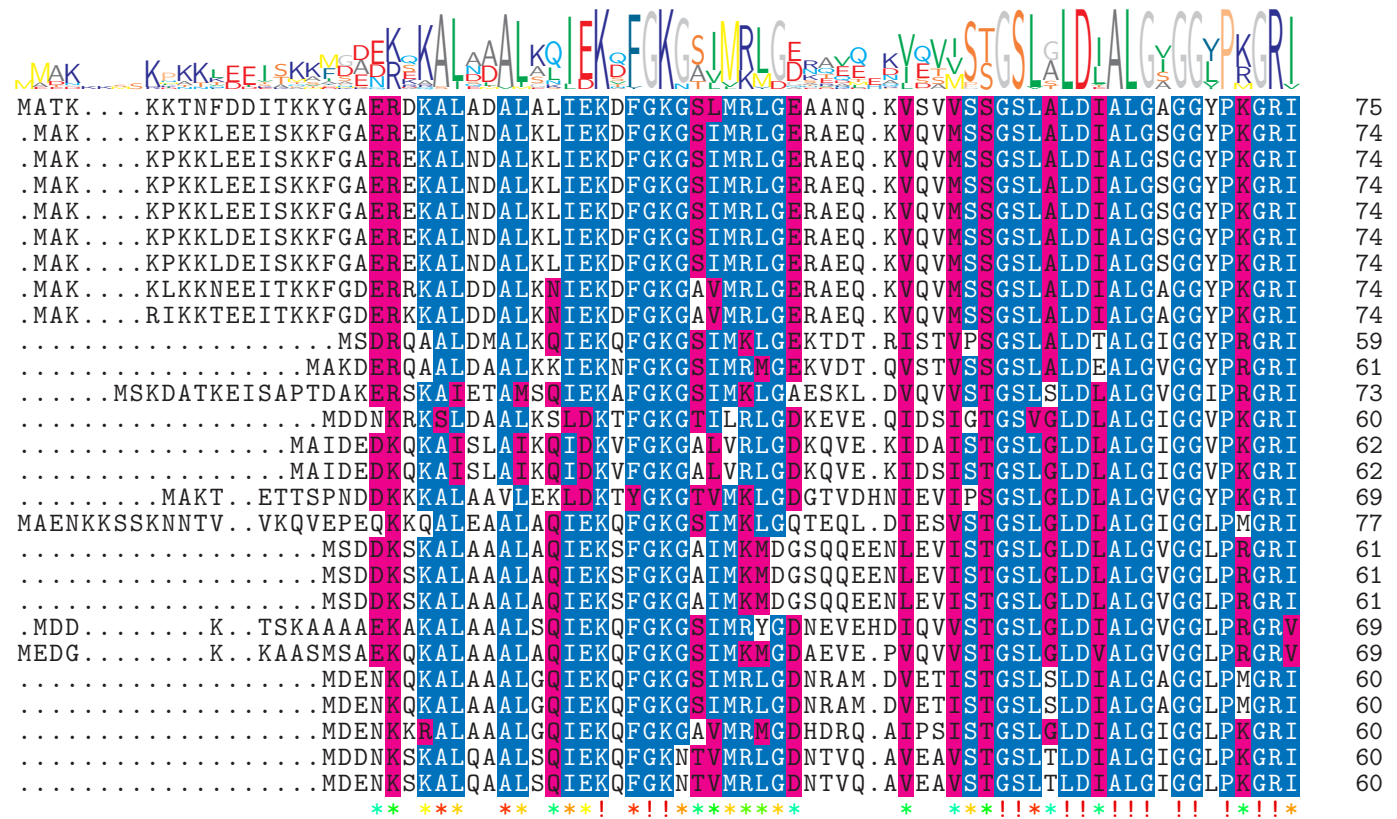


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consensus

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NTDB id 1130 NGFG RS03960 WP 003688695.1	VR	L	D	I	R	R	T	G	S	.	.	.	.	.	.	.	.	.	.	.	I	.	K	K	G	.	E	E	V	L	G	N	E	T	R	V	K	V	I	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	Y	S	Y	N	G	295
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	VR	L	D	I	R	R	T	G	A	.	.	.	.	.	.	.	.	.	.	.	I	.	K	E	G	.	E	E	V	V	G	N	E	T	R	I	K	V	V	K	N	K	I	A	A	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	I	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	Y	S	Y	N	G	294
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	VR	L	D	I	R	R	I	G	Q	.	.	.	.	.	.	.	.	.	.	.	V	.	K	E	G	.	D	E	I	I	V	G	S	E	T	K	V	K	V	K	N	K	M	A	P	P	F	K	E	A	I	F	Q	I	L	Y	G	K	G	T	N	Q	L																									

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NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAE..	TEEETTAS	TKAKAKKEEK	AVETEEIELE	LED....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKF	GLIDGEEVSE..	QDTENKK	DE....	PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKF	GLIDGEEVSE..	QDTENKK	DE....	PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKF	GLIDGEEVSE..	QDTENKK	DE....	PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKF	GLIDGEEVSE..	QDTENKK	DE....	PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADN	PEVFAE	IDHQVRVQF	GLIDGEEAAE.....	SKKDE....	VAQVDS..VNEEVTLDLGDELEI		380
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADN	PEIF	DEIDHQVRVQF	GLIDGEEIAE.....	SKKDE....	AAQVDS..VNEEVTLDLGDELEI		380
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADHP	QLF	DEIDRKVRVKF	GLLEESEEEES..	AMAVASE.....	E.....TDDLALDLN	NGIEI	376
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLADN	PEIF	DDIDHKVRVQY	GLIEEDNTEE..	KQSSKEK.....	ETDEK..ADKNLVLELD	DTIEL	381
NTDB id 115 BSU 16940 NP 389576.2	ERLGGG	RENAKQFLKEN	KDIMLM	IQEQIREHY	GLDNNGVVQQ..	QAEETQEEL	EFEE.E.....		348
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQG	RENAKNYLADH	EDVE	DEVRLKVRAAY	GISDVPEEDL..	PTTEDE.QI.NILP	DDST.....	EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIA	YTAERP	EME	QEI	DRVM	AAIRAGNAGE	APALAPAPAAPEAA.EA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	KKLGGG	RENSKAFLKEN	PEIA	DEITKAIQNS	MCIEGMIS..	GSE....DDEGE	E.....		343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGGG	RENAKALLKED	KALADE	ITLKIKES	IGSNEEIM..	PLP...DEPLE	EME.....		347
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGGG	RENAKALLKED	KALADE	ITLKIKES	IGSNEEIM..	PLP...DEPLE	EME.....		347
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGGG	RD	TVKELIKDN	PELA	EEL	EAKIRE	KLQAK.....		343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQG	KNNAVKWLKEN	PEIADKLE	QEIRNTLAS	NPNSV..LKATAS	DSNDES	DVEEF.....	SEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKEN	PEIS	DEIDAKIRAL	NGVEMHIT..E.....	GTQDE	TDGER.....	PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKEN	PEIS	DEIDAKIRAL	NGVEMHIT..E.....	GTQDE	TDGER.....	PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQG	KDNVRVWLKEN	PEIS	DEIDAKIRAL	NGVEMHIT..E.....	GTQDE	TDGER.....	PEE.....	348
NTDB id 96228 ASC20 RS12890 WP 003812760.1	NRIGQG	KDNVREYLKEH	KEMAI	EIENKVREN	QIVSRAA..T.FP	ASEAEDGE.....			353
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQG	RDNCREFL	RENAELARE	EIENKVREHL	GVTPMGA..V.TL	AEEVEED.....			352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQG	KANACKY	LKENPEIA	KTLDKKLRE	MLLN	PENMQ..LIAET	SSAADDV.EFGAV.....	PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQG	KANACKY	LKENPEIA	KTLDKKLRE	MLLN	PENMQ..LIAET	SSAADDV.EFGAV.....	PEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQG	KANA	AKYLEEN	PEIGQIE	EQIRAKLL	TSANT..KATP	VAEDLADA.DI.....		347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQG	KNNVIRY	LEENPQISTE	IEAVIRE	QLLT	KASDQ..TAA.H	DETEEEP.DLL.....	ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQG	KNNVIRY	FEENNQIA	EIEIRNIRE	QLLT	TGTNG..AVQ.I	EDEEP.DLL.....	LES.....	349
consensus	***!!	*****	**	*	***	*****	**	*	

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		E	LEE	
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 527 SMSK321 RS11065 WP 001085454.1	EIEE	384		
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384		
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378		
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	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 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		
NTDB id 1124 NGFG RS03960 WP 003688695.1	....	348		
NTDB id 1123 OK783 RS03845 WP 003688695.1	....	348		
NTDB id 96228 ASC20 RS12890 WP 003812760.1	....	353		
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 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