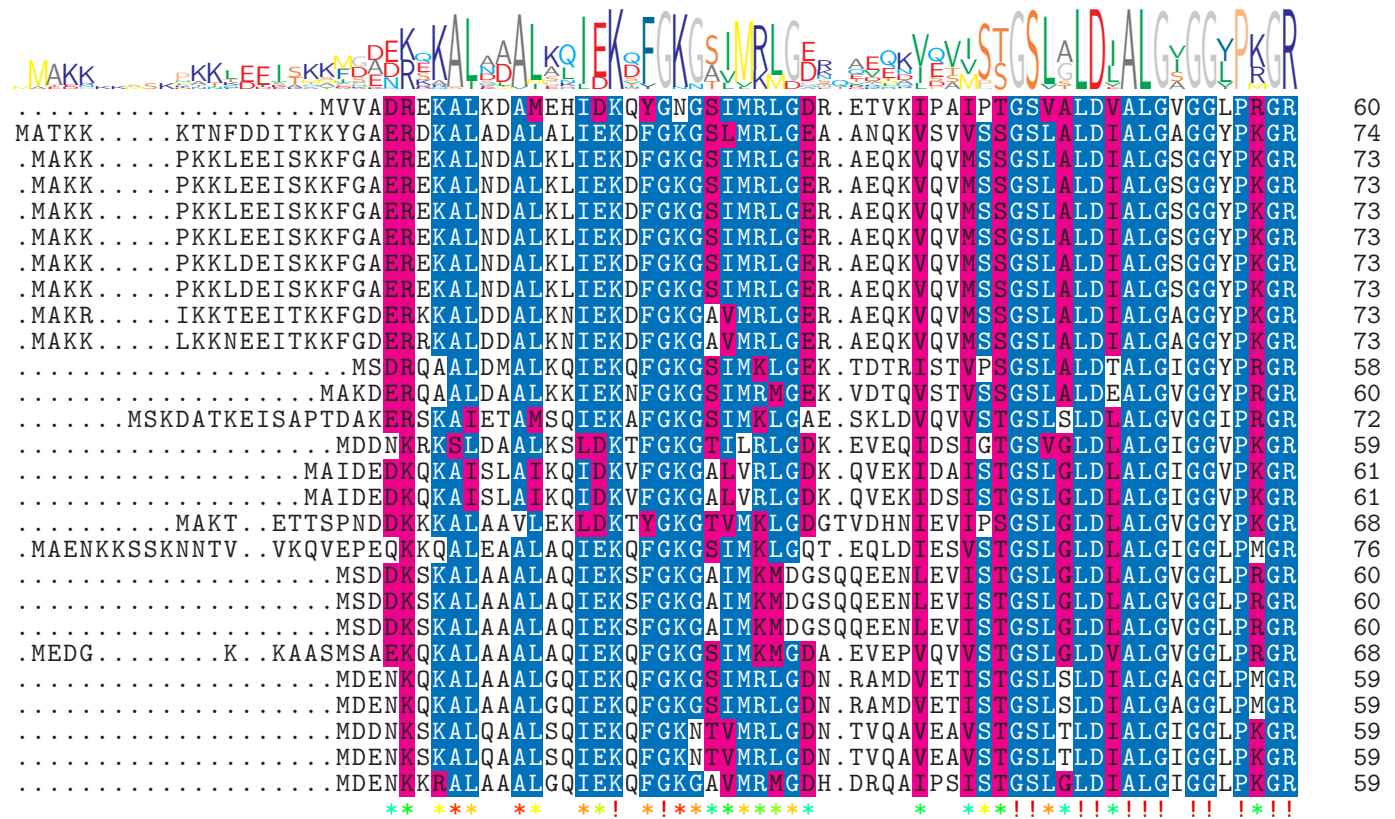


NTDB id 160106 ASQ49 RS13580 WP 015070244.1
NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 453 Spy49 1753c ACI62003.1
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 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
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NTDB id 160106 ASQ49 RS13580 WP 015070244.1	SVRLDVRRIQTLKDGD....EMVGNRTRVKVVKNKVAPPFKEAEFDILYGGQGISREGSLIDMGVDCAIIRKSGSWYTYN	294
NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITIKVVKVKNKVAPPFKEALVDIMFGEGISSTGELLNIAVEEGI IKKSGAWFAYN	312
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDIIKKAGAWYSYK	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDIIKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDIIKKAGAWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDIIKKAGAWYSYK	311
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKVKNKVAPPFKEAFVEIMYEGEGISKTGELLKIASDLDIIKKAGAWYSYK	311
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKVKNKVAPPFKEAFVEIMYEGEGISKTGELLKIASDLDIIKKAGAWYSYK	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKVKNKVAPPFKEAFVEI IYEGEGISRTGELVKIASDLDGIIQKAGAWYSYN	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSSIGKETKIKVVKVKNKVAPPFKEAEVEIMYEGEGISRTGELVKIASDLDIIQKAGAWFSYN	311
NTDB id 115 BSU 16940 NP 389576.2	SVRLDVRRAEQLKQGN.....DVMGNKTKIKVVKVKNKVAPPFRTAEVDIMYEGEGISKEGEIIDLGTELDI VQKSGSWYSYE	292
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLDVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKEAEVDIMYGGQGISRTGELVDMAVEKDIINKSGSWYSYG	294
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGNDAAVANTVKIKTVKNKVAAPFKEVELALVYGKGFQDQLSDLVGLAADMDIIKKAGSFYSYG	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEPIGNRVKVVKNKVKNVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEVIGNRTKVVVKNKVAPPFKSAEFDIMYEGEGVSKVGEILDVATDLDIIQKSGSWFSYQ	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDIEIGSETKVVVKVKNKVAPPFREVFQFDIMYEGEGISRMNELLILAEANGFIKKSGAWFSYD	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.KKGEDEVVGNETKVVVKVKNKVAPPFREAI FIDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYN	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 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEIVGSETKVVVKVKNKMAPPFREAI FQILYGKGYNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIVGSETKVVVKVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEVVGSETRVRKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWAYK	293
consensus	*!!**!* * ** *****!*****!!*!!*!!* * *****!*!*** ***** ** ***** ! !*****!	

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NTDB id 160106 ASQ49 RS13580 WP 015070244.1	ETEQLGQGGKENVRKFLKENTEVAAEIESKIRIRMGIDTDDEVPAEVDPKTG....EV.MF.....	349
NTDB id 600 KW2 RS01765 WP 011675413.1	D.EKIGQGAEKAKNNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETTA....SKTKAKAKKEEKAVETEEIELELED	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	D.EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKK....DE....PKKEEA..VNEEVPLDLGD	380
NTDB id 228 SPD RS09265 WP 001085462.1	D.EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKK....DE....PKKEEA..VNEEVPLDLGD	380
NTDB id 194 SPR RS08825 WP 001085462.1	D.EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKK....DE....PKKEEA..VNEEVPLDLGD	380
NTDB id 159 SP RS09750 WP 001085462.1	D.EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKK....DE....PKKEEA..VNEEVPLDLGD	380
NTDB id 527 SMSK321 RS11065 WP 001085454.1	D.EKIGQGSENAKKYLAENPEVFAEIDHQVRVQFGLIDGEEAAE....SKK....DE....VAQVDS..VNEEVTLDLGD	376
NTDB id 499 SM12261 RS08315 WP 078228268.1	D.EKIGQGSENAKKYLAENPEIFDEIDHQVRVQFGLIDGEEIAE....SKK....DE....AAQVDS..VNEEVTLDLGD	376
NTDB id 408 SMU RS09530 WP 002262392.1	G.EKIGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEEKQSSKEK.....ETDEK..ADKNLVLELDD	377
NTDB id 453 Spy49 1753c ACI62003.1	G.EKIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLDN	372
NTDB id 115 BSU 16940 NP 389576.2	E.ERLGQGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAETQE....EL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	S.ERIGQGGRENAKNYLADHEDVEDEVRLKVRAAYGISTDVPEEDLPTTEDE....QI.NILPDDST.....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	D.ERIGQGGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	D.KKLGQGGRENSKAFLENPEIADEITKAIQNSMGIEGMI....SGSEDD..EGEE.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	D.KKLGQGGRENAKALLKEDKALADEITLKIKESIGSNEEI....MPLPDE..PLEEME.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	D.KKLGQGGRENAKALLKEDKALADEITLKIKESIGSNEEI....MPLPDE..PLEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	D.TKLGQGRDTPVKELTKDNPELAEELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	G.TKIGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNS....VLKATASDSNDESDVEEF.....SEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	G.AKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGDGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	G.AKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGDGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	G.AKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGDGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	G.ERIGQGRDNCREFLRENAELAREIENKVRHLGVTPMG....AVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	G.DKIGQGGKANACKYLLKENPEIAKTLDKKLREMLLNPNEM....QLIAETSSAADDVEFGAV.....PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	G.DKIGQGGKANACKYLLKENPEIAKTLDKKLREMLLNPNEM....QLIAETSSAADDVEFGAV.....PEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	G.NKIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASD....QTAA.HDETEEPDLL.....ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	G.NKIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTN....GAVQ.I.EDEEPEPDL.....LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	G.SKIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN....TKATPVAEDLADADI.....	347
consensus	**!!** * * * * *	

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NTDB id 160106 ASQ49 RS13580 WP 015070244.1		349
NTDB id 600 KW2 RS01765 WP 011675413.1		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	ELEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	ELEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	ELEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	ELEIEIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	ELEIEIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	ELEIEIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	TIELED..	383
NTDB id 453 Spy49 1753c ACI62003.1	GIEIED..	378
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 1165 A1552VC RS01565 WP 000344154.1	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	347
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved