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		MEAIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPQ...TPVKETNLQAEVVAISKDSS...TEKDVKKE	
NTDB id 1272 LPP RS04360 WP 010946546.1	MSIRHFFTFFWATLL.....		0
NTDB id 1249 GC085 RS04230 WP 010946546.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFEN....KDTALKQSTSENNLSKL.EDVQVK		0
NTDB id 1362 HI 1008 AAC22669.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFEN....KDNALKQSTSENNSSLSKV.EDVQVK		0
NTDB id 1382 A4U84 RS07375 WP 062924234.1	...MESIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPH...TPVKETNLQAEVVAISKDSS.....TEKDVKKE		0
NTDB id 1069 ABD1 RS03060 WP 043960841.1	...MEAIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPQ...TPVKETNLQAEVVAVSKDSV.....SEKEVKKE		0
NTDB id 1041 HON27 RS14740 WP 005124713.1	...MEAIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPQ...TPVKETNLQAEVAAVSKDSS.....TEKEVKKE		0
NTDB id 1242 Cj0011c YP 002343483.1	...MEAIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPQ...TPVKETNLQAEVAAVSKDLV.....SEKEVNKE		0
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	...MEAIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPQ...TPVKETNLQAEVAAVSKDLV.....SEKEVNKE		0
NTDB id 1150 A1552VC RS08580 WP 001166105.1	...MEAIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPQ...TPVKETNLQAEVAAVSKDLV.....SEKEVNKE		0
NTDB id 1294 VP RS04495 WP 021449594.1			0
NTDB id 1395 DSB67 RS04445 WP 010649155.1			0
NTDB id 1014 ACIAD RS13855 WP 004924483.1	MSIRHFFTFFWATLL.....		15
NTDB id 20 SA RS08005 WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFEN....KDTALKQSTSENNLSKL.EDVQVK		74
NTDB id 36 MW RS08230 WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFEN....KDNALKQSTSENNSSLSKV.EDVQVK		74
NTDB id 521 SMSK321 RS04960 WP 000443804.1	...MESIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPH...TPVKETNLQAEVVAISKDSS.....TEKDVKKE		63
NTDB id 493 SM12261 RS04300 WP 000387351.1	...MEAIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPQ...TPVKETNLQAEVVAVSKDSV.....SEKEVKKE		63
NTDB id 153 SP RS04730 WP 000387344.1	...MEAIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPQ...TPVKETNLQAEVAAVSKDSS.....TEKEVKKE		63
NTDB id 263 KZH43 RS04195 WP 000387330.1	...MEAIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPQ...TPVKETNLQAEVAAVSKDLV.....SEKEVNKE		63
NTDB id 222 SPD RS04535 WP 000387330.1	...MEAIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPQ...TPVKETNLQAEVAAVSKDLV.....SEKEVNKE		63
NTDB id 188 SPR RS04295 WP 000387330.1	...MEAIIEKIKE...YKIIIVIC.TGLGLLVGGFFLLKPAPQ...TPVKETNLQAEVAAVSKDLV.....SEKEVNKE		63
NTDB id 1127 NGFG RS10560 WP 003703428.1			0
NTDB id 1126 NGFG RS09375 WP 003703428.1			0
NTDB id 1125 NGFG RS07215 WP 003703428.1			0
NTDB id 1108 NGFG RS06525 WP 003703428.1			0
NTDB id 105 BSU 25590 NP 390437.1	.MNW.....LNQ...HKKAIIL.AASAAVFTA.IMIFLATGKNKEPVKQA.....VPTE.....TENTVVKQ		51
NTDB id 613 LCA RS05340 WP 231952379.1	.MMWQDYWQRYRR...FWWVPCL.VLLGIIAGGF..YWHQSQQK.QKVTQN....EQLLATSASKTK.....PATKK		60
NTDB id 300 STER RS07485 WP 011681496.1	..MKEKILAYVKD...NR.LFVS.VIAVLMVIFCFFLWMTCGAG.NSMEAETSYTDVTALSTSSSKQSSQSLSEASSQSK		72
NTDB id 283967 C7M34 RS16930 WP 262352644.1			0
NTDB id 595 KW2 RS08725 WP 021037687.1	...MEKILDKLKE...YWKIMLL.VVCALIAGGIFYIFTNSPKP....AE..TLSVENLSSSSTKS.....SVSKFN		59
consensus			

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NTDB id 1272 LPP RS04360 WP 010946546.1	MKARLTA.IILS...FIVIPFSSQAENEPQ.	26
NTDB id 1249 GC085 RS04230 WP 010946546.1	MKARLTA.IILS...FIVIPFSSQAENEPQ.	26
NTDB id 1362 HI 1008 AAC22669.1	MKTLL.FTSVVLGCALVVSSSFEEKATXQT	29
NTDB id 1382 A4U84 RS07375 WP 062924234.1	MKKLSRYTFSLLFG.LFSATTFAEEKVTTST	30
NTDB id 1069 ABD1 RS03060 WP 043960841.1	MQYSMRFWKNKYFVLIMLCLGVISP.....SVCAQSFQDNFQEWKV	41
NTDB id 1041 HON27 RS14740 WP 005124713.1	MQYSMRFWKNKYFLLIMLCLGVISP.....SVCAQSFQDNFQEWKA	41
NTDB id 1242 Cj0011c YP 002343483.1		0
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	MQIKTKIVTLFLSLCL.PTLPLLANAEETAP..	30
NTDB id 1150 A1552VC RS08580 WP 001166105.1	MQIKTKIVTLFLSLCL.PTLPLLANAEETAP..	30
NTDB id 1294 VP RS04495 WP 021449594.1	MKWILTLCL.VVFAPLSLAA..DT..	21
NTDB id 1395 DSB67 RS04445 WP 010649155.1	MKWMLTLCL.LILAPMSWAE.TKT..	22
NTDB id 1014 ACIAD RS13855 WP 004924483.1	TLFSMQ.IVFAQGFDDQYDAWKT	37
NTDB id 20 SA RS08005 WP 001802022.1	DGDNSKNKGPVYVDVKGAVKHPNVYKMTS.KDRVVDLLDKAQ.LLDDADVSRINLSEKLTQDK.MIFIPHKGQKNVEPQI	151
NTDB id 36 MW RS08230 WP 001793467.1	DGDNSKNKGPVYVDVKGAVKHPNVYKMTS.KDRVVDLLDKAQ.LLEDADVSRINLSEKLTQDK.MIFIPHKGQKNVEPQI	151
NTDB id 521 SMSK321 RS04960 WP 000443804.1	EKEEPVEQDLITVDVKGAVKSPGIYDLSV.GSRVNDAVQKAGGLTEQADSXSLSNLAQKVSDEA.LVYVPTKGEEASQHT	141
NTDB id 493 SM12261 RS04300 WP 000387351.1	EKEEPLEQDLITVDVKGAVKSPGIYDLPV.GSRVNDAVQKAGGLTEQADSXSLSNLAQKVSDEA.LVYVPTKGEEAASQQA	141
NTDB id 153 SP RS04730 WP 000387344.1	EKEEPLEQDLITVDVKGAVKSPGIYDLPV.GSRVNDAVQKAGGLTEQADSXSLSNLAQKVSDEA.LVYVPTKGEEAVSQQT	141
NTDB id 263 KZH43 RS04195 WP 000387330.1	EKEEPLEQDLITVDVKGAVKSPGIYDLPV.GSRVNDAVQKAGGLTEQADSXSLSNLAQKVSDEA.LVYVPTKGEEAVSQQT	141
NTDB id 222 SPD RS04535 WP 000387330.1	EKEEPLEQDLITVDVKGAVKSPGIYDLPV.GSRVNDAVQKAGGLTEQADSXSLSNLAQKVSDEA.LVYVPTKGEEAVSQQT	141
NTDB id 188 SPR RS04295 WP 000387330.1	EKEEPLEQDLITVDVKGAVKSPGIYDLPV.GSRVNDAVQKAGGLTEQADSXSLSNLAQKVSDEA.LVYVPTKGEEAVSQQT	141
NTDB id 1127 NGFG RS10560 WP 003703428.1	MSRGGATPY...RFLLRHIVARCG.LLFATLKGKTMKKMF.	37
NTDB id 1126 NGFG RS09375 WP 003703428.1	MSRGGATPY...RFLLRHIVARCG.LLFATLKGKTMKKMF.	37
NTDB id 1125 NGFG RS07215 WP 003703428.1	MSRGGATPY...RFLLRHIVARCG.LLFATLKGKTMKKMF.	37
NTDB id 1108 NGFG RS06525 WP 003703428.1	MSRGGATPY...RFLLRHIVARCG.LLFATLKGKTMKKMF.	37
NTDB id 105 BSU 25590 NP 390437.1	EANNDESNETIVIDIKGAVQHPGVYEMRT.GDRVSAIEKAGGTSEQADEAQVNLAIEILQDGT.VVYIPKKGEETAVQQG	129
NTDB id 613 LCA RS05340 WP 231952379.1	THQAATKKKGGFVDIKGAVVYPGIYPITVSETRLFEVLKNAGGPTDAADTXRLNLAQKLTQDL.IIYIPKKGEVVTQDEL	139
NTDB id 300 STER RS07485 WP 011681496.1	TEGSEKVKSKVTVDVKGAVVNPGVYTLKA.GARVTDVIQEAGGMTEDADAKSVNLAASLSDEE.VIYVANKDENVSVDLQ	150
NTDB id 283967 C7M34 RS16930 WP 262352644.1		0
NTDB id 595 KW2 RS08725 WP 021037687.1	SSSSEKNKNEIMVDLKGAVAKPNVYQISS.DERLVDLIRQAGGFTDQADQXSINLSAKLKDEE.VIYVPKVGESSSSEST	137
consensus	* * * * *	

NTDB id 1272 LPP RS04360 WP 010946546.1
NTDB id 1249 GC085 RS04230 WP 010946546.1
NTDB id 1362 HI 1008 AAC22669.1
NTDB id 1382 A4U84 RS07375 WP 062924234.1
NTDB id 1069 ABD1 RS03060 WP 043960841.1
NTDB id 1041 HON27 RS14740 WP 005124713.1
NTDB id 1242 Cj0011c YP 002343483.1
NTDB id 1159 ABDM36 RS04765 WP 001166105.1
NTDB id 1150 A1552VC RS08580 WP 001166105.1
NTDB id 1294 YP RS04495 WP 021449594.1
NTDB id 1395 DSB67 RS04445 WP 010649155.1
NTDB id 1014 ACIAD RS13855 WP 004924483.1
NTDB id 20 SA RS08005 WP 001802022.1
NTDB id 36 MW RS08230 WP 001793467.1
NTDB id 521 SMSK321 RS04960 WP 000443804.1
NTDB id 493 SM12261 RS04300 WP 000387351.1
NTDB id 153 SP RS04730 WP 000387344.1
NTDB id 263 KZH43 RS04195 WP 000387330.1
NTDB id 222 SPD RS04535 WP 000387330.1
NTDB id 188 SPR RS04295 WP 000387330.1
NTDB id 1127 NGFG RS10560 WP 003703428.1
NTDB id 1126 NGFG RS09375 WP 003703428.1
NTDB id 1125 NGFG RS07215 WP 003703428.1
NTDB id 1108 NGFG RS06525 WP 003703428.1
NTDB id 105 BSU 25590 NP 390437.1
NTDB id 613 LCA RS05340 WP 231952379.1
NTDB id 300 STER RS07485 WP 011681496.1
NTDB id 283967 C7M34 RS16930 WP 262352644.1
NTDB id 595 KW2 RS08725 WP 021037687.1
consensus

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NTDB id 1272 LPP RS04360 WP 010946546.1	GIGQRFVDKNREKIKEIFVIN.....	105
NTDB id 1249 GC085 RS04230 WP 010946546.1	GIGQRFVDKNREKIKEIFVIN.....	105
NTDB id 1362 HI 1008 AAC22669.1	GIGKATLEKNRDRIF.....	112
NTDB id 1382 A4U84 RS07375 WP 062924234.1	GIGKATLEKNRDCIVIE.....	113
NTDB id 1069 ABD1 RS03060 WP 043960841.1	GIGPAIFEKNKSRILAL.....	136
NTDB id 1041 HON27 RS14740 WP 005124713.1	GIGPAIFEKNKSRILAL.....	136
NTDB id 1242 Cj0011c YP 002343483.1	GIGDKLFEEKIKNDITIE.....	79
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	GIGEATVRNNAARILL.....	103
NTDB id 1150 A1552VC RS08580 WP 001166105.1	GIGEATVRNNAARILL.....	103
NTDB id 1294 VP RS04495 WP 021449594.1	GIGEATIKKNEDRILL.....	94
NTDB id 1395 DSB67 RS04445 WP 010649155.1	GIGEATVRKNEDRILL.....	95
NTDB id 1014 ACIAD RS13855 WP 004924483.1	GIGPKFIEKNRDLAI.....	128
NTDB id 20 SA RS08005 WP 001802022.1	GFGSKTFDKLKSFTI.....	228
NTDB id 36 MW RS08230 WP 001793467.1	GFGSKTFDKLKSFTI.....	228
NTDB id 521 SMSK321 RS04960 WP 000443804.1	GIGAKTIEKLKDYVTVD.....	216
NTDB id 493 SM12261 RS04300 WP 000387351.1	GIGAKTIEKLKDYVTVD.....	216
NTDB id 153 SP RS04730 WP 000387344.1	GIGGKTIEKLKDYVTVD.....	216
NTDB id 263 KZH43 RS04195 WP 000387330.1	GIGGKTIEKLKDYVTVD.....	216
NTDB id 222 SPD RS04535 WP 000387330.1	GIGGKTIEKLKDYVTVD.....	216
NTDB id 188 SPR RS04295 WP 000387330.1	GIGGKTIEKLKDYVTVD.....	216
NTDB id 1127 NGFG RS10560 WP 003703428.1	GIGPAVLAKLKDQASVGAPAPKGPVLPVAVKK	131
NTDB id 1126 NGFG RS09375 WP 003703428.1	GIGPAVLAKLKDQASVGAPAPKGPVLPVAVKK	131
NTDB id 1125 NGFG RS07215 WP 003703428.1	GIGPAVLAKLKDQASVGAPAPKGPVLPVAVKK	131
NTDB id 1108 NGFG RS06525 WP 003703428.1	GIGPAVLAKLKDQASVGAPAPKGPVLPVAVKK	131
NTDB id 105 BSU 25590 NP 390437.1	GIGKSFEEKIKSSITVK.....	205
NTDB id 613 LCA RS05340 WP 231952379.1	GIGPKTFEQLQSQICVN.....	235
NTDB id 300 STER RS07485 WP 011681496.1	GIGDKTLDKIRESLYVA.....	231
NTDB id 283967 C7M34 RS16930 WP 262352644.1	GFGEKTVAKYKDQLTV.....	54
NTDB id 595 KW2 RS08725 WP 021037687.1	GFGDKTLEKLKDEISID.....	218
consensus	! * ! * * * * * * * * * * * *	

- non conserved
- similar
- ≥ 50% conserved