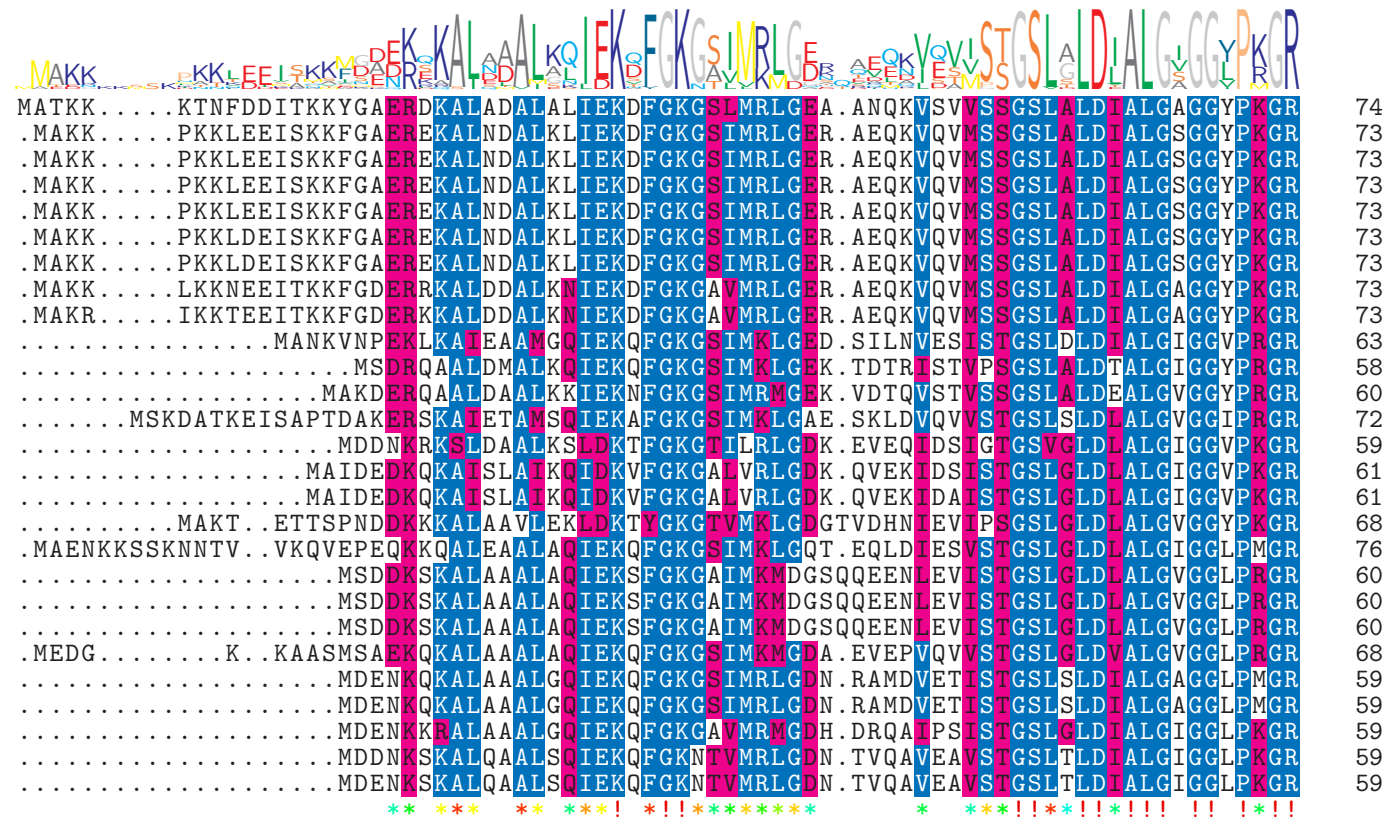


NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 161082 NPD5 RS18110 WP 072587314.1
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 RA0C 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.GDNKTQIGKIITKIKVVKNKVAPPFKEAVALVDIMFGEGISSTGELINIAVEEGIITKKSGAWFAYN	312
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYEGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYEGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSIGKETKIKVVKNKVAPPFKEAEVEIMYEGEGISRTGELVKIASDLDIQKAGAWFSYN	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIYYEGEGISRTGELVKIASDLGIQKAGAWYSYN	311
NTDB id 161082 NPD5 RS18110 WP 072587314.1	SVRLDVRRIDSIKQGD.....QILGNRTRVKINKNKVAPPFKMAEFDIMYNEGISKVGNILDVGVREELVEKSGSWFSYK	297
NTDB id 115 BSU 16940 NP 389576.2	SVRLDVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYEGEGISKEGEIIDLGTELIDIVQKSGSWYSYE	292
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLDVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKEAEVDIMYGGGISRTGELVDMAVEKDIINKSGSWYSYG	294
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGNDAAVANTVKIKTVKNKVAAPFKEVELALVYGKGFQDQLSDLVGLAADMDIINKAGSFYSYG	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEPIGNRVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEVIGNRTKVVKNKVAPPFKSAEFDIMYEGEGVSKVGEILDVATDLDIQKSGSWFSYQ	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDEIIGSETKVVKNKVAPPFREVQFDIMYEGEGISRMNELLILAEANGFIKKSGAWFSYD	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVRKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVRKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVRKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGEDEVGNETKVVKNKVAPPFREAIFFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYN	302
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.KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGVIYRNGEIIDLGVQQGLVEKSGAWYAYK	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEIIGSETKVVKNKMAPPFREAIFFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIVGSETKVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
consensus	*!!**!* * ** *****!!*!!*!!*!!* * *****!* ** ***** * ** *!!**!!	

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETTA	...	SKTKAKAKKEEKAVETEEIELELED	387		
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	...	DE....PKKEEA..VNEEVPLDLGDE	381		
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	...	DE....PKKEEA..VNEEVPLDLGDE	381		
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	...	DE....PKKEEA..VNEEVPLDLGDE	381		
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	...	DE....PKKEEA..VNEEVPLDLGDE	381		
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	IDGEEIAES	KK....	DE....AAQVDS..VNEEVTLDLGDE	377		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEVFAE	IDHQVRVQFGL	IDGEEAAES	KK....	DE....VAQVDS..VNEEVTLDLGDE	377		
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEESAMAVASE	E.....	TDDLALDLNG	373		
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEKQSSKEK	ETDEK..	ADKNLVLELDDT	378		
NTDB id 161082 NPD5 RS18110 WP 072587314.1	DT	RLGQGR	ENAKQFLKDNMNIALE	IENTIRKKHDL	PPVDAKNLNIENTKKE	...E.N.....KE.....G.....	352		
NTDB id 115 BSU 16940 NP 389576.2	EERL	LGQGR	ENAKQFLKENKDIMLMIQE	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	QGGKEK	TIAYIAERP	EMEQEIRDRVMAA	IRAGNAGEAPALAPAPAAPEAA	EA.....	363		
NTDB id 1245 Cj1673c YP 002345041.1	DKKL	LGQGR	ENSKAFLKENPEIA	DEITKAIQNSMG	TEGMI	SGSEDDE..GEE	343		
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKL	LGQGR	ENAKALLKEDKALADEITLK	IKESIGSNEEI	MPLPDEP..LEEME	.....	347		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKL	LGQGR	ENAKALLKEDKALADEITLK	IKESIGSNEEI	MPLPDEP..LEEME	.....	347		
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKL	LGQGR	DTVKELIKDNPELAE	ELEAKIREKLQAK	.....	.....	343		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIG	QGGK	NNAVKWLKENPEIAD	KLQEIRNTLASNPNS	VLKATASDSN	DESDVEEFSEE.....EL.....	372		
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIG	QGGK	DNVRVWLKENPEIS	DEIDAKIRALNGVEMHI	TEGT.....	QDET	DGERPEE.....	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIG	QGGK	DNVRVWLKENPEIS	DEIDAKIRALNGVEMHI	TEGT.....	QDET	DGERPEE.....	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIG	QGGK	DNVRVWLKENPEIS	DEIDAKIRALNGVEMHI	TEGT.....	QDET	DGERPEE.....	348	
NTDB id 1427 RS RS02760 WP 011000510.1	GERIG	QGRDNC	REFLRENAELAREI	ENKVVREHLG	VTPMG	AV.TLAE	VEED.....	352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIG	QGGK	ANACKY	LKENPEIAKTL	DKKLREMLLNPENM	QLIAETSSAA	DDVEFGAVPEE.....F.....	354	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIG	QGGK	ANACKY	LKENPEIAKTL	DKKLREMLLNPENM	QLIAETSSAA	DDVEFGAVPEE.....F.....	354	
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIG	QGGK	ANAAKY	LEENPEIG	QIEQQIRAKLL	VTSAN	TKATPVAEDLADADI.....	347	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIG	QGGK	NNVIRY	LEENPQISTEIEAV	IREQLLT	TKASD	QTAA.HDETEE	EPDLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIG	QGGK	NNVIRY	FEENNQIAEEIERN	IREQLLT	TGTN	GAVQ.I.EDEE	EPDLL..LES.....	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
NTDB id 159 SP RS09750 WP 001085462.1	LEIEIEE		388
NTDB id 499 SM12261 RS08315 WP 078228268.1	LEIEIEE		384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LEIEIEE		384
NTDB id 453 Spy49 1753c ACI62003.1	IEIED..		378
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..		383
NTDB id 161082 NPD5 RS18110 WP 072587314.1	.....		352
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 1211 C694 RS00795 WP 000963128.1	.....		347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....		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 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