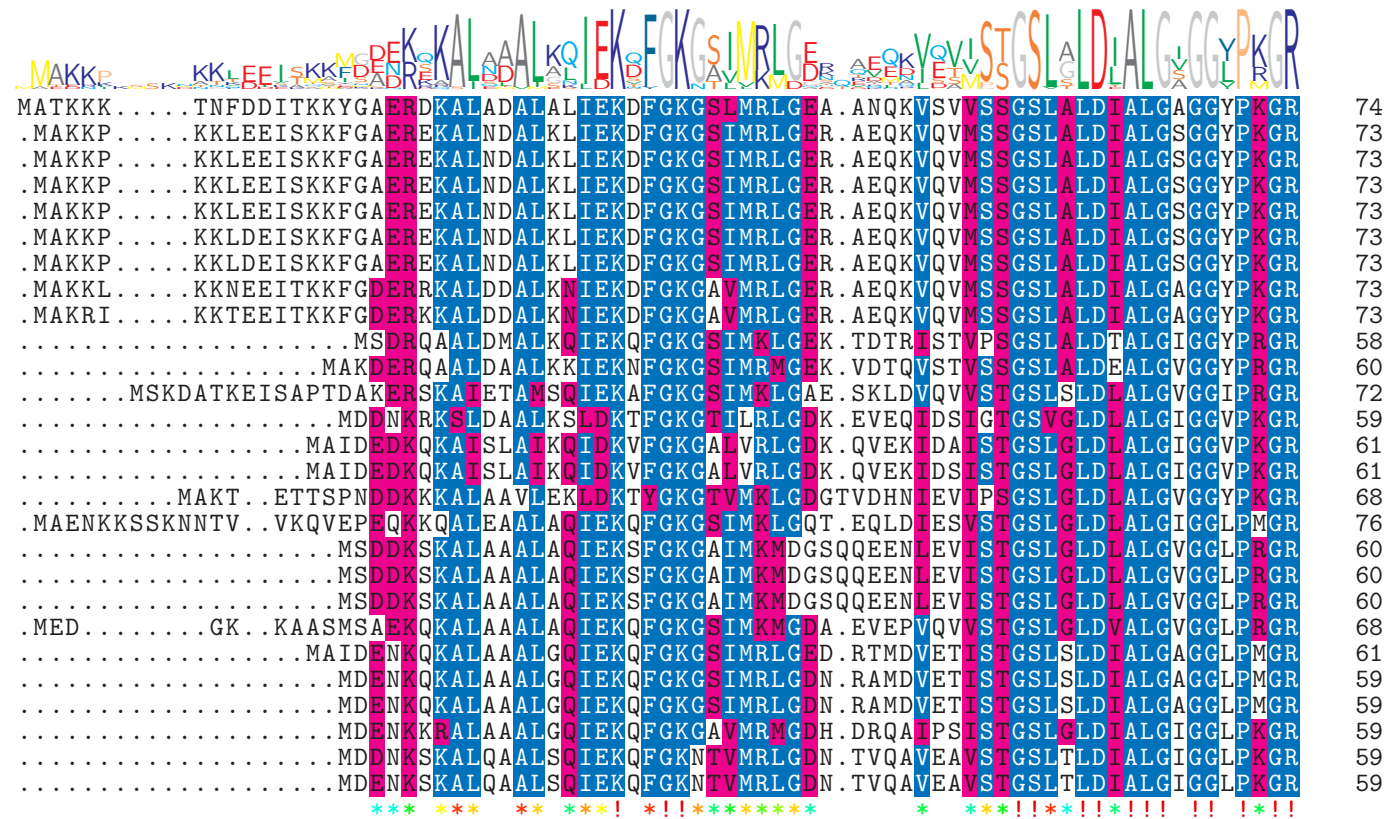


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NTDB id 499 SM12261 RS08315 WP 078228268.1
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NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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consensus

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NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGISKTGELLKIASDL	DIIKKAGAWYSYK	311							
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGISKTGELLKIASDL	DIIKKAGAWYSYK	311							
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NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGISKTGELLKIASDL	DIIKKAGAWYSYK	311							
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGGISKTGELLKIASDL	DIIKKAGAWYSYK	311							
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGGISKTGELLKIASDL	DIIKKAGAWYSYK	311							
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSN	IGKETKIKVVKNKVAPPFKVAEVEIMYGGISRTGELVKIASDL	DIIQKAGAWFSYN	311							
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NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKVVKNKVAPPFKSAEFDIMYGGVSKVGEILD	VATDLDIIQKSGSWFSYQ	307							
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDEI	IGSETKVVKNKVAPPFR	EVQFDIMYGGISRMNELLILAEANGFI	KKSGAWFSYD	310						
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NTDB id 34193 KP1 RS20055 WP 002914769.1	SVRLDIRRIGA....V.KEG	DNVVGSETRVKVVKNKIAAPFKQAEFQ	ILYGGIN	FYGELVD	LGVKEKLIIEKAGAWYSYN	295					
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVLGNETRIKVVKNKIAAPFKEANTQ	IMYGGGFNR	REGELID	LGVKHKMVEKSGAWYSYN	293					
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NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEG	DEVVGS	ETRVKVVKNKVAPPFRQAEFQ	ILYGKGIYR	NGEI	IDLG	VQQGLVEKSGAWYAYK	293			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKVVKNKMAPPFR	AEAFQ	ILYGKGVN	QLGELVD	LAVQQN	IVQKAGAWYSYQ	293			
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKVVKNKMAPPFK	AEAFQ	ILYGKGTN	QLGELVD	LAVQQ	DIVQKAGAWYSYQ	293			
consensus	*!!**!* *	*	**	*****!*****!*****!*	*	*****!*****	*****	*****	***	!	*****!

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETEEIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
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NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	.VNEEVPLDLGDE	LEIE	385
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEV	FAEIDHQVRVQFGL	IDGEEAAE....SK	KDE....VAQVDS	.VNEEVTLDLGDE	LEIE	381
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	IDGEEIAE....SK	KDE....AAQVDS	.VNEEVTLDLGDE	LEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAV	ASE.....E.....	TDDLALDLNNGIE	IEIE	377
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NTDB id 115 BSU 16940 NP 389576.2	EE	RLGQGREN	AKQFLKENKDIM	LMIQEQIREHYGL	DNNGVVQQAEET	QEEL.EFE.E.....		348
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NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGS	KEKTIA	YIAERPEMEQE	IRDRVMAAIRAG	NAGEAPALAPAA	.PEAAEA.....		363
NTDB id 1245 Cj1673c YP 002345041.1	DK	KLGGGREN	SKAFLKENPEI	ADEITKAIQNSM	GIEGMISGSEDDE	.GE.E.....		343
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NTDB id 1211 C694 RS00795 WP 000963128.1	DK	KLGGGREN	AKALLKEDKAL	ADEITLKIKES	IGSNEEIMPLPDE	P..LE.EME.....		347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DT	KLGGGRD	TVKELIKDNPE	LAELEAKIREKL	QAK.....			343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GT	KIGQGK	NNAVKWLKENPE	IADEIKLEQEI	RNTLASNPNSVL	KATAS..D...S	NDES	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGK	DNVRVWLKENPE	ISDEIDAKIRAL	NGVEMHITEGTQ	DE..TD.....	GERPEE.....		348
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NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGK	DNVRVWLKENPE	ISDEIDAKIRAL	NGVEMHITEGTQ	DE..TD.....	GERPEE.....		348
NTDB id 1427 RS RS02760 WP 011000510.1	GE	RIGQGRD	NCREFLRENAEL	AREIENKVR	REHLGVTPMGAV	TLAE..VE.ED		352
NTDB id 34193 KP1 RS20055 WP 002914769.1	GD	KIGQGGKAN	AITWLKENPAA	AKEIEKKVRELL	LNNQDAKPD..FV	.VD.GNDAEETE	QDF	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GD	KIGQGGKAN	ACKYLLKENPE	IAKTLDDKKL	REMLLNPENMQL	I..AE.....	TSSA	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GD	KIGQGGKAN	ACKYLLKENPE	IAKTLDDKKL	REMLLNPENMQL	I..AE.....	TSSA	354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGG	KANA	AKYLEENPEIG	QIEEQIRAKLL	VSANTKA..TP..	VA.EDLADADI		347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GN	KIGQGK	NNVIRYLEENP	QISTEIEAVIRE	QLLT	TKASDQTA..A	...HD	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GN	KIGQGK	NNVIRYFEEN	NQIAEEIERNIRE	QLLT	TGTNGAV..Q	...I..E	349
consensus		***!!!*****	***	*****	*****	***	***	

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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
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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
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 115 BSU 16940 NP 389576.2	...	348
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
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NTDB id 1130 NGFG RS03960 WP 003688695.1	...	348
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NTDB id 1427 RS RS02760 WP 011000510.1	...	352
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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