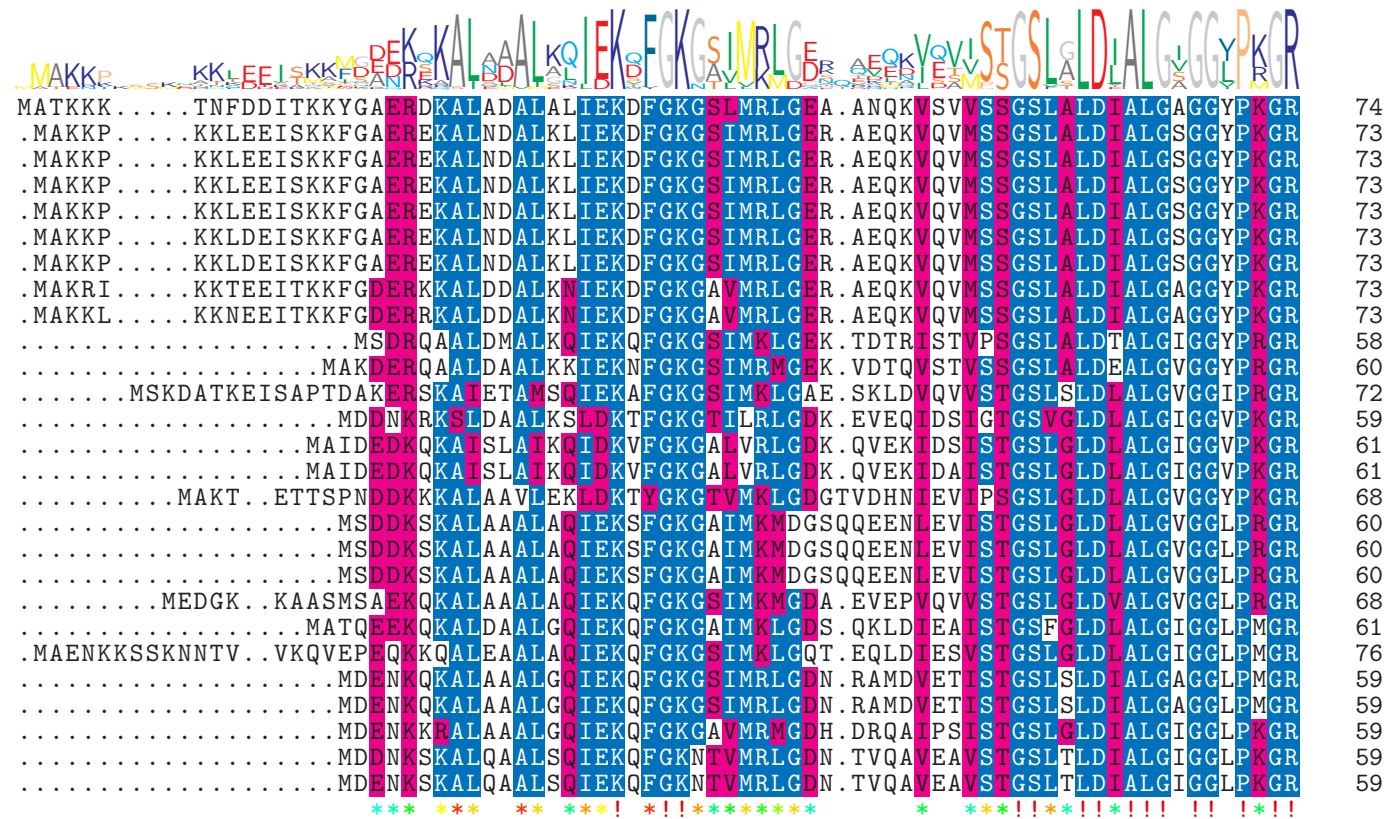


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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
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 RAOC RS04870 WP 004918236.1
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 158609 ACT75 RS06955 WP 005544399.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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NTDB	id	600	KW2	RS01765	WP	011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LLDDSEVAETEETETASKTKAKAKKEEKAVETEEIELELED....	387	
NTDB	id	269	KZH43	RS08665	WP	001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385	
NTDB	id	228	SPD	RS09265	WP	001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385	
NTDB	id	194	SPR	RS08825	WP	001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385	
NTDB	id	159	SP	RS09750	WP	001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385	
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	DEKIGQGS	ENAKKYLADNPEVFAE	IDHQVRVQFGL	LIDGEEAAE...SKKDE...VAQVDS..VNEEVTLDLGDELEIE	381	
NTDB	id	499	SM12261	RS08315	WP	078228268.1	DEKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	LIDGEEIAE...SKKDE...AAQVDS..VNEEVTLDLGDELEIE	381	
NTDB	id	408	SMU	RS09530	WP	002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382	
NTDB	id	453	Spy49	1753c	ACI62003.1		GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFG	LLEESEESAMAVASE.....E.....TDDLALDLDNNGIEIE	377	
NTDB	id	115	BSU	16940	NP	389576.2	EERLGQGR	ENAKQFLKENKDIMIQE	IREHYGLDNNGVVQQQAETQEEL	EFE.E.....	348	
NTDB	id	625	LCA	RS02525	WP	011374196.1	SERIGQGR	ENAKNYLADHEDVE	DEVRLKVRAAAYG	ISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355	
NTDB	id	1313	DR	RS12030	WP	010888966.1	DERIGQG	KEKTIAIYIAERP	MEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAA...EA.....		363	
NTDB	id	1245	Cj1673c	YP	002345041.1		DKKLGGGR	ENSKAFLKENPEIA	DEITKAIQNSMG	IEGMI.....SGSEDDGEE.....	343	
NTDB	id	1211	C694	RS00795	WP	000963128.1	DKKLGGGR	ENAKALLKEDKAL	ADEITLKI	KESIGSNEEI.....MPLPDEPLEE.....ME.....	347	
NTDB	id	1214	NCTC11637	00359	SQJ03206.1		DKKLGGGR	ENAKALLKEDKAL	ADEITLKI	KESIGSNEEI.....MPLPDEPLEE.....ME.....	347	
NTDB	id	1334	RAOC	RS04870	WP	004918236.1	DTKLGGGR	DTVKELIKDNPEL	AEELEAKIREKLQAK.....		343	
NTDB	id	1130	NGFG	RS03960	WP	003688695.1	GAKIGQGK	DNVRVWLKENPEIS	DEIDAKIRALNG	VEMHI.....TEGT.....QDET	DGERPEE.....	348
NTDB	id	1124	NGFG	RS03960	WP	003688695.1	GAKIGQGK	DNVRVWLKENPEIS	DEIDAKIRALNG	VEMHI.....TEGT.....QDET	DGERPEE.....	348
NTDB	id	1123	OK783	RS03845	WP	003688695.1	GAKIGQGK	DNVRVWLKENPEIS	DEIDAKIRALNG	VEMHI.....TEGT.....QDET	DGERPEE.....	348
NTDB	id	1427	RS	RS02760	WP	011000510.1	GERIGQGR	DNCREFLRENAEL	AREIENKVR	REHLGVTPMG.....AVTLAEEVEE..D.....	352	
NTDB	id	158609	ACT75	RS06955	WP	005544399.1	NEKIGQGT	NAMKWLKDNPEAK	FIESTRDELLAH	SPES....AITAEVENEAGNGEGDFE.....	352	
NTDB	id	1389	A4U84	RS07560	WP	021112712.1	GTKIGQGG	KNNAVKWLKENPEIA	DKLEQIEIRNTL	ASNPN.....VLKATASDS..NDES	DVEEFSEEL.....	372
NTDB	id	1165	A1552VC	RS01565	WP	000344154.1	GDKIGQGG	KANACKYLNKENPEIA	KTLDKKLREMLLN	PNENM.....QLIAETSSAA..DDVEFGAV	PEEF.....	354
NTDB	id	1142	GTF74	RS11550	WP	000344154.1	GDKIGQGG	KANACKYLNKENPEIA	KTLDKKLREMLLN	PNENM.....QLIAETSSAA..DDVEFGAV	PEEF.....	354
NTDB	id	1205	PSJM300	05545	AFN77183.1		GSKIGQGG	KANAAKYLEENPEIG	QIEQQIRAKLL	VTSAN.....TKATPVAEDL..ADADI.....	347	
NTDB	id	1022	ACIAD	RS06390	WP	004925639.1	GNKIGQGG	KNNVIRYLEENPQISTE	IEIEAVIREQLLT	KASD.....QTAA.HDETE..EEP	DLL..ES.....	349
NTDB	id	1074	ABD1	RS10195	WP	000344167.1	GNKIGQGG	KNNVIRYFEENQIAE	IEIERNIREQLLT	TGNT.....GAVQ.I.EDE..EEP	DLL..LES.....	349
consensus							***!!!!*****	**	*****	****	**	***

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		IEE	
NTDB id 600 KW2 RS01765 WP 011675413.1	...	387	
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388	
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388	
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388	
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384	
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384	
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NTDB id 453 Spy49 1753c ACI62003.1	D..	378	
NTDB id 115 BSU 16940 NP 389576.2	...	348	
NTDB id 625 LCA RS02525 WP 011374196.1	...	355	
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NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349	
consensus			

-  non conserved
-  similar
-  ≥ 50% conserved