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	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAEV.AAVSK..DLVSEKEVNKEEKEEPL	
NTDB id 595 KW2 RS08725 WP 021037687.1	MEKILDKLKEYWKIM.LLVVCALIAGGIFYIFTNSPKPAETLSVEN...LSSS...STKSSVSKFNSSSSEK	65
NTDB id 521 SMSK321 RS04960 WP 000443804.1	MESIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPHTPVKETNLQAEV.VAISK..DSSTEKDVKKEEKEEPV	69
NTDB id 493 SM12261 RS04300 WP 000387351.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAEV.VAVSK..DSVSEKEVNKEEKEEPL	69
NTDB id 153 SP RS04730 WP 000387344.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAEV.AAVSK..DSSTEKEVNKEEKEEPL	69
NTDB id 263 KZH43 RS04195 WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAEV.AAVSK..DLVSEKEVNKEEKEEPL	69
NTDB id 222 SPD RS04535 WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAEV.AAVSK..DLVSEKEVNKEEKEEPL	69
NTDB id 188 SPR RS04295 WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAEV.AAVSK..DLVSEKEVNKEEKEEPL	69
NTDB id 1069 ABD1 RS03060 WP 043960841.1		0
NTDB id 1041 HON27 RS14740 WP 005124713.1		0
NTDB id 36 MW RS08230 WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20 SA RS08005 WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	80
NTDB id 105 BSU 25590 NP 390437.1	MNWLNQHKKAIIILAASAAVFTAIMIFLATG....KNKE....PVKQAVPTE....TENTVVKQEANNDE	57
NTDB id 1014 ACIAD RS13855 WP 004924483.1		0
NTDB id 105240 R8665 RS00055 WP 317677003.1		0
NTDB id 1242 Cj0011c YP 002343483.1		0
NTDB id 1127 NGFG RS10560 WP 003703428.1	MSRGG	5
NTDB id 1126 NGFG RS09375 WP 003703428.1	MSRGG	5
NTDB id 1125 NGFG RS07215 WP 003703428.1	MSRGG	5
NTDB id 1108 NGFG RS06525 WP 003703428.1	MSRGG	5
NTDB id 1159 ABDM36 RS04765 WP 001166105.1		0
NTDB id 1150 A1552VC RS08580 WP 001166105.1		0
NTDB id 1395 DSB67 RS04445 WP 010649155.1		0
NTDB id 1294 VP RS04495 WP 021449594.1		0
NTDB id 1362 HI 1008 AAC22669.1		0
NTDB id 1382 A4U84 RS07375 WP 062924234.1		0
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NTDB id 595 KW2 RS08725 WP 021037687.1	NKNEIMVDLKGAVAKPNVYQIS.....SDERL..VDLIRQAGGFTDQADQKSINLSAKLKDDEEVIYVPKVGESSSSSE	135
NTDB id 521 SMSK321 RS04960 WP 000443804.1	EQDLITVDVKGAVKSPGIYDLS.....VGSRV..NDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEASASQ	139
NTDB id 493 SM12261 RS04300 WP 000387351.1	EQDLITVDVKGAVKSPGIYDLP.....VGSRV..NDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAASQ	139
NTDB id 153 SP RS04730 WP 000387344.1	EQDLITVDVKGAVKSPGIYDLP.....VGSRV..NDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQ	139
NTDB id 263 KZH43 RS04195 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLP.....VGSRV..NDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQ	139
NTDB id 222 SPD RS04535 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLP.....VGSRV..NDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQ	139
NTDB id 188 SPR RS04295 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLP.....VGSRV..NDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQ	139
NTDB id 1069 ABD1 RS03060 WP 043960841.1	MQYSMRFWKNKYFVLIMLCLGVI...SPSVCAQSFDQNFQEWKVKQQM..YDQK.....LN	51
NTDB id 1041 HON27 RS14740 WP 005124713.1	MQYSMRFWKNKYFLLIMLCLGVI...SPSVCAQSFDQNFQEWKAKQQM..YDQK.....LN	51
NTDB id 36 MW RS08230 WP 001793467.1	NKGPVYVDVKGAVKHPNVYKMT.....SKDRVV...DILDKAQLLEDADVSQINLSEKLTDDQKMIFIPHKGQKNVEP	149
NTDB id 20 SA RS08005 WP 001802022.1	NKGPVYVDVKGAVKHPNVYKMT.....SKDRVV...DILDKAQLLEDADVSRINLSEKLTDDQKMIFIPHKGQKNVEP	149
NTDB id 105 BSU 25590 NP 390437.1	SNETIVIDIKGAVQHHPGVYEM.....RTGDRV.SQATEKAGGTSEQADEAQVNLAIEILQDGTVVYIPKKGEETAV.	126
NTDB id 1014 ACIAD RS13855 WP 004924483.1	MSIRHFFT...FFWAT.....LL..TLFSMQIVFAQGFDQYDAW.....KTQQKAHDTRLN	47
NTDB id 105240 R8665 RS00055 WP 317677003.1	MKKLLFLF.....	8
NTDB id 1242 Cj0011c YP 002343483.1	MKKLLFLF.....	8
NTDB id 1127 NGFG RS10560 WP 003703428.1	ATPYRFLIRHIVARCGLLFAT.....LKGXTMKKMFVLFCEM.....	42
NTDB id 1126 NGFG RS09375 WP 003703428.1	ATPYRFLIRHIVARCGLLFAT.....LKGXTMKKMFVLFCEM.....	42
NTDB id 1125 NGFG RS07215 WP 003703428.1	ATPYRFLIRHIVARCGLLFAT.....LKGXTMKKMFVLFCEM.....	42
NTDB id 1108 NGFG RS06525 WP 003703428.1	ATPYRFLIRHIVARCGLLFAT.....LKGXTMKKMFVLFCEM.....	42
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	MQIKTKIVTLFL.....SLCLPTL.....PLLANAEEETAPAA.....Q.....	33
NTDB id 1150 A1552VC RS08580 WP 001166105.1	MQIKTKIVTLFL.....SLCLPTL.....PLLANAEEETAPAA.....Q.....	33
NTDB id 1395 DSB67 RS04445 WP 010649155.1	MKWML.....TLCLLIL.....APMSWAE.TKTKA.....D.....	25
NTDB id 1294 VP RS04495 WP 021449594.1	MKWIL.....TLCLVVF.....APLSLAA..DTKA.....D.....	24
NTDB id 1362 HI 1008 AAC22669.1	MKTLL.FTSV.....VLCGALV.....VSSSFEEKATXQ.....TAQSVVTTQA.....	38
NTDB id 1382 A4U84 RS07375 WP 062924234.1	MKKLSRYTFS.....LLFG.LF.....SATTFAEEKVTTTS.....TEHTPVVMQQ.....	39
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NTDB id 595 KW2 RS08725 WP 021037687.1	STDSPTGS...SVSNQISTTSGPKVNINKADITELQ.KLTGIGQKKAQDIIDFRMKNGDFKSIEDLGKVS	211
NTDB id 521 SMSK321 RS04960 WP 000443804.1	HTGSGAP.....SSTSCKDKKINLNKASLEELK.QVKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGAKTIEKL	209
NTDB id 493 SM12261 RS04300 WP 000387351.1	QAGPGTA.....SSTSKEKKVNLNKASLEELK.QVKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGAKTIEKL	209
NTDB id 153 SP RS04730 WP 000387344.1	QTGSGTA.....SSTSKEKKVNLNKASLEELK.QVKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGGKTIIEKL	209
NTDB id 263 KZH43 RS04195 WP 000387330.1	QTGLGTA.....SSISKEKKVNLNKASLEELK.QVKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGGKTIIEKL	209
NTDB id 222 SPD RS04535 WP 000387330.1	QTGLGTA.....SSISKEKKVNLNKASLEELK.QVKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGGKTIIEKL	209
NTDB id 188 SPR RS04295 WP 000387330.1	QTGLGTA.....SSISKEKKVNLNKASLEELK.QVKGLGGKRAQDIIDHREANGKFKSVDLKKVSGIGGKTIIEKL	209
NTDB id 1069 ABD1 RS03060 WP 043960841.1	ISKSSHSNSSKISQTKNFNDSTGQIHLNQANVNEFQ.QLKGIGEKKAQAIVEYRQKNGSFKNIDEIKNVKGIGPAIFEKN	130
NTDB id 1041 HON27 RS14740 WP 005124713.1	ITKSSHSNGSKISQTKNFNDSTGQIHLNQANVNEFQ.QLKGVGEKKAQAIVEYRQKNGSFKNIDEIKNVKGIGPAIFEKN	130
NTDB id 36 MW RS08230 WP 001793467.1	QIGVNS..VHVKNGNTNNTKVNLTASVSELM.SVPGVGQAKANAIVEYRNQQAQAFQEIDDLKKVKGFGSKTFDKL	222
NTDB id 20 SA RS08005 WP 001802022.1	QIEVNS..VHVKNGNTNNTKVNLTASVSELM.SVPGVGQAKANAIVEYRNQQAQAFQEIDDLKKVKGFGSKTFDKL	222
NTDB id 105 BSU 25590 NP 390437.1	...QQGGGGS....VQSDGGKGALVNINTATLEELQ.GISGVGPSKAEAITAYREENGRFQTIEDITKVSIGIGEKSFETI	198
NTDB id 1014 ACIAD RS13855 WP 004924483.1	SSASHHSLSK....PTQQSGTGPKVNINSATAKELQ.QLHGVGEKKALAIVEYRQYQKGFASVDDLQKVKGIGPKFIEKN	122
NTDB id 105240 R8665 RS00055 WP 317677003.1	FTLTAFLLFGTVNINTATLKEK.SLNGIGEAKAKAILEYRKE..ANFTSIDDLKKVKGIGDKLFEKI	72
NTDB id 1242 Cj0011c YP 002343483.1	FALTAFLFGAVNINTATLKEK.SLNGIGEAKAKAILEYRKE..ANFTSIDDLKKVKGIGDKLFEKI	72
NTDB id 1127 NGFG RS10560 WP 003703428.1	LFSCAFSLAAVNINAASQQELE.ALPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKGIGPAVLAKL	107
NTDB id 1126 NGFG RS09375 WP 003703428.1	LFSCAFSLAAVNINAASQQELE.ALPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKGIGPAVLAKL	107
NTDB id 1125 NGFG RS07215 WP 003703428.1	LFSCAFSLAAVNINAASQQELE.ALPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKGIGPAVLAKL	107
NTDB id 1108 NGFG RS06525 WP 003703428.1	LFSCAFSLAAVNINAASQQELE.ALPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKGIGPAVLAKL	107
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	VEEGIVITVNINTASAEELATLLKGIGLKKQAIVDYREANGPFTHIDDLTNVKGIGEATVRNN	97
NTDB id 1150 A1552VC RS08580 WP 001166105.1	VEEGIVITVNINTASAEELATLLKGIGLKKQAIVDYREANGPFTHIDDLTNVKGIGEATVRNN	97
NTDB id 1395 DSB67 RS04445 WP 010649155.1	KYEGIEITVNINSATAQEIATLLIGIGEKKAQDIVEYRNEHGPFKTAADLTKVKGIGEATVRKN	89
NTDB id 1294 VP RS04495 WP 021449594.1	KYEGIEITVNINTASAEIATMLKGIGEKKAQSIVDYRTEHGPFKTAADLTNVKGIGEATIKKN	88
NTDB id 1362 HI 1008 AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKSLTGIGAKKAQAIVQYREKHGNFXNAEQLLEVQGIGKATLEKN	106
NTDB id 1382 A4U84 RS07375 WP 062924234.1	VAATQKVNANVNIINTATASEIQDKLVGIGAKKAQAIVEYREKNGKFLNVEQLTEVSGIGKATLEKN	106
consensus	***! !*! !* * !*! ***!***!***! *!***** *!***! *!***! *	

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NTDB id 595 KW2 RS08725 WP 021037687.1	KDEISID.....	218
NTDB id 521 SMSK321 RS04960 WP 000443804.1	KDYVTVD.....	216
NTDB id 493 SM12261 RS04300 WP 000387351.1	KDYVTVD.....	216
NTDB id 153 SP RS04730 WP 000387344.1	KDYVTVD.....	216
NTDB id 263 KZH43 RS04195 WP 000387330.1	KDYVTVD.....	216
NTDB id 222 SPD RS04535 WP 000387330.1	KDYVTVD.....	216
NTDB id 188 SPR RS04295 WP 000387330.1	KDYVTVD.....	216
NTDB id 1069 ABD1 RS03060 WP 043960841.1	KSRLAL.....	136
NTDB id 1041 HON27 RS14740 WP 005124713.1	KSRLAL.....	136
NTDB id 36 MW RS08230 WP 001793467.1	KSYFTI.....	228
NTDB id 20 SA RS08005 WP 001802022.1	KSYFTI.....	228
NTDB id 105 BSU 25590 NP 390437.1	KSSIIVK.....	205
NTDB id 1014 ACIAD RS13855 WP 004924483.1	RDRLAI.....	128
NTDB id 105240 R8665 RS00055 WP 317677003.1	KNDITVE.....	79
NTDB id 1242 Cj0011c YP 002343483.1	KNDITIE.....	79
NTDB id 1127 NGFG RS10560 WP 003703428.1	KDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1126 NGFG RS09375 WP 003703428.1	KDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1125 NGFG RS07215 WP 003703428.1	KDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1108 NGFG RS06525 WP 003703428.1	KDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	AARILL.....	103
NTDB id 1150 A1552VC RS08580 WP 001166105.1	AARILL.....	103
NTDB id 1395 DSB67 RS04445 WP 010649155.1	EDRILL.....	95
NTDB id 1294 VP RS04495 WP 021449594.1	EDRILL.....	94
NTDB id 1362 HI 1008 AAC22669.1	RDRIIF.....	112
NTDB id 1382 A4U84 RS07375 WP 062924234.1	RDCIVIE.....	113
consensus	** ***	

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