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		MSRGGATPYRFLLLMEHLLEKIKKEYKLLVLCGLLYGGLFLLAKPAPQTPVKETNLQAEVAAVSKDLYSEK	
NTDB id 1159	ABDM36 RS04765 WP 001166105.1	.....MQI.....KTKIVTLFLSLC...LPTLPLLANAAE.....	27
NTDB id 1150	A1552VC RS08580 WP 001166105.1	.....MQI.....KTKIVTLFLSLC...LPTLPLLANAAE.....	27
NTDB id 1395	DSB67 RS04445 WP 010649155.1	.....MKWMLTLC...LLTLAPMSWAE.....	19
NTDB id 1294	VP RS04495 WP 021449594.1	.....MKWMLTLC...LVVFAPLSLAA.....	19
NTDB id 1362	HI 1008 AAC22669.1	.....M.....KTL..FTSVVLC...GALVVSSSFAEE.....	23
NTDB id 1382	A4U84 RS07375 WP 062924234.1	.....M.....KKLSRYTFSLLF...G.LFSATTFAEE.....	24
NTDB id 595	KW2 RS08725 WP 021037687.1	.....MEKILDKLKEYWKTMLLVVLCALTAGGIFYIFT.....NSPKPAETLSVEN..LSSS..STKSS	54
NTDB id 521	SMSK321 RS04960 WP 000443804.1	.....MESIIEKIKEYKIIVICTGLGLLVGGFFLLKP.....APHTPVKETNLQAEVVAISKDSSTEK	58
NTDB id 493	SM12261 RS04300 WP 000387351.1	.....MEAIIEKIKEYKIIVICTGLGLLVGGFFLLKP.....APQTPVKETNLQAEVVAISKDSVSEK	58
NTDB id 153	SP RS04730 WP 000387344.1	.....MEAIIEKIKEYKIIVICTGLGLLVGGFFLLKP.....APQTPVKETNLQAEVVAISKDSSTEK	58
NTDB id 263	KZH43 RS04195 WP 000387330.1	.....MEAIIEKIKEYKIIVICTGLGLLVGGFFLLKP.....APQTPVKETNLQAEVVAISKDLVSEK	58
NTDB id 222	SPD RS04535 WP 000387330.1	.....MEAIIEKIKEYKIIVICTGLGLLVGGFFLLKP.....APQTPVKETNLQAEVVAISKDLVSEK	58
NTDB id 188	SPR RS04295 WP 000387330.1	.....MEAIIEKIKEYKIIVICTGLGLLVGGFFLLKP.....APQTPVKETNLQAEVVAISKDLVSEK	58
NTDB id 36	MW RS08230 WP 001793467.1	.....MVLlyQFLLRYKDFLTQWKLYIISAVV.LIMVLIGFIFWRQDDYTSRNFENKDNALKQSTSE.....NSSLSKVE	69
NTDB id 20	SA RS08005 WP 001802022.1	.....MVLlyQFLLRYKDFLTQWKLYIISAVV.LIMVLIGFIFWRQDDYTSRNFENKDTALKQSTSE.....NNSLSKLE	69
NTDB id 105	BSU 25590 NP 390437.1	.....MNWLNQHKKAIILAAAS.....AAVFTAIMIFLATG..KNKEPVKQAVPT.....ETEN	46
NTDB id 1069	ABD1 RS03060 WP 043960841.1	.....MQY...S.MRFW..KNK.....YFVLIMLCL.....	20
NTDB id 1014	ACIAD RS13855 WP 004924483.1	.....MS..IRHFFT.....FFWATLL.....	15
NTDB id 152796	AEH96 RS08430 WP 002866798.1	.....	0
NTDB id 1242	Cj0011c YP 002343483.1	.....	0
NTDB id 1127	NGFG RS10560 WP 003703428.1	MSRGGATPYRFLLLIRHIVARCG.....LLFATLKGK.....	31
NTDB id 1126	NGFG RS09375 WP 003703428.1	MSRGGATPYRFLLLIRHIVARCG.....LLFATLKGK.....	31
NTDB id 1125	NGFG RS07215 WP 003703428.1	MSRGGATPYRFLLLIRHIVARCG.....LLFATLKGK.....	31
NTDB id 1108	NGFG RS06525 WP 003703428.1	MSRGGATPYRFLLLIRHIVARCG.....LLFATLKGK.....	31
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		EVKKEEKEEPLEQDLITVDVKGAVKSPGYMVEGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESAS	
NTDB id 1159	ABDM36 RS04765 WP 001166105.1	.....TAP.....AA.....Q.....	33
NTDB id 1150	A1552VC RS08580 WP 001166105.1	.....TAP.....AA.....Q.....	33
NTDB id 1395	DSB67 RS04445 WP 010649155.1	.....TKT.....KA.....D.....	25
NTDB id 1294	VP RS04495 WP 021449594.1	.....DT.....KA.....D.....	24
NTDB id 1362	HI 1008 AAC22669.1	.....KAT.....XQ.....TAQSVVT	35
NTDB id 1382	A4U84 RS07375 WP 062924234.1	.....KVT.....TS.....TEHTPVV	36
NTDB id 595	KW2 RS08725 WP 021037687.1	VSKFNSSSSEKNKNEIMVDLKGAVAKPNVYQISSDERLVDLIRQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESSSS	134
NTDB id 521	SMSK321 RS04960 WP 000443804.1	DVKKEEKEEPVEQDLITVDVKGAVKSPGIYDLSVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESAS	138
NTDB id 493	SM12261 RS04300 WP 000387351.1	EVKKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESAS	138
NTDB id 153	SP RS04730 WP 000387344.1	EVKKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESAS	138
NTDB id 263	KZH43 RS04195 WP 000387330.1	EVNKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESAS	138
NTDB id 222	SPD RS04535 WP 000387330.1	EVNKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESAS	138
NTDB id 188	SPR RS04295 WP 000387330.1	EVNKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESAS	138
NTDB id 36	MW RS08230 WP 001793467.1	DVQVKDGDNSKNKGPVYVDVKGAVKHPNVYKMTSKDRVVDLLDKA..QLLEDADVSRINLSEKLTQDKMIFIPKKGQKNVE	148
NTDB id 20	SA RS08005 WP 001802022.1	DVQVKDGDNSKNKGPVYVDVKGAVKHPNVYKMTSKDRVVDLLDKA..QLLEDADVSRINLSEKLTQDKMIFIPKKGQKNVE	148
NTDB id 105	BSU 25590 NP 390437.1	TVVKQEANNDESNETIVIDIKGAVQHPGVYEMRTGDRVSAIEKAGGTSEQADEAQVNLAIEILDGTVVYIPKKGEEETAV	126
NTDB id 1069	ABD1 RS03060 WP 043960841.1	.....G.VISPSVCAQSFQDNFQ.E...WKVKQMYDQKLNISK.....SSHS...	58
NTDB id 1014	ACIAD RS13855 WP 004924483.1	.....TLFSMQIVFAQGFQQYD.A...WKTQQAHDTRLNNSA.....SHHS...	54
NTDB id 152796	AEH96 RS08430 WP 002866798.1	.....MKKLLFLF..F.....	9
NTDB id 1242	Cj0011c YP 002343483.1	.....MKKLLFLF..F.....	9
NTDB id 1127	NGFG RS10560 WP 003703428.1	.....TMKKMFVLFMCL.....	43
NTDB id 1126	NGFG RS09375 WP 003703428.1	.....TMKKMFVLFMCL.....	43
NTDB id 1125	NGFG RS07215 WP 003703428.1TMKKMFVLFMCL.....	43
NTDB id 1108	NGFG RS06525 WP 003703428.1TMKKMFVLFMCL.....	43
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NTDB id 1159 ABDM36 RS04765 WP 001166105.1VEEGIVITVNINTASAEELATLLKGIKGLKKAQAIVDYREANGPFTHTIDDLTNVKGIGEAIVRNNA	99
NTDB id 1150 A1552VC RS08580 WP 001166105.1	.....VEEGIVITVNINTASAEELATLLKGIKGLKKAQAIVDYREANGPFTHTIDDLTNVKGIGEAIVRNNA	99
NTDB id 1395 DSB67 RS04445 WP 010649155.1	.....KYEGIEITVNVNSATAQEIATLLIGIGEKKAQDIVEYRNEHGPFKTAADLTKKVKGIGEAIVRKNED	91
NTDB id 1294 VP RS04495 WP 021449594.1	.....KYEGIEITVNINTASAEETATMLKGIKGLKKAQSIQVDRTEHGPFKTAADLTNVKGIGEAITIKKNED	90
NTDB id 1362 HI 1008 AAC22669.1	TQAEAQV.....APAVVSDKLNINTATASEIQKSLTIGIGAKKAEIVQYREKHGNFXNAEQLLEVQIGIGKATLEKNRD	108
NTDB id 1382 A4U84 RS07375 WP 062924234.1	MQQ.VAA.....TQKVNANVNINTATASEIQDKLVGIGAKKQAIVEYREKNGKFLNVEQLTEVSGIGKATLEKNRD	108
NTDB id 595 KW2 RS08725 WP 021037687.1	ESTDSPTGSSVSNQISTTSGPKVNINKADLTELQK.LTGIGQKKAQDIDFRMKNNGDFKSIEDLGKVSQFGDKTLEKDKD	213
NTDB id 521 SMSK321 RS04960 WP 000443804.1	QHTGSGAP.....SSTSCKDKKINLNKASLEELKQ.VKGLGGKRAQDIDHREANGKFKSVDELKVVSGIGAKTIEKDKD	211
NTDB id 493 SM12261 RS04300 WP 000387351.1	QQAGPGTA.....SSTSKEKKVNLNKASLEELKQ.VKGLGGKRAQDIDHREANGKFKSVDELKVVSGIGAKTIEKDKD	211
NTDB id 153 SP RS04730 WP 000387344.1	QQTGSGTA.....SSTSKEKKVNLNKASLEELKQ.VKGLGGKRAQDIDHREANGKFKSVDELKVVSGIGGKTIKDKD	211
NTDB id 263 KZH43 RS04195 WP 000387330.1	QQTGLGTA.....SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIDHREANGKFKSVDELKVVSGIGGKTIKDKD	211
NTDB id 222 SPD RS04535 WP 000387330.1	QQTGLGTA.....SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIDHREANGKFKSVDELKVVSGIGGKTIKDKD	211
NTDB id 188 SPR RS04295 WP 000387330.1	QQTGLGTA.....SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIDHREANGKFKSVDELKVVSGIGGKTIKDKD	211
NTDB id 36 MW RS08230 WP 001793467.1	PQIGVNS...VHVKNNGTNTNKVNLNTASVSELSMS.VPGVQAKANAIVEYRNQQGAFQEIDDLKVVKGFGSKTFDKLKS	224
NTDB id 20 SA RS08005 WP 001802022.1	PQIEVNS...VHVKNNGTNTNKVNLNTASVSELSMS.VPGVQAKANAIVEYRNQQGAFQEIDDLKVVKGFGSKTFDKLKS	224
NTDB id 105 BSU 25590 NP 390437.1	QQGGGGS...VQ..SDGGK GALVNINTATLEELQG.ISGVGPSKAEAIAYREENGRFQTIEDITKVSIGIGESFEKIKS	200
NTDB id 1069 ABD1 RS03060 WP 043960841.1	NSSKISQ...TK..NFNDSTGQTHLNQANVNEFQQ.LKGIGEKKAQAIVEYRQKNGSFKNIDEIKNVKIGIPAFIEKNKS	132
NTDB id 1014 ACIAD RS13855 WP 004924483.1	LSKPTQQ.....SGTGVKVNINSATAKELQK.LHGVGEKKALAIVEYRQYQKGFASVDDLQKVKGIGPKFIEKNRD	124
NTDB id 152796 AEH96 RS08430 WP 002866798.1	....ALT.....AFLFGAVNINTATLKLKLS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVVKGIGDKLFEKIKN	74
NTDB id 1242 Cj0011c YP 002343483.1	....ALT.....AFLFGAVNINTATLKLKLS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVVKGIGDKLFEKIKN	74
NTDB id 1127 NGFG RS10560 WP 003703428.1	....FSC.....AFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVVKGIGPAVLAKLKD	109
NTDB id 1126 NGFG RS09375 WP 003703428.1	....FSC.....AFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVVKGIGPAVLAKLKD	109
NTDB id 1125 NGFG RS07215 WP 003703428.1	....FSC.....AFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVVKGIGPAVLAKLKD	109
NTDB id 1108 NGFG RS06525 WP 003703428.1FSC.....AFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVVKGIGPAVLAKLKD	109

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NTDB id 1159 ABDM36 RS04765 WP 001166105.1	RILL.....	103
NTDB id 1150 A1552VC RS08580 WP 001166105.1	RILL.....	103
NTDB id 1395 DSB67 RS04445 WP 010649155.1	RILL.....	95
NTDB id 1294 VP RS04495 WP 021449594.1	RILL.....	94
NTDB id 1362 HI 1008 AAC22669.1	RIIF.....	112
NTDB id 1382 A4U84 RS07375 WP 062924234.1	CIVIE.....	113
NTDB id 595 KW2 RS08725 WP 021037687.1	EISID.....	218
NTDB id 521 SMSK321 RS04960 WP 000443804.1	YVTVD.....	216
NTDB id 493 SM12261 RS04300 WP 000387351.1	YVTVD.....	216
NTDB id 153 SP RS04730 WP 000387344.1	YVTVD.....	216
NTDB id 263 KZH43 RS04195 WP 000387330.1	YVTVD.....	216
NTDB id 222 SPD RS04535 WP 000387330.1	YVTVD.....	216
NTDB id 188 SPR RS04295 WP 000387330.1	YVTVD.....	216
NTDB id 36 MW RS08230 WP 001793467.1	YFTI.....	228
NTDB id 20 SA RS08005 WP 001802022.1	YFTI.....	228
NTDB id 105 BSU 25590 NP 390437.1	SITVK.....	205
NTDB id 1069 ABD1 RS03060 WP 043960841.1	RLAL.....	136
NTDB id 1014 ACIAD RS13855 WP 004924483.1	RLAI.....	128
NTDB id 152796 AEH96 RS08430 WP 002866798.1	DITVE.....	79
NTDB id 1242 Cj0011c YP 002343483.1	DITIE.....	79
NTDB id 1127 NGFG RS10560 WP 003703428.1	QASVGAPAPKGPAPKPVLPVAVKK	131
NTDB id 1126 NGFG RS09375 WP 003703428.1	QASVGAPAPKGPAPKPVLPVAVKK	131
NTDB id 1125 NGFG RS07215 WP 003703428.1	QASVGAPAPKGPAPKPVLPVAVKK	131
NTDB id 1108 NGFG RS06525 WP 003703428.1	QASVGAPAPKGPAPKPVLPVAVKK	131

consensus ***

 non conserved
 similar
 $\geq 50\%$ conserved