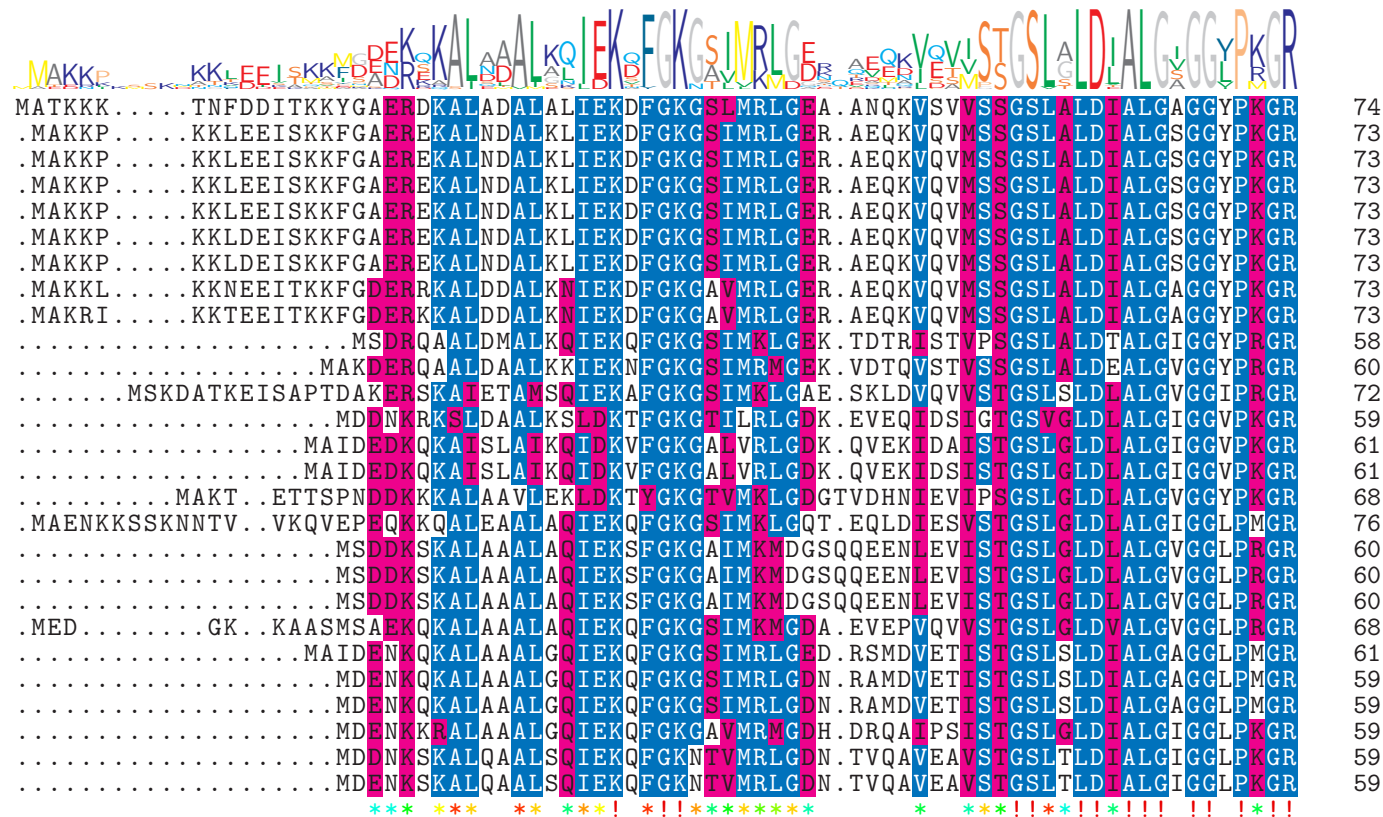


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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 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 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
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 378311 FR801 RS05635 WP 003037330.1
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
consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	I	IKKSGAWFAYN	312		
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDL	D	IIKKAGAWYSYK	311	
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDL	D	IIKKAGAWYSYK	311	
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDL	D	IIKKAGAWYSYK	311	
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDL	D	IIKKAGAWYSYK	311	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYEGEGISKTGELLKIASDL	D	IIKKAGAWYSYK	311	
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYEGEGISKTGELLKIASDL	D	IIKKAGAWYSYK	311	
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSN	IGKETKIKVVKNKVAPPFKVAEVEIMYEGEGISRTGELVKIASDL	D	IIQKAGAWFSYN	311	
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKAEAFVEIIMYEGEGISRTGELVKIASDL	G	IIQKAGAWYSYN	311	
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRRTAEVDIMYEGEGISKEGEI	I	DLGTELDIVQKSGSWYSYE	292		
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKD	I	INKSGSWYSYG	294		
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ.....PTKVGND	AVANTVKIKTKVKNKVAAPFKEVELALVYGKGFQDLS	D	LVGLAADMDI	IKKAGSFYSYG	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT.....L.KQNEEP	IGNRVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLD	D	IVDKSGAWFSYK	294	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA.....L.KQNEQH	IGNRAKAKVVKNKVAPPFRQAEFDIMFGEGISKEGEI	I	DYGVKLDIVDKSGAWLSYQ	296	
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS.....L.KQNEQH	IGNRAKAKVVKNKVAPPFRQAEFDIMFGEGISKEGEI	I	DYGVKLDIVDKSGAWLSYQ	296	
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKVVKNKVAPPFKSAEFDIMYEGEGVSKVGEILD	V	ATDLDIIQKSGSWFSYQ	307	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV.....V.KDGDEI	IGSETKVVKNKVAPPFRQAEFDIMYEGEGISRMNELL	I	LAEANGFIKKSGAWFSYD	310	
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS.....I.KKGEDEV	VGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELID	I	GVKNDIINKSGAWYSYN	294	
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS.....I.KKGEDEV	VGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELID	I	GVKNDIINKSGAWYSYN	294	
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS.....I.KKGEDEV	VGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELID	I	GVKNDIINKSGAWYSYN	294	
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS.....I.KKGEDEV	VGNETKVVKNKVAPPFRQAEFDILYGA	G	VSREGEIIDLGV	EAKVVEKSGAWYSYN	302
NTDB id 378311 FR801 RS05635 WP 003037330.1	SVRLDIRRIGA.....V.KEGDNV	VGSETRVKNKIAAPFKQAEFQILYGE	G	INIFYGELVDLGVKEK	LIEKAGAWYSYN	295
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA.....I.KEGEDEV	VGNETRIKVVKNKIAAPFKEANTQIMYGG	GFNR	REGELIDLGVKHKM	VEKSGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA.....I.KEGEDEV	VGNETRIKVVKNKIAAPFKEANTQIMYGG	GFNR	REGELIDLGVKHKM	VEKSGAWYSYN	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA.....V.KEGDEV	VGSETRVKNKVAPPFRQAEFQILYGKGI	YRN	GEIIDLGVQ	QGLVEKSGAWYAYK	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ.....V.KEGDEI	IGSETKVVKNKMAPPFRQAEFQILYGKGV	N	QLGELVDLAVQQN	IVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ.....V.KEGDEI	VGSETKVVKNKMAPPFKAEIFQILYGKGT	N	QLGELVDLAVQQD	IVQKAGAWYSYQ	293
consensus	*!!**!* *	* ** *****!!*!!*!!*! *	*****!!*!*** ***** *	*** ! !*****!		

logo

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	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	ENAKKYLAADNPEV	FAEIDHQVRVQFGL	LIDGEEAAE	...	SKK....DE....VAQVDS..VNEEVTLDLGDE	377
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLAADNPEIF	DEIDHQVRVQFGL	LIDGEEIAE	...	SKK....DE....AAQVDS..VNEEVTLDLGDE	377
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAVASE	...	E.....TDDLALDLNNG	373
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEEKQSSKEK	...	ETDEK..ADKNLVLELDDT	378
NTDB id 115 BSU 16940 NP 389576.2	EERLGGG	RENAKQFLKENKD	IMLMIQEQIREHYGL	DNNGVVQQAAETQE	...	EL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGS	RENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPPEEDLPTTEDE	...	QI.NILPDDST....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGS	KEKTIAIYIAERPEME	QEIRDRVMAAIRAGNAGEAPALAPAPAAPEAA	EA	.....	.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGGG	RENSKAFLENPEIA	DEITKAIQNSMCI	EGMI	...	SGSEDD..EGEE.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGG	RENAKALLKEDKAL	ADEITLKI	KESIGSNEEI	...	MPLPDE..PLEEME.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGG	RENAKALLKEDKAL	ADEITLKI	KESIGSNEEI	...	MPLPDE..PLEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGG	RDTVKELIKDNPEL	AEELEAKIREKLQAK	.....	.....	.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQG	KNNAVKWLKENPEIA	DKLEQEIRNTLASNPNS	...	VLKATASDSN	DES	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGVEMHI	...	TEGTQDETD	...	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGVEMHI	...	TEGTQDETD	...	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGVEMHI	...	TEGTQDETD	...	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCREFLRENAEL	AREIENKVVREHL	GVTPMG	...	AVTL.AEEVEED	352
NTDB id 378311 FR801 RS05635 WP 003037330.1	GEKIGQG	KANATNWLKENPATA	KIEKKLRELLLNQDS	...	TPDFSVDSDG	EDV..KETN.....EDF	354
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQG	KANACKYLVKENPEIA	KTLDKKLREMLLNPNEM	...	QLIAETSSAA	DDVEFGAVP.....EEF	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQG	KANACKYLVKENPEIA	KTLDKKLREMLLNPNEM	...	QLIAETSSAA	DDVEFGAVP.....EEF	354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQG	KANAAYYLEENPEIG	QIEQQIRAKLLVTSAN	...	TKATPVAEDLADADI	.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQG	KNNVIRYLEENPQ	ISTEIEAVIREQLLTKASD	...	QTAA.HDETEE	EPDLLES	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQG	KNNVIRYFEENNQ	IAEEIERNIREQLLTTGTN	...	GAVQ.I.EDEE	EPDLLES	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 527 SMSK321 RS11065 WP 001085454.1	LEIEIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	LEIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	IEIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..	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 1427 RS RS02760 WP 011000510.1	.....	352
NTDB id 378311 FR801 RS05635 WP 003037330.1	.....	354
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		

- X non conserved
- X similar
- X ≥ 50% conserved