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MEALLLEKIKKEYKLLY, ICTGLGLLVGGFFLLKPABSTPKETNLQAE...VVAVSKDLYEKEVSKKEEKPEE

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 1362 HI 1008 AAC22669.1	.....	0
NTDB id 1382 A4U84 RS07375 WP 062924234.1	.....	0
NTDB id 595 KW2 RS08725 WP 021037687.1	..... MEKILDKLKEYWKIM.LLVVICALIAGGIFYIFTNSPKPAETLSVEN...LSSS..STKSSVSKFNSSSSEK	65
NTDB id 521 SMSK321 RS04960 WP 000443804.1	..... MESIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPHTPVKETNLQAE...VVAISKDSSTEKDVKKEEKKEEPV	69
NTDB id 493 SM12261 RS04300 WP 000387351.1	..... MEAIIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAVSKDVSVEKEVKKEEKKEEPL	69
NTDB id 263 KZH43 RS04195 WP 000387330.1	..... MEAIIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAVSKDLVSEKEVNKEEKKEEPL	69
NTDB id 222 SPD RS04535 WP 000387330.1	..... MEAIIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAVSKDLVSEKEVNKEEKKEEPL	69
NTDB id 188 SPR RS04295 WP 000387330.1	..... MEAIIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAVSKDLVSEKEVNKEEKKEEPL	69
NTDB id 153 SP RS04730 WP 000387344.1	..... MEAIIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAVSKDSSTEKEVKKEEKKEEPL	69
NTDB id 1069 ABD1 RS03060 WP 043960841.1	.....	0
NTDB id 1041 HON27 RS14740 WP 005124713.1	.....	0
NTDB id 105 BSU 25590 NP 390437.1	..... MNWLNQHKKAIILAASA AVFTA IMIFLATG...KNKE...PVKQAVPT...ETENTVVKQEANNDE	57
NTDB id 36 MW RS08230 WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLI GFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20 SA RS08005 WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLI GFIFWRQDDYTSRNFENKDTALKQSTSENNSLSKLEDVQVKDGDNSK	80
NTDB id 1014 ACIAD RS13855 WP 004924483.1	.....	0
NTDB id 1158144 QOR51 RS00050 WP 002853093.1	.....	0
NTDB id 1242 Cj0011c YP 002343483.1	.....	0
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
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EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVKAGGLTEQADSKSLNLAQKVSDEALVYVPTKCEEASQQTGLGTA..

NTDB id 1159 ABDM36 RS04765 WP 001166105.1	..... MQIKTK..IVTLFLSLCLPT.....LPLLANAEETAPAAQ.....	33
NTDB id 1150 A1552VC RS08580 WP 001166105.1	..... MQIKTK..IVTLFLSLCLPT.....LPLLANAEETAPAAQ.....	33
NTDB id 1395 DSB67 RS04445 WP 010649155.1	..... MKWMTLCLL.....LAPMSWAE.TKTKAD.....	25
NTDB id 1362 HI 1008 AAC22669.1	..... MKTL...FTSVVLCGAL.....VSSSF AEKATXQTAQSVVTT	36
NTDB id 1382 A4U84 RS07375 WP 062924234.1	..... MKKL...SRYTFSLLFG...L...FSATTF AEKVTTSTHTPVVM	37
NTDB id 595 KW2 RS08725 WP 021037687.1	NKNEIMVDLKGA VAKPNVYQISSDE.RIVDLIRQAGGFTDQADQKSNLSAKIKDEEVIVVPKVCSSSSSESTDSP TG..	142
NTDB id 521 SMSK321 RS04960 WP 000443804.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVKAGGLTEQADSKSLNLAQKVSDEALVYVPTKCEEASQHTGSGAP..	146
NTDB id 493 SM12261 RS04300 WP 000387351.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVKAGGLTEQADSKSLNLAQKVSDEALVYVPTKCEEASQQAGPGTA..	146
NTDB id 263 KZH43 RS04195 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVKAGGLTEQADSKSLNLAQKVSDEALVYVPTKCEEAVSQQTGLGTA..	146
NTDB id 222 SPD RS04535 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVKAGGLTEQADSKSLNLAQKVSDEALVYVPTKCEEAVSQQTGLGTA..	146
NTDB id 188 SPR RS04295 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVKAGGLTEQADSKSLNLAQKVSDEALVYVPTKCEEAVSQQTGLGTA..	146
NTDB id 153 SP RS04730 WP 000387344.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVKAGGLTEQADSKSLNLAQKVSDEALVYVPTKCEEAVSQQTGSGTA..	146
NTDB id 1069 ABD1 RS03060 WP 043960841.1	..... MQYSMRFWKNKYFVLLMCLGV.....ISPSVCAQSFDQNFQEWKVKQMYDQ	48
NTDB id 1041 HON27 RS14740 WP 005124713.1	..... MQYSMRFWKNKYFLLMCLGV.....ISPSVCAQSFDQNFQEWKAKQMYDQ	48
NTDB id 105 BSU 25590 NP 390437.1	SNETIVVDIKGAVQHPGVYEMRTGD.RVSAIEKAGGTSEQADEAQVNLAEIQQDGTVVYIPKKCEETAV.....Q	127
NTDB id 36 MW RS08230 WP 001793467.1	NKGPVYVDVKGAVKHPNVYKMTSKD.RVVDLIDKAQ.LLEDADV SQINLSEKLT DQKMIFIPH.....K.GQKNVEP	149
NTDB id 20 SA RS08005 WP 001802022.1	NKGPVYVDVKGAVKHPNVYKMTSKD.RVVDLIDKAQ.LLDDADVSRINLSEKLT DQKMIFIPH.....K.GQKNVEP	149
NTDB id 1014 ACIAD RS13855 WP 004924483.1	..... MSIR.HFF...T...FFWAT...LL..TLFSMQLVFAAQFDQYDAWKTQQKAHDT	44
NTDB id 1158144 QOR51 RS00050 WP 002853093.1	..... MKKLLFLF...F.....	9
NTDB id 1242 Cj0011c YP 002343483.1	..... MKKLLFLF...F.....	9
NTDB id 1127 NGFG RS10560 WP 003703428.1	..... MSRGGA...TPYRFLLR.HIV...ARCG.LLFAT...LKGKTMKKMFVLF CML.....	43
NTDB id 1126 NGFG RS09375 WP 003703428.1	..... MSRGGA...TPYRFLLR.HIV...ARCG.LLFAT...LKGKTMKKMFVLF CML.....	43
NTDB id 1125 NGFG RS07215 WP 003703428.1	..... MSRGGA...TPYRFLLR.HIV...ARCG.LLFAT...LKGKTMKKMFVLF CML.....	43
NTDB id 1108 NGFG RS06525 WP 003703428.1 MSRGGA...TPYRFLLR.HIV...ARCG.LLFAT...LKGKTMKKMFVLF CML.....	43
consensus	

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NTDB id 1159 ABDM36 RS04765 WP 001166105.1VEEGIVITVNINTASAEELATLLKGGIGLKKAAQAVDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB id 1150 A1552VC RS08580 WP 001166105.1	.....VEEGIVITVNINTASAEELATLLKGGIGLKKAAQAVDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB id 1395 DSB67 RS04445 WP 010649155.1	.....KYEGIEITVMVNSATAQEITATLLIGIGGKKAQDIVEYRNEHGPFKTAADLTQVKGIGEATV	86
NTDB id 1362 HI 1008 AAC22669.1	QAEA.....QVAPAVVSDKLNINTATASEITQKSLTGICAKKAEATVQYREKHCNFXNAEQLLVEVQGICKATL	103
NTDB id 1382 A4U84 RS07375 WP 062924234.1	QQ.V.....AATQKVNANVVNINTATASEITQDKLVGIGAKKAAQAVVEYREKNGKFLNVEQLTEVSGIGKATL	103
NTDB id 595 KW2 RS08725 WP 021037687.1	.....S.....S..VSNQISTTSGPKVNINKADITELQK.LTGIGQKKAQDIDFERMKNCGDFKSLDELKQVSGFGDKTL	208
NTDB id 521 SMSK321 RS04960 WP 000443804.1	.....SSTSCKDKKLNINKASLEELKQ.VKCIGGKRAQDIDHREANGKFKSVDELKQVSGIGAKTI	206
NTDB id 493 SM12261 RS04300 WP 000387351.1	.....SSTSKEKKVNINKASLEELKQ.VKCIGGKRAQDIDHREANGKFKSVDELKQVSGIGAKTI	206
NTDB id 263 KZH43 RS04195 WP 000387330.1	.....SSISKEKKVNINKASLEELKQ.VKCIGGKRAQDIDHREANGKFKSVDELKQVSGIGGKTI	206
NTDB id 222 SPD RS04535 WP 000387330.1	.....SSISKEKKVNINKASLEELKQ.VKCIGGKRAQDIDHREANGKFKSVDELKQVSGIGGKTI	206
NTDB id 188 SPR RS04295 WP 000387330.1	.....SSISKEKKVNINKASLEELKQ.VKCIGGKRAQDIDHREANGKFKSVDELKQVSGIGGKTI	206
NTDB id 153 SP RS04730 WP 000387344.1	.....SSTSKEKKVNINKASLEELKQ.VKCIGGKRAQDIDHREANGKFKSVDELKQVSGIGGKTI	206
NTDB id 1069 ABD1 RS03060 WP 043960841.1	KLNISKSSHSNSSKISQTKNFNDSTGQIHLNQANVNEFQQ.LKGGIGKKAQAVVEYRQKNGSFKNIDELKQVKGIGPAIF	127
NTDB id 1041 HON27 RS14740 WP 005124713.1	KLNITKSSHSNGSKISQTKNFNDSTGQIHLNQANVNEFQQ.LKGGIGKKAQAVVEYRQKNGSFKNIDELKQVKGIGPAIF	127
NTDB id 105 BSU 25590 NP 390437.1	QGGG.....GSV....QSDGGK GALVNINTATLEELQG.TSCVGP SKAEATVAYREENG RFRQTIEDITKQVSGIGEKSF	195
NTDB id 36 MW RS08230 WP 001793467.1	QIGVNSV.....HV....KNGNTNNTKVNINTASVSELSM.VPGVGGAKANAIVEYRNQQGAFQETDDLKQVKGFGSKTF	219
NTDB id 20 SA RS08005 WP 001802022.1	QIEVNSV.....HV....KNGNTNNTKVNINTASVSELSM.VPGVGGAKANAIVEYRNQQGAFQETDDLKQVKGFGSKTF	219
NTDB id 1014 ACIAD RS13855 WP 004924483.1	RLNSSASHHSLSKP...TQQSGTGKVNINSATAKELQQ.LHCVGEEKALAAIVEYRQQYQKFAVDDLIQVKGIGPKFI	119
NTDB id 1158144 QOR51 RS00050 WP 002853093.1	.....ALTAFLFGAVNINTATLKEKLS.LNGICEAKAKATLEYRKE.ANFTSDDLKQVKGIGDKLF	69
NTDB id 1242 Cj0011c YP 002343483.1	.....ALTAFLFGAVNINTATLKEKLS.LNGICEAKAKATLEYRKE.ANFTSDDLKQVKGIGDKLF	69
NTDB id 1127 NGFG RS10560 WP 003703428.1	.....FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKATAEYRAQNGAFKSVDDLKQVKGIGPAVL	104
NTDB id 1126 NGFG RS09375 WP 003703428.1	.....FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKATAEYRAQNGAFKSVDDLKQVKGIGPAVL	104
NTDB id 1125 NGFG RS07215 WP 003703428.1	.....FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKATAEYRAQNGAFKSVDDLKQVKGIGPAVL	104
NTDB id 1108 NGFG RS06525 WP 003703428.1FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKATAEYRAQNGAFKSVDDLKQVKGIGPAVL	104

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NTDB id 1159 ABDM36 RS04765 WP 001166105.1	RNAARILL.....	103
NTDB id 1150 A1552VC RS08580 WP 001166105.1	RNAARILL.....	103
NTDB id 1395 DSB67 RS04445 WP 010649155.1	RKNEDRILL.....	95
NTDB id 1362 HI 1008 AAC22669.1	EKNEDRIIF.....	112
NTDB id 1382 A4U84 RS07375 WP 062924234.1	EKNEDCIVIE.....	113
NTDB id 595 KW2 RS08725 WP 021037687.1	EKLKDEISID.....	218
NTDB id 521 SMSK321 RS04960 WP 000443804.1	EKLKDYVTVD.....	216
NTDB id 493 SM12261 RS04300 WP 000387351.1	EKLKDYVTVD.....	216
NTDB id 263 KZH43 RS04195 WP 000387330.1	EKLKDYVTVD.....	216
NTDB id 222 SPD RS04535 WP 000387330.1	EKLKDYVTVD.....	216
NTDB id 188 SPR RS04295 WP 000387330.1	EKLKDYVTVD.....	216
NTDB id 153 SP RS04730 WP 000387344.1	EKLKDYVTVD.....	216
NTDB id 1069 ABD1 RS03060 WP 043960841.1	EKNKSRIAL.....	136
NTDB id 1041 HON27 RS14740 WP 005124713.1	EKNKSRIAL.....	136
NTDB id 105 BSU 25590 NP 390437.1	EKLKSSITVK.....	205
NTDB id 36 MW RS08230 WP 001793467.1	DKLKSIFTI.....	228
NTDB id 20 SA RS08005 WP 001802022.1	DKLKSIFTI.....	228
NTDB id 1014 ACIAD RS13855 WP 004924483.1	EKNEDRIAT.....	128
NTDB id 1158144 QOR51 RS00050 WP 002853093.1	EKLKNDITIE.....	79
NTDB id 1242 Cj0011c YP 002343483.1	EKLKNDITIE.....	79
NTDB id 1127 NGFG RS10560 WP 003703428.1	AKLKDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1126 NGFG RS09375 WP 003703428.1	AKLKDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1125 NGFG RS07215 WP 003703428.1	AKLKDQASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1108 NGFG RS06525 WP 003703428.1	AKLKDQASVGAPAPKGPAPVLPVAVKK	131

consensus ***** ***

 non conserved
 similar
 $\geq 50\%$ conserved