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NTDB id 595 KW2 RS08725 WP 021037687.1	MSRGGATPYRFLIRHIVARCGLFATLKGKTMKKMFVLFCM	56
NTDB id 521 SMSK321 RS04960 WP 000443804.1	ME.....KILDKIKEYWKIMLLVVCALIAGGIFYIFTNSPKPAETLSVEN..LSSS..STKSSVS	60
NTDB id 493 SM12261 RS04300 WP 000387351.1	ME.....SIIIEKIKEYKIIVICTGLGLLVGGFFLLKPAPHTPVKETNLQAEVVAISKDSSTEKDV	60
NTDB id 153 SP RS04730 WP 000387344.1	ME.....AIIIEKIKEYKIIVICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVVAVSKDSVSEKEV	60
NTDB id 263 KZH43 RS04195 WP 000387330.1	ME.....AIIIEKIKEYKIIVICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVAAVSKDSSTEKEV	60
NTDB id 222 SPD RS04535 WP 000387330.1	ME.....AIIIEKIKEYKIIVICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVAAVSKDLVSEKEV	60
NTDB id 188 SPR RS04295 WP 000387330.1	ME.....AIIIEKIKEYKIIVICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVAAVSKDLVSEKEV	60
NTDB id 1014 ACIAD RS13855 WP 004924483.1	MSIRHFFT...FFWAT.....LLTLFSM.....	20
NTDB id 1127 NGFG RS10560 WP 003703428.1	MSRGGATPYRFLIRHIVARCGLFATLKGKTMKKMFVLFCM.....	42
NTDB id 1126 NGFG RS09375 WP 003703428.1	MSRGGATPYRFLIRHIVARCGLFATLKGKTMKKMFVLFCM.....	42
NTDB id 1125 NGFG RS07215 WP 003703428.1	MSRGGATPYRFLIRHIVARCGLFATLKGKTMKKMFVLFCM.....	42
NTDB id 1108 NGFG RS06525 WP 003703428.1	MSRGGATPYRFLIRHIVARCGLFATLKGKTMKKMFVLFCM.....	42
NTDB id 1242 Cj0011c YP 002343483.1	MKKLLFLF.....	8
NTDB id 1272 LPP RS04360 WP 010946546.1	MKA...RLIAIILLSFIVIP.....	16
NTDB id 1249 GC085 RS04230 WP 010946546.1	MKA...RLIAIILLSFIVIP.....	16
NTDB id 1069 ABD1 RS03060 WP 043960841.1	MQYS.....MRFWK.NKYFVLIMLCLGVIS.....	24
NTDB id 1041 HON27 RS14740 WP 005124713.1	MQYS.....MRFWK.NKYFLLIMLCLGVIS.....	24
NTDB id 1294 VP RS04495 WP 021449594.1	MKWILTLCLLVFA.....	13
NTDB id 1395 DSB67 RS04445 WP 010649155.1	MKWMLTCLLILA.....	13
NTDB id 343845 EPB61 RS19285 WP 231623425.1		0
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	MQIKT.KIVTLFLSLCLPTLP.....	20
NTDB id 1150 A1552VC RS08580 WP 001166105.1	MQIKT.KIVTLFLSLCLPTLP.....	20
NTDB id 1382 A4U84 RS07375 WP 062924234.1	MKK.LSRYTFSLLFG.LFS.....	17
NTDB id 1362 HI 1008 AAC22669.1	MKT.L.FTSVVLCCGALVV.....	16
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NTDB id 595 KW2 RS08725 WP 021037687.1	KFNSSSSSEKNKNEIMVDLKGAVAKPNVYQISSDERLVDLIRQAGGFTDQADQKSI..NLSAKLKDEEVIYVPKVGESSSS	134
NTDB id 521 SMSK321 RS04960 WP 000443804.1	KKEEKEEPVEQDLITVDVKGAVKSPGIYDLSVGSRVNDAVQKAGGLTEQADSKSL..NLAQKVSDEALVYVPTKGEEAS	138
NTDB id 493 SM12261 RS04300 WP 000387351.1	KKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSL..NLAQKVSDEALVYVPTKGEEAAS	138
NTDB id 153 SP RS04730 WP 000387344.1	KKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSL..NLAQKVSDEALVYVPTKGEEAVS	138
NTDB id 263 KZH43 RS04195 WP 000387330.1	NKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSL..NLAQKVSDEALVYVPTKGEEAVS	138
NTDB id 222 SPD RS04535 WP 000387330.1	NKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSL..NLAQKVSDEALVYVPTKGEEAVS	138
NTDB id 188 SPR RS04295 WP 000387330.1	NKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSL..NLAQKVSDEALVYVPTKGEEAVS	138
NTDB id 1014 ACIAD RS13855 WP 004924483.1	QIV.....FAQGFDQYDAWKTQQKAHDTL.....NSSASH	52
NTDB id 1127 NGFG RS10560 WP 003703428.1	LF.....	44
NTDB id 1126 NGFG RS09375 WP 003703428.1	LF.....	44
NTDB id 1125 NGFG RS07215 WP 003703428.1	LF.....	44
NTDB id 1108 NGFG RS06525 WP 003703428.1	LF.....	44
NTDB id 1242 Cj0011c YP 002343483.1	FA.....	10
NTDB id 1272 LPP RS04360 WP 010946546.1	FSS.....QAENEPQK.....T	28
NTDB id 1249 GC085 RS04230 WP 010946546.1	FSS.....QAENEPQK.....T	28
NTDB id 1069 ABD1 RS03060 WP 043960841.1	PSV.....CAQSFQDNFQEWKVKQMYDQKL.....NISKSS	56
NTDB id 1041 HON27 RS14740 WP 005124713.1	PSV.....CAQSFQDNFQEWKAKQMYDQKL.....NITKSS	56
NTDB id 1294 VP RS04495 WP 021449594.1	PLS.....LAA..DTK.....	22
NTDB id 1395 DSB67 RS04445 WP 010649155.1	PMS.....WAE..TKTK.....	23
NTDB id 343845 EPB61 RS19285 WP 231623425.1	MAADS.....	5
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	LLA.....NAEETAPA.....	31
NTDB id 1150 A1552VC RS08580 WP 001166105.1	LLA.....NAEETAPA.....	31
NTDB id 1382 A4U84 RS07375 WP 062924234.1	ATT.....FAEEKVTTSTEHT.....PV.....VMQQ.V	40
NTDB id 1362 HI 1008 AAC22669.1	SSS.....FAEEKATXQTAQS.....VV.....TTQAEA	40
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NTDB id 595 KW2 RS08725 WP 021037687.1	ESTDSPGTGSSVSNQISTTSGPKVNINKADLT	EL.QKLTGIGQKKAQDIIDFRMKNNGDFKSI	EDLGKVS	GF	GDKT	LEKLKD	213
NTDB id 521 SMSK321 RS04960 WP 000443804.1	QHTGSGAP.....SSTS	KDKKINLNKASLEEL.KQVKGLGGKRAQDI	IDHREANGKFKSVDELKKVSGIGAKT	IEKLKD			211
NTDB id 493 SM12261 RS04300 WP 000387351.1	QQAGPGTA.....SSTS	KEKKVNLNKASLEEL.KQVKGLGGKRAQDI	IDHREANGKFKSVDELKKVSGIGAKT	IEKLKD			211
NTDB id 153 SP RS04730 WP 000387344.1	QQTGSGTA.....SSTS	KEKKVNLNKASLEEL.KQVKGLGGKRAQDI	IDHREANGKFKSVDELKKVSGIGGKT	IEKLKD			211
NTDB id 263 KZH43 RS04195 WP 000387330.1	QQTGLGTA.....SSIS	KEKKVNLNKASLEEL.KQVKGLGGKRAQDI	IDHREANGKFKSVDELKKVSGIGGKT	IEKLKD			211
NTDB id 222 SPD RS04535 WP 000387330.1	QQTGLGTA.....SSIS	KEKKVNLNKASLEEL.KQVKGLGGKRAQDI	IDHREANGKFKSVDELKKVSGIGGKT	IEKLKD			211
NTDB id 188 SPR RS04295 WP 000387330.1	QQTGLGTA.....SSIS	KEKKVNLNKASLEEL.KQVKGLGGKRAQDI	IDHREANGKFKSVDELKKVSGIGGKT	IEKLKD			211
NTDB id 1014 ACIAD RS13855 WP 004924483.1	HSLSKPT.....QQSGT	GVKVNINSATAKEL.QQLHGVGEKKALAI	VEYRQQYQKGFASVDDLQKVKGIGPKF	IEKNRD			124
NTDB id 1127 NGFG RS10560 WP 003703428.1	S	CAFSLAAVNINAASQQEL.EALPGIGPAKAKA	IAEYRAQNGAFKSVDDLIKVKGIGPAVL	AKLKD			109
NTDB id 1126 NGFG RS09375 WP 003703428.1	S	CAFSLAAVNINAASQQEL.EALPGIGPAKAKA	IAEYRAQNGAFKSVDDLIKVKGIGPAVL	AKLKD			109
NTDB id 1125 NGFG RS07215 WP 003703428.1	S	CAFSLAAVNINAASQQEL.EALPGIGPAKAKA	IAEYRAQNGAFKSVDDLIKVKGIGPAVL	AKLKD			109
NTDB id 1108 NGFG RS06525 WP 003703428.1	S	CAFSLAAVNINAASQQEL.EALPGIGPAKAKA	IAEYRAQNGAFKSVDDLIKVKGIGPAVL	AKLKD			109
NTDB id 1242 Cj0011c YP 002343483.1	L	TAFLFGANINTATLKE	L.KSLNGIGEAKAKAILEYRKE.ANFTS	IDDLKVKVGIGDKLFEKIKN			74
NTDB id 1272 LPP RS04360 WP 010946546.1	PAKQVL.....VKGK	INLNTADVSLTGSF	KGIGKKRAEAIAYRENHGGFKSLEELA	EVKVGIGQRFVDKNRE			96
NTDB id 1249 GC085 RS04230 WP 010946546.1	PAKQVL.....VKGK	INLNTADVSLTGSF	KGIGKKRAEAIAYRENHGGFKSLEELA	EVKVGIGQRFVDKNRE			96
NTDB id 1069 ABD1 RS03060 WP 043960841.1	HSNSSKI...SQT	KNFNDSTGQIHLNQANVNEF.QQLKGIG	EKKAKAIVEYRQKNGSFKNIDEIKNVK	GIGPAIFEK	NKS		132
NTDB id 1041 HON27 RS14740 WP 005124713.1	HSNGSKI...SQT	KNFNDSTGQIHLNQANVNEF.QQLKG	VGEKKAKAIVEYRQKNGSFKNIDEIKNVK	GIGPAIFEK	NKS		132
NTDB id 1294 VP RS04495 WP 021449594.1	ADKYEGI.....EIT	VNINTASAEIATMLKGIG	EKKAKQSIVDYRTEHGPFKTAADLT	NVKGIGEAT	TKKNED		90
NTDB id 1395 DSB7 RS04445 WP 010649155.1	ADKYEGI.....EIT	VNINTASAEIATMLKGIG	EKKAKQSIVDYRTEHGPFKTAADLT	TKVKGIG	EATVRKNED		91
NTDB id 343845 EPB61 RS19285 WP 231623425.1	AQVSEI.....EIT	VNINTAPAEELATLLKGIGL	KKAKAIVEYREANGAFQSKQELTQV	KGIGPSIVAK	ND		73
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	AQVEEGI.....VIT	VNINTASAEELATLLKGIGL	KKAKAIVDYREANGPFTHIDDLTNV	KGIGEATVR	NNAA		99
NTDB id 1150 A1552VC RS08580 WP 001166105.1	AQVEEGI.....VIT	VNINTASAEELATLLKGIGL	KKAKAIVDYREANGPFTHIDDLTNV	KGIGEATVR	NNAA		99
NTDB id 1382 A4U84 RS07375 WP 062924234.1	AATQKVN.....ANV	VNINTATASEIQDKLVGIG	AKKAKAIVEYREKNGKFLNVEQLTEV	SGIGKATLEK	NRD		108
NTDB id 1362 HI 1008 AAC22669.1	QVAPAVV.....SDK	LNINTATASEIQKSLTGIG	AKKAEAIQYREKHGNFXNAEQLL	EVQGIGKATLEK	NRD		108
consensus		***! !* ** ***!! *!***!***!* ** !***** *!***! ***** **					

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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 1014 ACIAD RS13855 WP 004924483.1	RLAI.....	128
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
NTDB id 1242 Cj0011c YP 002343483.1	DTTIE.....	79
NTDB id 1272 LPP RS04360 WP 010946546.1	KLKEIFVIN.....	105
NTDB id 1249 GC085 RS04230 WP 010946546.1	KLKEIFVIN.....	105
NTDB id 1069 ABD1 RS03060 WP 043960841.1	RLAL.....	136
NTDB id 1041 HON27 RS14740 WP 005124713.1	RLAL.....	136
NTDB id 1294 VP RS04495 WP 021449594.1	RILL.....	94
NTDB id 1395 DSB67 RS04445 WP 010649155.1	RILL.....	95
NTDB id 343845 EPB61 RS19285 WP 231623425.1	RILL.....	77
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	RILL.....	103
NTDB id 1150 A1552VC RS08580 WP 001166105.1	RILL.....	103
NTDB id 1382 A4U84 RS07375 WP 062924234.1	CIVIE.....	113
NTDB id 1362 HI 1008 AAC22669.1	RITIF.....	112
consensus	* *	

 non conserved
 similar
 $\geq 50\%$ conserved