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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1395	DSB67	RS04445	WP 010649155.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1362	HI 1008	AAC22669.1		MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 1382	A4U84	RS07375	WP 062924234.1	MEALIEKIKKEYKIIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV.....	0
NTDB id 595	KW2	RS08725	WP 021037687.1	MEKILDKLKEYWKIM.LLVVICALIAGGIFYIFTNSPKPAETLSVEN....LSSS..STKSSVSKFNSSSSSEK	65
NTDB id 521	SMSK321	RS04960	WP 000443804.1	MESIIEKIKKEYKIIV.ICTGLGLLVGGFFLLKPAPHTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEALIEKIKKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSVSEKEVNKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEALIEKIKKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEALIEKIKKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEALIEKIKKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEALIEKIKKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKKEEKEEPL	69
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MEALIEKIKKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKKEEKEEPL	69
NTDB id 1041	HON27	RS14740	WP 005124713.1	MEALIEKIKKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVNKKEEKEEPL	69
NTDB id 105	BSU 25590	NP 390437.1		MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPT...ETENTVVKQEANNDE	57
NTDB id 36	MW	RS08230	WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA	RS08005	WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDTALKQSTSENNSLSKLEDVQVKDGDNSK	80
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPT...ETENTVVKQEANNDE	0
NTDB id 194695	MTVDSCj16	RS00050	WP 002853093.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPT...ETENTVVKQEANNDE	0
NTDB id 1242	Cj0011c	YP 002343483.1		MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPT...ETENTVVKQEANNDE	0
NTDB id 1127	NGFG	RS10560	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPT...ETENTVVKQEANNDE	0
NTDB id 1126	NGFG	RS09375	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPT...ETENTVVKQEANNDE	0
NTDB id 1125	NGFG	RS07215	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPT...ETENTVVKQEANNDE	0
NTDB id 1108	NGFG	RS06525	WP 003703428.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPT...ETENTVVKQEANNDE	0
consensus				MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPT...ETENTVVKQEANNDE	0

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDAEALVYVPTKGEAEVSVQQTGLGTA..	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDAEALVYVPTKGEAEVSVQQTGLGTA..	33
NTDB id 1395	DSB67	RS04445	WP 010649155.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDAEALVYVPTKGEAEVSVQQTGLGTA..	25
NTDB id 1362	HI 1008	AAC22669.1		EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDAEALVYVPTKGEAEVSVQQTGLGTA..	36
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDAEALVYVPTKGEAEVSVQQTGLGTA..	37
NTDB id 595	KW2	RS08725	WP 021037687.1	NKNEIMVDLKGAVAKPNVYQISSDE.RLVDLIRQAGGFTDQADQKSINLSAKLKDEEVIVYVPKVGESSSSESTDSPGTG..	142
NTDB id 521	SMSK321	RS04960	WP 000443804.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDAEALVYVPTKGEAEVSVQQTGLGTA..	146
NTDB id 493	SM12261	RS04300	WP 000387351.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDAEALVYVPTKGEAEVSVQQTGLGTA..	146
NTDB id 263	KZH43	RS04195	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDAEALVYVPTKGEAEVSVQQTGLGTA..	146
NTDB id 222	SPD	RS04535	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDAEALVYVPTKGEAEVSVQQTGLGTA..	146
NTDB id 188	SPR	RS04295	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDAEALVYVPTKGEAEVSVQQTGLGTA..	146
NTDB id 153	SP	RS04730	WP 000387344.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDAEALVYVPTKGEAEVSVQQTGLGTA..	146
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MQYSMRFWKNKYFVLLIMCLGV.....ISPSVCAQSFQDNFQEWKVKQMYDQ	48
NTDB id 1041	HON27	RS14740	WP 005124713.1	MQYSMRFWKNKYFVLLIMCLGV.....ISPSVCAQSFQDNFQEWKVKQMYDQ	48
NTDB id 105	BSU 25590	NP 390437.1		SNETIVTDIKGAVQHPGVYEMRTGD.RVSQATEKAGGTSEQADEAQVNLAELIQDGTVVYIPKKGEETAV.....Q	127
NTDB id 36	MW	RS08230	WP 001793467.1	NKGPVYVDVKGAVKHPNVYKMTSKD.RVVDLIDKAQ..LLEDADVSQINLSEKLTQDKMIFIPH.....K.GQKNVEP	149
NTDB id 20	SA	RS08005	WP 001802022.1	NKGPVYVDVKGAVKHPNVYKMTSKD.RVVDLIDKAQ..LLEDADVSQINLSEKLTQDKMIFIPH.....K.GQKNVEP	149
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MSIR.HFF...T...FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQKKAHDT	44
NTDB id 194695	MTVDSCj16	RS00050	WP 002853093.1	MSIR.HFF...T...FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQKKAHDT	9
NTDB id 1242	Cj0011c	YP 002343483.1		MSIR.HFF...T...FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQKKAHDT	9
NTDB id 1127	NGFG	RS10560	WP 003703428.1	MSRGGG...TPYRFLIR.HIV...ARCG..LLFAT....LKGKTMKKMFVLFCLM.....	43
NTDB id 1126	NGFG	RS09375	WP 003703428.1	MSRGGG...TPYRFLIR.HIV...ARCG..LLFAT....LKGKTMKKMFVLFCLM.....	43
NTDB id 1125	NGFG	RS07215	WP 003703428.1	MSRGGG...TPYRFLIR.HIV...ARCG..LLFAT....LKGKTMKKMFVLFCLM.....	43
NTDB id 1108	NGFG	RS06525	WP 003703428.1	MSRGGG...TPYRFLIR.HIV...ARCG..LLFAT....LKGKTMKKMFVLFCLM.....	43
consensus				MSRGGG...TPYRFLIR.HIV...ARCG..LLFAT....LKGKTMKKMFVLFCLM.....	43

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGIGLKKAAIVDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGIGLKKAAIVDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB id 1395	DSB67	RS04445	WP 010649155.1	KYEGIEITVNVNSATAQETATLLIGIGEKKAQDIVYRNEHGPFKTAADLTkVKGIGEATV	86
NTDB id 1362	HI 1008	AAC22669.1		QAEA.....QVAPAVVSDKLNINTATASEIQKSLTGIGAKKAEAIYQYREKHGNFXNAEQLLLEVQGIGKATL	103
NTDB id 1382	A4U84	RS07375	WP 062924234.1	QQ.V.....AATQKVNANVVNINTATASEIQDKLVGIGAKKAAIVEYREKNGKFLNVEQLTEVSGIGKATL	103
NTDB id 595	KW2	RS08725	WP 021037687.1	S.....S..VSNQISTTSGPKVNINKADITELQK.LTGIGQKKAQDIIDFRMKNGDFKSIEDLGKVSFGGDKTL	208
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SSTSCKDKKVNINKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTI	206
NTDB id 493	SM12261	RS04300	WP 000387351.1	SSTSKEKKVNINKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTI	206
NTDB id 263	KZH43	RS04195	WP 000387330.1	SSISKEKKVNINKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB id 222	SPD	RS04535	WP 000387330.1	SSISKEKKVNINKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB id 188	SPR	RS04295	WP 000387330.1	SSISKEKKVNINKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB id 153	SP	RS04730	WP 000387344.1	SSTSKEKKVNINKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB id 1069	ABD1	RS03060	WP 043960841.1	KLNISKSSHSNSSKISQTKNFNDSTGQIHENQANVNEFQQ.LKGIGEKKAAIVEYRQKNGSFKNIDEIKNVKGIGPAIF	127
NTDB id 1041	HON27	RS14740	WP 005124713.1	KLNITKSSHSNGSKISQTKNFNDSTGQIHENQANVNEFQQ.LKGVGEKKAAIVEYRQKNGSFKNIDEIKNVKGIGPAIF	127
NTDB id 105	BSU	25590	NP 390437.1	QGGG.....GSV....QSDGGKGALVNINTATLEELQG.TSGVGPSKAEAIAYREENGRFQTIEDITKVSGIGEKSF	195
NTDB id 36	MW	RS08230	WP 001793467.1	QIGVNSV.....HV....KNGTNTNTKVNINTASVSELMS.VPGVGQAKANAIVEYRNQQGAFQEIDDLKVKVGFSGKTF	219
NTDB id 20	SA	RS08005	WP 001802022.1	QIEVNSV.....HV....KNGTNTNTKVNINTASVSELMS.VPGVGQAKANAIVEYRNQQGAFQEIDDLKVKVGFSGKTF	219
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	RLNSSASHHSLSKP...TQQSGTGKVNINSA TAKELQQ.LHGVGEKKALAIVEYRQQYQKFASVDDLQKVKGIGPKFI	119
NTDB id 194695	MTVDSCj16	RS00050	WP 002853093.1	ALTAFLFGAVNINTATILKELKS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVKGIGDKLF	69
NTDB id 1242	Cj0011c	YP 002343483.1		ALTAFLFGAVNINTATILKELKS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVKGIGDKLF	69
NTDB id 1127	NGFG	RS10560	WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKGIGPAVL	104
NTDB id 1126	NGFG	RS09375	WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKGIGPAVL	104
NTDB id 1125	NGFG	RS07215	WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKGIGPAVL	104
NTDB id 1108	NGFG	RS06525	WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKGIGPAVL	104
consensus				***! !*! !* * !*! **!*!!*!!*!! ** !***** *!***! ***	

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	RNNAARILL.....	103
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	RNNAARILL.....	103
NTDB id 1395	DSB67	RS04445	WP 010649155.1	RKNEDRILL.....	95
NTDB id 1362	HI 1008	AAC22669.1		EKNRDRIIF.....	112
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EKNRDCIVIE.....	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	EKNKSRLLAL.....	136
NTDB id 1041	HON27	RS14740	WP 005124713.1	EKNKSRLLAL.....	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	EKNRDRLAI.....	128
NTDB id 194695	MTVDSCj16	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