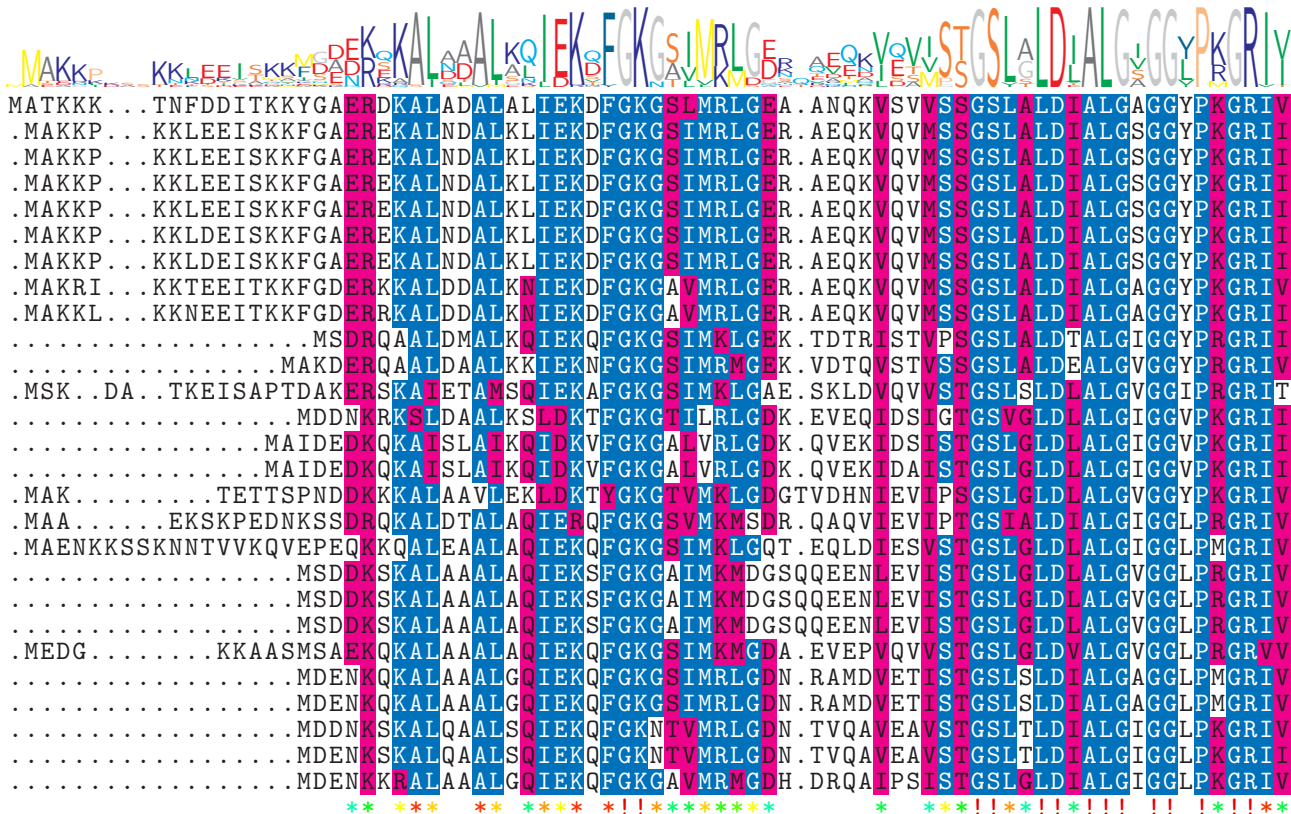


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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 453 Spy49 1753c ACI62003.1
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
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1334 RA0C RS04870 WP 004918236.1
NTDB id 192135 A1sIIB142 RS04040 WP 095693778.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
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 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1

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NTDB	id	600	KW2	RS01765	WP	011675413.1	RLDVRG	STKIEEGS	.GDNKTQ	IGKITK	IKVVKN	KVAPPF	KVALV	DIMF	GEGIS	STGELN	IAVEEG	TIKKS	GAWF	AYNDE	314				
NTDB	id	269	KZH43	RS08665	WP	001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKN	KVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIASD	LI	IKK	AGAW	SYKDE	313			
NTDB	id	228	SPD	RS09265	WP	001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKN	KVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIASD	LI	IKK	AGAW	SYKDE	313			
NTDB	id	194	SPR	RS08825	WP	001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKN	KVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIASD	LI	IKK	AGAW	SYKDE	313			
NTDB	id	159	SP	RS09750	WP	001085462.1	RLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKN	KVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIASD	LI	IKK	AGAW	SYKDE	313			
NTDB	id	499	SM12261	RS08315	WP	078228268.1	RLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKN	KVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIASD	LI	IKK	AGAW	SYKDE	313			
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	RLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKN	KVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIASD	LI	IKK	AGAW	SYKDE	313			
NTDB	id	408	SMU	RS09530	WP	002262392.1	RLDVRG	NTQIKGTG	.EQKDSN	IGKETK	IKVVKN	KVAPPF	KEAFV	EIIY	GEGIS	RTGEL	VKIASD	LGI	IQK	AGAW	SYNGE	313			
NTDB	id	453	Spy49	1753c	ACI62003.1		RLDVRG	TQTQIKGTG	.DQKDSI	IGKETK	IKVVKN	KVAPPF	KVAEV	EIMY	GEGIS	RTGEL	VKIASD	LI	IQK	AGAW	SYNGE	313			
NTDB	id	115	BSU	16940	NP	389576.2	RLDVR	RAEQLKQN	DVM	GNKTKI	IKVVKN	KVAPPF	RTAEV	DIMY	GEGIS	KEGE	IIDL	GTLED	DI	VQKSG	SWSY	EEE	294		
NTDB	id	625	LCA	RS02525	WP	011374196.1	RLDVR	RAEATIKNGT	DM	IGNRARI	IKVVKN	KVAPPF	KVAEV	DIMY	GQGIS	RTGEL	VDMAVE	KDI	INKSG	WSYSG	SE		296		
NTDB	id	1313	DR	RS12030	WP	010888966.1	RLDVR	KIGQ	PTKVG	NDAAV	NTVKIK	TKVKN	KVAAPF	KEVELA	LVY	GKGF	DQLSD	LVGL	AA	MDI	IKK	AGSF	SYSGDE	309	
NTDB	id	1245	Cj1673c	YP	002345041.1		RLDVR	KKVAT	L.KQNE	EPIGN	RVKVK	VVKN	KVAPPF	RQAEF	DVM	FGEGL	SREGEL	IDY	GVKL	DI	VDK	SGAW	FSYKDK	296	
NTDB	id	1211	C694	RS00795	WP	000963128.1	RIDIR	RIAS	L.KQNE	QHIGN	RAKAK	VVKN	KVAPPF	REAEF	DIM	FGEGIS	KEGE	IIDY	GVKL	DI	VDK	SGAW	LSYQDK	298	
NTDB	id	1214	NCTC11637	00359	SQJ03206.1		RIDIR	RIAA	L.KQNE	QHIGN	RAKAK	VVKN	KVAPPF	REAEF	DIM	FGEGIS	KEGE	IIDY	GVKL	DI	VDK	SGAW	LSYQDK	298	
NTDB	id	1334	RAOC	RS04870	WP	004918236.1	RIDIR	RLS	DTGKIK	KDSGEV	IGNR	TKVK	VVKN	KVAPPF	KSAEF	DIMY	GEGV	SKVG	EILD	VATD	LI	DI	VQKSG	SWSYQDT	309
NTDB	id	192135	A1sIIB142	RS04040	WP	095693778.1	RLDIR	RIET	L.KEGT	ESVGN	RTRV	KVKN	KMAPPF	KQAEF	DI	YGV	GISREG	SIID	MGVEL	GLV	KKS	GAWY	TYEAD	306	
NTDB	id	1389	A4U84	RS07560	WP	021112712.1	RLDIR	RCGV	V.KDG	DEIIG	SETKV	KVKN	KVAPPF	REVQF	DIMY	GEGIS	RMNELL	LILAE	ANGF	TIKKS	GAW	FSYDGT	312		
NTDB	id	1130	NGFG	RS03960	WP	003688695.1	RLDIR	RTGS	I.KKGE	EVVLGN	ETRV	KVKIK	NKVAPPF	RQAEF	DILY	GEGIS	WE	GELID	IGVKN	DI	INK	SGAW	SYNGA	296	
NTDB	id	1124	NGFG	RS03960	WP	003688695.1	RLDIR	RTGS	I.KKGE	EVVLGN	ETRV	KVKIK	NKVAPPF	RQAEF	DILY	GEGIS	WE	GELID	IGVKN	DI	INK	SGAW	SYNGA	296	
NTDB	id	1123	OK783	RS03845	WP	003688695.1	RLDIR	RTGS	I.KKGE	EVVLGN	ETRV	KVKIK	NKVAPPF	RQAEF	DILY	GEGIS	WE	GEL							

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NTDB id	600	KW2 RS01765 WP 011675413.1	KIGQGA	EAKKNY	LKHEHQDV	FDEIDHKV	VRAAHGL	LLDDSEVAE...TEET	TASKTKAKAKKEEKAVETEIELELED...	387
NTDB id	269	KZH43 RS08665 WP 001085462.1	KIGQGS	ENAKKYLA	EHPEIFD	DEIDKQVR	SKFGLI	DGEEVSE...QDTENKK	DE....PKKEEA..VNEEVPLDLGDELEI	384
NTDB id	228	SPD RS09265 WP 001085462.1	KIGQGS	ENAKKYLA	EHPEIFD	DEIDKQVR	SKFGLI	DGEEVSE...QDTENKK	DE....PKKEEA..VNEEVPLDLGDELEI	384
NTDB id	194	SPR RS08825 WP 001085462.1	KIGQGS	ENAKKYLA	EHPEIFD	DEIDKQVR	SKFGLI	DGEEVSE...QDTENKK	DE....PKKEEA..VNEEVPLDLGDELEI	384
NTDB id	159	SP RS09750 WP 001085462.1	KIGQGS	ENAKKYLA	EHPEIFD	DEIDKQVR	SKFGLI	DGEEVSE...QDTENKK	DE....PKKEEA..VNEEVPLDLGDELEI	384
NTDB id	499	SM12261 RS08315 WP 078228268.1	KIGQGS	ENAKKYLA	DNPEIFD	DEIDHQRV	VQFGLI	DGEEIAE...S...KK	DE....AAQVDS..VNEEVTLDLGDELEI	380
NTDB id	527	SMSK321 RS11065 WP 001085454.1	KIGQGS	ENAKKYLA	DNPEVFAE	IDHQRV	VQFGLI	DGEEAAE...S...KK	DE....VAQVDS..VNEEVTLDLGDELEI	380
NTDB id	408	SMU RS09530 WP 002262392.1	KIGQGS	ENAKKFLA	DNPEIFFD	IDHQRV	VQYGLI	EEDNTEE...KQSSKEK.....ETDEK..ADKNLVLELDDTIEL		381
NTDB id	453	Spy49 1753c ACI62003.1	KIGQGS	ENAKRYLA	DHPQLFD	IEDRKVR	VKFGLE	LEESEEES...AMAVASE.....E.....TDDLALDLNGIEI		376
NTDB id	115	BSU 16940 NP 389576.2	RLGGREN	AKFKLEN	KHDIMLMIQEQ	IREHYGL	DNNGVVQQ...	QAETQEEL	EFE.E.....	348
NTDB id	625	LCA RS02525 WP 011374196.1	RIGQGREN	AKNYLA	DHDEVDR	VLKVRAAYGI	SDVPEEDL...	PTTEDE.QI.NILPDDST.....EE.....		355
NTDB id	1313	DR RS12030 WP 010888966.1	RIGQGKEKT	IATYAER	PMEQEIRDR	VMAAIRAGNAGEAPALAPAPAAPAEAAEA				363
NTDB id	1245	Cj1673c YP 002345041.1	KLGGGRENSKA	FLKENPEI	ADEITKAIQN	SMGIEGMISGSE...DD...EGEE				343
NTDB id	1211	C694 RS00795 WP 000963128.1	KLGGGRENAKALLKED	KALADEITLKIKESI	GSNEEIMPLP...DE...PLEEME					347
NTDB id	1214	NCTC11637 00359 SQJ03206.1	KLGGGRENAKALLKED	KALADEITLKIKESI	GSNEEIMPLP...DE...PLEEME					347
NTDB id	1334	RAOC RS04870 WP 004918236.1	KLGGGRDTV	KELIKDNPELA	EELEAKIREKLQAK					343
NTDB id	192135	A1sIIB142 RS04040 WP 095693778.1	QLGGQKENSRA	FLINNPDLANEIESK	IRTSFVPVEVDAALI...AEIDEAAA	EVDF				359
NTDB id	1389	A4U84 RS07560 WP 021112712.1	KIGQGNNAVKWL	KENPEIADKLEQEI	RNTLASNPNS.VLK...ATASDSN	DES DVEEFS.....EEEL				372
NTDB id	1130	NGFG RS03960 WP 003688695.1	KIGQGDNV	RVWLKENPEIS	DEIDAKIRALNGVEMHI.TEG...TQDET	DGER.....P.....EE				348
NTDB id	1124	NGFG RS03960 WP 003688695.1	KIGQGDNV	RVWLKENPEIS	DEIDAKIRALNGVEMHI.TEG...TQDET	DGER.....P.....EE				348
NTDB id	1123	OK783 RS03845 WP 003688695.1	KIGQGDNV	RVWLKENPEIS	DEIDAKIRALNGVEMHI.TEG...TQDET	DGER.....P.....EE				348
NTDB id	1427	RS RS02760 WP 011000510.1	RIGQGRDNCR	REFLRENAELAREIENK	VREHLGVTPMG.AVT...LA.EEVED					352
NTDB id	1165	A1552VC RS01565 WP 000344154.1	KIGQGGKANACKYL	KENPEIAKTLDKKL	REMMLLPENM.QLI...AETSSAAD	VEFGAVP.....EEF				354
NTDB id	1142	GTF74 RS11550 WP 000344154.1	KIGQGGKANACKYL	KENPEIAKTLDKKL	REMMLLPENM.QLI...AETSSAAD	VEFGAVP.....EEF				354
NTDB id	1022	ACTAD RS06390 WP 004925639.1	KIGQGNNVIRYLEENP	QISTEIEAVIREQLLT	KASD.QTA...A.HDETEEPDLL..E.....S					349
NTDB id	1074	ABD1 RS10195 WP 000344167.1	KIGQGNNVIRYLEENP	QIAEIERNI	IREQLLTGTN.GAV...Q.I.EDEEPDLL..L.....ES					349
NTDB id	1205	PSJM300 05545 AFN77183.1	KIGQGGKANAKY	LEENPIGEIEIQQ	IRAKLLVITSAN.TKA...TPVAEDLADADI					347
consensus			***!!!***** ** ***** **** *						**	

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		E	EE	
NTDB id 600 KW2 RS01765 WP 011675413.1		387		
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388		
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388		
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388		
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388		
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384		
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383		
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378		
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 1334 RA0C RS04870 WP 004918236.1	....	343		
NTDB id 192135 A1sIIB142 RS04040 WP 095693778.1	....	359		
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		
consensus				

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