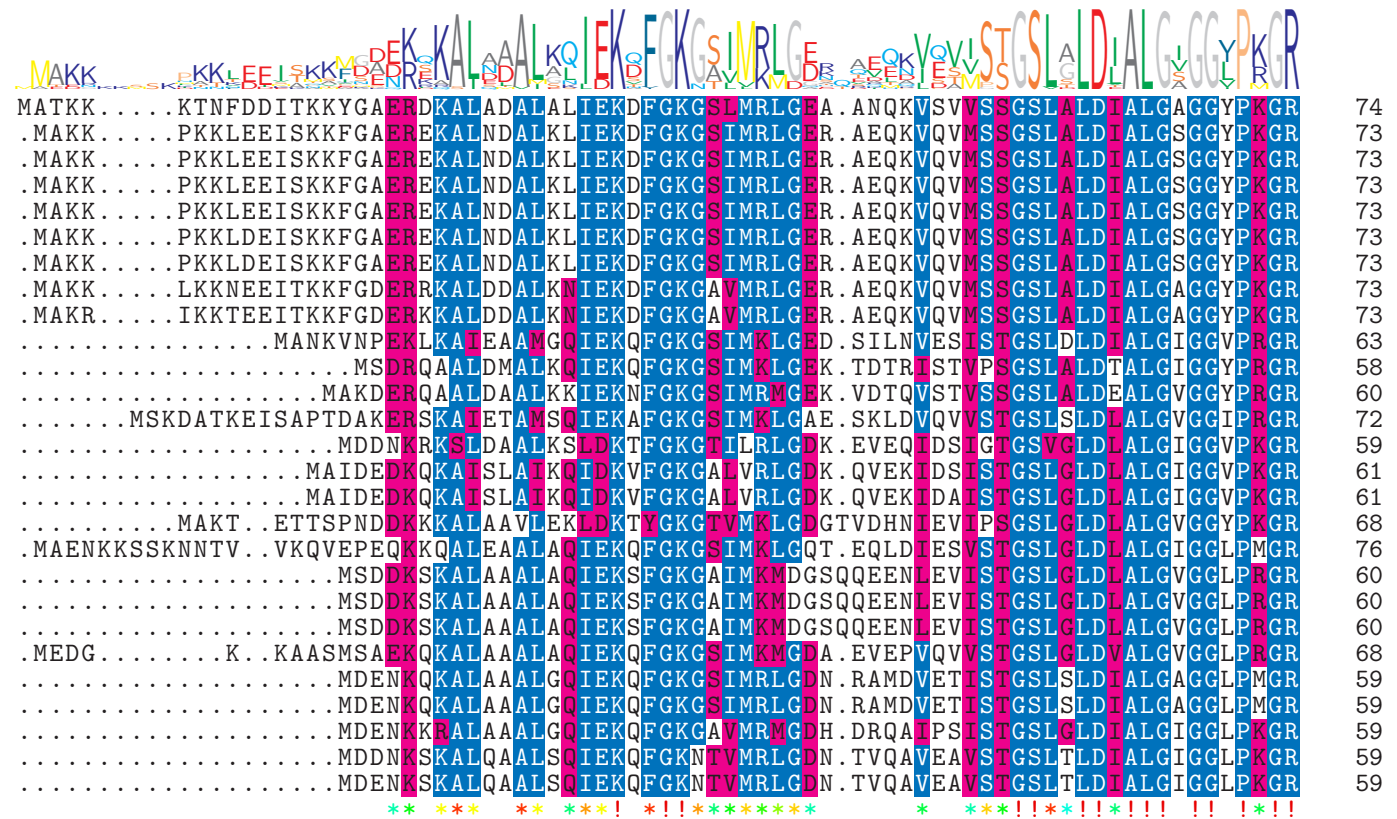


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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 165237 RSJ5 RS11945 WP 012100363.1
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 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 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKEAVALVDIMFGEGISSTGELINIAVEEGITIKKSGAWFAYN	312
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NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDIIKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDIIKKAGAWYSYK	311
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NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSNIGKETKIKVVKNKVAPPFKEAEVEIMYEGEGISRTGELVKIASDLDI IQKAGAWFSYN	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEI IYGEGISRTGELVKIASDLGI IQKAGAWFSYN	311
NTDB id 165237 RSJ5 RS11945 WP 012100363.1	SVRLDVRIDSISIKQGD.....QILGNRTRVKIKKNKVAPPFKMAEFDIMYNEGISKVGNILDVGVREELVDKSGSWFSYK	297
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDDIMYEGEGISKEGEIIDLGTEL DIVQKSGSWSYE	292
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGGISRTGELVDMAVEKDIINKSGSWSYSG	294
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGNDAAVANTVKIKTVKNKVAAPFKEVELALIVYGKGFQDLSDLVGLAADM DI IKKAGSFYSYG	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEPIGNRVKIKVVKNKVAPPFRQAEFDVIMFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQHIIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNEQHIIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEVIGNRTRKIKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDL DI IQKSGSWFSYQ	307
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NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKN DI INKSGAWYSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKN DI INKSGAWYSYN	294
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEVVGSETRVKVVKNKVAPPFRQAEFIQILYGKGIYRNGEIIDLG VQQLVEKSGAWYAYK	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEIVIGSETKVVVVKNKMAPPFREAI FQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIVIGSETKVVVVKNKMAPPFKAEI FQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHGL	LDDSEVAETEEETTA	...	SKTKAKAKKEEKAVETEEIELELED	387				
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENKK	...	DE....PKKEEA..VNEEVPLDLGDE	381				
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENKK	...	DE....PKKEEA..VNEEVPLDLGDE	381				
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENKK	...	DE....PKKEEA..VNEEVPLDLGDE	381				
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENKK	...	DE....PKKEEA..VNEEVPLDLGDE	381				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEVFAE	IDHQVRVQFGL	LIDGEEAAE	...	SKK....DE....VAQVDS..VNEEVTLDLGDE	377				
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	LIDGEEIAE	...	SKK....DE....AAQVDS..VNEEVTLDLGDE	377				
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAVASE	...	E.....TDDLALDLNG	373				
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEKQSSKEK	...	ETDEK..ADKNLVLELDDT	378				
NTDB id 165237 RSJ5 RS11945 WP 012100363.1	DT	RLGQGR	ENAKQFLKDNMNIALE	IENTIRKKHDL	LPVADAKNLNIENKK	QDNKE.....G.....	352				
NTDB id 115 BSU 16940 NP 389576.2	EERL	GGREN	AKQFLKENKDIMLMIQE	IREHYGL	DNNGVVQQQAETQE	...	E..LEFE.E.....	348			
NTDB id 625 LCA RS02525 WP 011374196.1	SERIG	QGR	ENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPEEDLPTTEDE	...	Q.INILPDDSTE.....E.....	355			
NTDB id 1313 DR RS12030 WP 010888966.1	DERIG	QGGKE	KTIAYIAERP	EMEQEIRDRVMAAIR	AGNAGEAPALAPAPAAPEAA	EA.....		363			
NTDB id 1245 Cj1673c YP 002345041.1	DKKL	GGRE	NSKAF	LKENPEIADEITKAI	QNSMGIEGMI	...	SGSEDDE..GEE.....	343			
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKL	GGRE	NAKALLKEDKALADEITLK	IKESIGSNEEI	...	MPLPDEP..LEEME.....		347			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKL	GGRE	NAKALLKEDKALADEITLK	IKESIGSNEEI	...	MPLPDEP..LEEME.....		347			
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKL	GGGR	DTV	KELIKDNPELAE	ELEAKIREKLQAK			343			
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIG	QGGK	NNAVKWLKENPEIAD	KLQEIRNTLASNPNS	...	VLKATASDSNDESDVEEFSE.....EEL.....		372			
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIG	QGGK	DNVRVWLKENPEIS	DEIDAKIRALNGVEMHI	...	TEGT.....QDET	DGERPE.....E.....	348			
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NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIG	QGGK	DNVRVWLKENPEIS	DEIDAKIRALNGVEMHI	...	TEGT.....QDET	DGERPE.....E.....	348			
NTDB id 1427 RS RS02760 WP 011000510.1	GERIG	QGRD	NCREFLRENAELARE	EIENKVREHLGV	TPMG	...	AV.TLAEVEED.....	352			
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIG	QGGK	ANACKY	LKENPEIAKTL	DKKLREMLLN	PENM	...	QLIAETSSAAD	DVEFGAVPE.....EF.....	354	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIG	QGGK	ANACKY	LKENPEIAKTL	DKKLREMLLN	PENM	...	QLIAETSSAAD	DVEFGAVPE.....EF.....	354	
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIG	QGGK	ANA	AKYLEENPEIG	EIEQQIRAKLL	VTSAN	...	TKATPVAEDLADADI		347	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIG	QGGK	NNVIRY	LEENPQISTEIE	AVIREQLLT	TKASD	...	QTAA.HDETEE	EPDLL..ES.....	349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIG	QGGK	NNVIRY	FEENNQIAEEI	ERNIREQLLT	TGTN	...	GAVQ.I.EDEE	EPDLL..LE.....S.....	349	
consensus	***!!!	*****	**	*****	*****	**	**			**	

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NTDB id 600 KW2 RS01765 WP 011675413.1		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	LEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	LEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	LEIEIEE	388
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NTDB id 499 SM12261 RS08315 WP 078228268.1	LEIEIEE	384
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NTDB id 165237 RSJ5 RS11945 WP 012100363.1		352
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NTDB id 625 LCA RS02525 WP 011374196.1		355
NTDB id 1313 DR RS12030 WP 010888966.1		363
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NTDB id 1211 C694 RS00795 WP 000963128.1		347
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NTDB id 1334 RAOC RS04870 WP 004918236.1		343
NTDB id 1389 A4U84 RS07560 WP 021112712.1		372
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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 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