQKAN	ACKYLYKENPEIA	KTLDKKLREMLLN	PENMQ....LIAETSSA	ADDVE..FGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SYNGD	KIGQKAN	ACKYLYKENPEIA	KTLDKKLREMLLN	PENMQ....LIAETSSA	ADDVE..FGAVPEEF.....	354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SYQGN	KIGQGN	NVIRYFEENN	QIAEEIERN	IREQLLTTGTNG....AVQ.I.EDEE	EPD...LLES.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SYQGN	KIGQGN	NVIRYLEEN	PQISTEIEAV	IREQLLTKASDQ....TAA.HDETEE	EPD...LLES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	AYKGS	KIGQKAN	AAKYLYLENPEI	IGQIEEQ	IRAKLLVTSANT....KATP	VAEDLADAD....I.....	347
consensus	*!	**!!!!*****	* * *****	*****	*****	* *	* *

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NTDB id 600 KW2 RS01765 WP 011675413.1						387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEIEE					388
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consensus						

-  non conserved
-  similar
-  ≥ 50% conserved