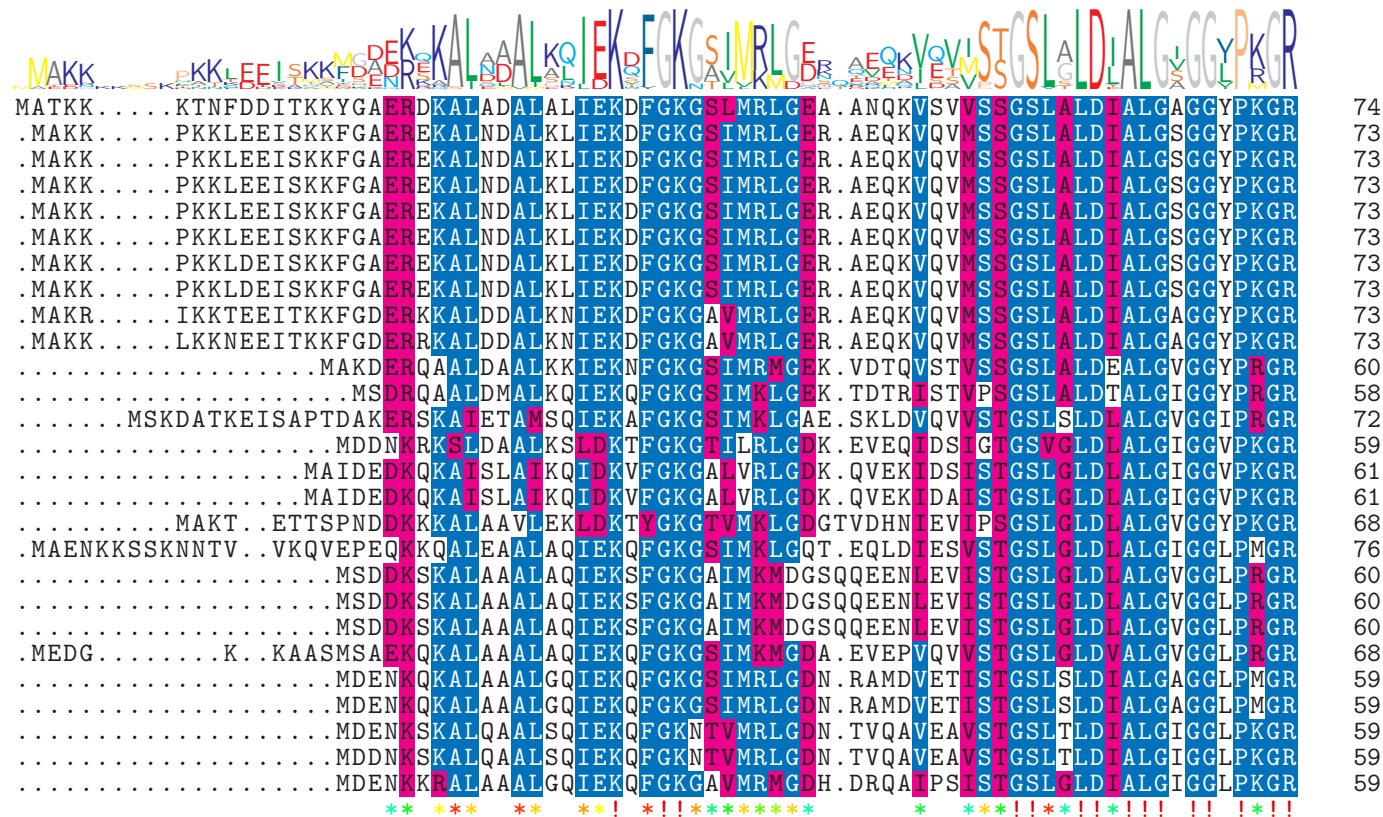


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NTDB id 194 SPR RS08825 WP 001085462.1
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NTDB id 625 LCA RS02525 WP 0011374196.1
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NTDB id 1313 DR RS12030 WP 010888966.1
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NTDB id 1211 C694 RS00795 WP 000963128.1
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NTDB id 1389 A4U84 RS07560 WP 021112712.1
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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consensus



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consensus

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NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGEIGISKTGELLKIASDLIIKKAGAWYSYK	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGEIGISKTGELLKIASDLIIKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGEIGISKTGELLKIASDLIIKKAGAWYSYK	311
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NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYGEIGISRTGELVKIASDLIIQKAGAWFSYN	311
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEEV	VGNETRIKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEI	VGSETKVVKNKMAPPFKAEIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEI	IGSETKVVKNKMAPPFRQAIFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEV	VGSETRVVKNKVAPPFRQAEDQILYGKGIYRNGEITIDLGVQQGLVEKSGAWAYK	293
consensus	*!!**!*~	*~**~*****!!*!!*!!*!!*~**~*****!!*~**~*****!!*~**~*****!!	

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	FDEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKKEEK	AVETER	EIELELED		387
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NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DEP...	KKEEA..	VNEEV	PLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DEP...	KKEEA..	VNEEV	PLDLGDELEIE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLAADNPEIF	DEIDHQVRVQFGL	IDGEEIAES...	KKDEA...	AQVDS..	VNEEV	TLDLGDELEIE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLAADNPEV	FAEIDHQVRVQFGL	IDGEEAAES...	KKDEV...	AQVDS..	VNEEV	TLDLGDELEIE	381
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NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQL	FDEIDRKVRVKFGL	LEESEEEESAMAVASE		E.....	TD	D LALDLNGIEIE	377
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGR	ENAKNYLADHEDVE	DEVRLKVR AAYGIS	ISDVPEEDLPTTEDE	.QIN.....	ILPDD	STEE.		355
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGR	ENAKQFLKENKD	IMLMIQEQIREHYGL	DNNGVVQQQAETQEELE		FE.E.....			348
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NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGR	ENSKAFLKENPEI	ADEITKAIQNSMG	IEGMI....	SGSEDDE..GE..E.....				343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGR	ENAKALLKEDKAL	ADEITLKIKESIGS	NEEI....	MPLPDEP..LE..EM.....	E.....			347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGR	ENAKALLKEDKAL	ADEITLKIKESIGS	NEEI....	MPLPDEP..LE..EM.....	E.....			347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGR	DTVKELIKDNPEL	AEELEAKIREKLQAK						343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGN	NAVKWLKENPEI	ADKLEQEIRNTLAS	NPNS....	VLKATASDSND..ES.....	DVEEF	SEEEL...		372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGN	DNVRVWLKENPEI	SDEIDAKIRALNGV	EMHI....	TEGTQDETD.....	GERPEE			348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGN	DNVRVWLKENPEI	SDEIDAKIRALNGV	EMHI....	TEGTQDETD.....	GERPEE			348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGN	DNVRVWLKENPEI	SDEIDAKIRALNGV	EMHI....	TEGTQDETD.....	GERPEE			348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCREFLRENAEL	AREIENKVREHLGV	TPMG....	AV.TLAEVEVEE..D.....				352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGN	AKACKYLKENPEI	AKTLDKKLREMLLN	PENM....	QLIAETSSAAD..DV.....	EFGAV	PEEF....		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGN	AKACKYLKENPEI	AKTLDKKLREMLLN	PENM....	QLIAETSSAAD..DV.....	EFGAV	PEEF....		354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGN	NNVIRYFEENNQIA	EEIERNIREQLLT	TGTN....	GAVQ.I.EDEE..EP.....	D..LL	LES....		349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGN	NNVIRYLEENPQI	STEIEAVIREQLLT	TKASD....	QTAA.HDETEE..EP.....	D..LL	LES....		349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGN	KANAACKYLKENPEI	IGQIEEQIRAKLLV	TSAN....	TKATPVAEDLA..DA.....	D..I.....			347
consensus	***!!!	*****	**	*	***	*****	**	*	

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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 337773 EQH29 RS08975 WP 001085463.1	IEE	388
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 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
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NTDB id 1313 DR RS12030 WP 010888966.1	...	363
NTDB id 1245 Cj1673c YP 002345041.1	...	343
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consensus

 non conserved
 similar
 ≥ 50% conserved