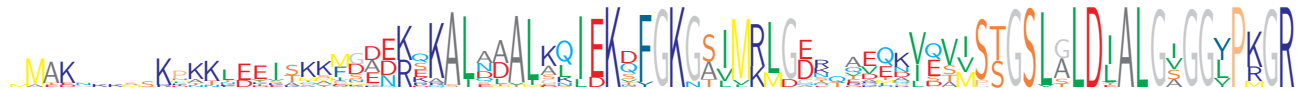


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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....KKTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGER	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....KPKKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK.....KPKKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	ALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFGD	ERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSS	GSLALDI	ALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....RIKKTEEITKKFGD	ERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSS	GSLALDI	ALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....MS	DRQAALDMALKQ	IEKQFGKGSIMKLG	IEK.TDTRISTV	PSGSLALDI	TALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKD	ERQAALDAALKK	IEKNFGKGSIMRM	GEK.VDTQVSTV	SSGSLALDE	ALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAP	TDAKERSKATET	AMSQIEKAFGKGS	IMKLGAE.SKLDV	QVVSTGSLSLD	LALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDN	KRKSALDAALKS	LDKTFGKGTILRL	GDK.EVEQIDS	IGTGSVGLD	LALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDE	DKQKATISLAI	IKQIDKVF	FGKALVRLGDK.QVEKIDS	ISTGSLGLD	LALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDE	DKQKATISLAI	IKQIDKVF	FGKALVRLGDK.QVEKIDA	ISTGSLGLD	LALGIGGVPKGR	61
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNT.VVKQVEPE	QKKQALEAALA	QIEKQFGKGS	IMKLGQT.EQLDIES	VSTGSLGLD	LALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1MSD	DKSKALAAALA	QIEKSFGKGA	IMKMDGSQ	QEEENLEVIST	GSLGLD	LALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1MSD	DKSKALAAALA	QIEKSFGKGA	IMKMDGSQ	QEEENLEVIST	GSLGLD	LALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1MSD	DKSKALAAALA	QIEKSFGKGA	IMKMDGSQ	QEEENLEVIST	GSLGLD	LALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAASMSA	EKQKALAAALA	QIEKQFGKGS	IMKMGDA.EVEPV	QVVSTGSLGLD	VALGVGGLPRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDEN	KQKALAAALGQ	IEKQFGKGS	IMRLGDN.RAMDVET	ISTGSLSLDI	ALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDEN	KQKALAAALGQ	IEKQFGKGS	IMRLGDN.RAMDVET	ISTGSLSLDI	ALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDN	KSALQAALSQ	IEKQFGKNTVM	RLGDN.TVQAVEAV	STGSLTLDI	ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDEN	KSALQAALSQ	IEKQFGKNTVM	RLGDN.TVQAVEAV	STGSLTLDI	ALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDEN	KKRALAAALGQ	IEKQFGKGAV	MRMGDH.DRQAI	PSISTGSLGLDI	ALGIGGLPKGR	59
NTDB id 79188 K002 RS02555 WP 038695581.1	.....MSNP	DKLKALQLTLDK	LEKSYGKGA	IMKLGDTTVD.PI	ESISTGSLGLDI	ALGIGGVPKGR	60
NTDB id 1334 RAOC RS04870 WP 004918236.1MAK..TETTSPND	DKKALAAVLEK	LDKTYGKGTVM	KLGDGTVDHNI	IEVIPS	GSLGLD	LALGVGGYPKGR	68
consensus		*** **	*** **!	***!*****	*	***!***!***!***!***!***!***!		

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NTDB id 600 KW2 RS01765 WP 011675413.1	FAYNDEKIGQGA	EKAKNYLKEHQ	DV	FDEIDHKVRAAHGI	LDDSEVAETEEETT	ASKTKAKAKKKEEKAVETEEIELELED.	387				
NTDB id 269 KZH43 RS08665 WP 001085462.1	YSYKDEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENKKDE	...PKKEEA	.VNEEVPLDLGDE	381				
NTDB id 228 SPD RS09265 WP 001085462.1	YSYKDEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENKKDE	...PKKEEA	.VNEEVPLDLGDE	381				
NTDB id 194 SPR RS08825 WP 001085462.1	YSYKDEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENKKDE	...PKKEEA	.VNEEVPLDLGDE	381				
NTDB id 159 SP RS09750 WP 001085462.1	YSYKDEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENKKDE	...PKKEEA	.VNEEVPLDLGDE	381				
NTDB id 499 SM12261 RS08315 WP 078228268.1	YSYKDEKIGQGS	ENAKKYLADNPEIF	DEIDHQVVRVQFGL	LIDGEEIAES	...KKDE	...AAQVDS	.VNEEVTLDLGDE	377			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	YSYKDEKIGQGS	ENAKKYLADNPEVFAE	IDHQVVRVQFGL	LIDGEEAAES	...KKDE	...VAQVDS	.VNEEVTLDLGDE	377			
NTDB id 453 Spy49 1753c ACI62003.1	FSYNGEKIGQGS	ENAKRYLADHPQLF	DEIDRKRVRVKFGL	LEESEEEESAMAVASE	.....E	.....TDDLALDLNG	373		
NTDB id 408 SMU RS09530 WP 002262392.1	YSYNGEKIGQGS	ENAKKFLADNPEIF	DDIDHKVVRVQYGL	IEEDNTEEKQSSKEK	.....ETDEK	..ADKNLVLELDDT	378			
NTDB id 115 BSU 16940 NP 389576.2	YSYEEEE	RLGQGR	ENAKQFLKENK	DIMLMIQEQ	IREHYGL	DNNGVVQQAEETQEEL	.EFE.E	.....	348	
NTDB id 625 LCA RS02525 WP 011374196.1	YSYGSERIGQGR	ENAKNYLADHED	VEDEVRLKVR	AAAYGIS	SDVPEEDLPTTEDE	.QI.NILPDDST	.....EE	.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	YSYGDERIGQGR	KEKTIAYIAERP	EMEQRDRVMAAIR	AGNAGEAPALAPAPA	AAPEAAE	..A	.....	.....	363
NTDB id 1245 Cj1673c YP 002345041.1	FSYKDK	KLGGREN	SKAFLKENPEI	ADEITKAIQNSMGI	EGMI	....SGSEDDE	.GE.E	.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	LSYQDK	KLGGREN	AKALLKEDKAL	ADEITLKI	KESIGSNEEI	....MPLPDEP	.LE.EME	.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LSYQDK	KLGGREN	AKALLKEDKAL	ADEITLKI	KESIGSNEEI	....MPLPDEP	.LE.EME	.....	347
NTDB id 1389 A4U84 RS07560 WP 021112712.1	FSYDGT	KIGQGR	KNNAVKWLKENPEI	ADKLEQ	IRNTLASNPNS	....VLKATASDSND	.ESDVVEEFSEEL	.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	YSYNGAKIGQGR	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHI	....TEGTQDET	DGE.R	.....PEE	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	YSYNGAKIGQGR	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHI	....TEGTQDET	DGE.R	.....PEE	.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	YSYNGAKIGQGR	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHI	....TEGTQDET	DGE.R	.....PEE	.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	YSYNGER	RIGQGR	DNCREFLREN	AELAREIENK	VREHLGVTPMGAVTLA	.EEVEE	.D	352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	YSYNGDKIGQGR	KANACKYLKENPEI	AKTLDK	KLREMLLN	PNENM	....QLIAETSSAAD	.DVEFGAVPEEF	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	YSYNGDKIGQGR	KANACKYLKENPEI	AKTLDK	KLREMLLN	PNENM	....QLIAETSSAAD	.DVEFGAVPEEF	.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	YSYQGN	KIGQGR	KNNVIRYLEENP	QISTEIEAV	IREQLLTKASDQTAA	.HDETEE	.EPDLL	.ES	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	YSYQGN	KIGQGR	KNNVIRYFEENN	QIAEIEIERN	IREQLLTTGTNGAVQ	.I.EDEE	.EPDLL	.LES	349
NTDB id 1205 PSJM300 05545 AFN77183.1	YAYKGS	KIGQGR	KANAAYLEENPEI	GQIEQQ	IRAKLLVTSANTKATPVAEDLA	.DADI	347	
NTDB id 79188 K002 RS02555 WP 038695581.1	FSYGET	KLGGGR	DAVKSLLDHNP	DLADELEAK	IRAEVSGIDPNLALEEG	339	
NTDB id 1334 RAOC RS04870 WP 004918236.1	FSYQDT	KLGGGR	DTVKELIK	DNPELAEELEAK	IREKLQAK	343	
consensus	**!	**!!!*****	**	*****	*****	**	**	**	**		

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	LEIELEE	
NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	LEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	LEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	LEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	LEIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	LEIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LEIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	IEIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..	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
NTDB id 1245 Cj1673c YP 002345041.1	.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....	347
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....	348
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
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	347
NTDB id 79188 K002 RS02555 WP 038695581.1	.....	339
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....	343

consensus

- X non conserved
- X similar
- X ≥ 50% conserved