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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVSKKEEKEEPL.....	0
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVSKKEEKEEPL.....	0
NTDB id 1395	DSB67	RS04445	WP 010649155.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVSKKEEKEEPL.....	0
NTDB id 1362	HI 1008	AAC22669.1		MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVSKKEEKEEPL.....	0
NTDB id 1382	A4U84	RS07375	WP 062924234.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVSKKEEKEEPL.....	0
NTDB id 595	KW2	RS08725	WP 021037687.1	MEKILDKLKEYWKIM.LLVVICALIAGGIFYIFTNSPKPAETLSVEN....LSSS...STKSSVSKFNSSSSEK	65
NTDB id 521	SMSK321	RS04960	WP 000443804.1	MESIIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPHTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSVSEKEVSKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVSKKEEKEEPL	69
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVSKKEEKEEPL	0
NTDB id 1041	HON27	RS14740	WP 005124713.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVSKKEEKEEPL	0
NTDB id 105	BSU 25590	NP 390437.1		MNWLNQHKKAIILAASAAVFTAIMIFLATG....KNKE....PVKQAVPT...ETENTVVKQEANNDE	57
NTDB id 36	MW	RS08230	WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLIIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA	RS08005	WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLIIGFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	80
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVSKKEEKEEPL	0
NTDB id 136088	PJ16	RS00055	WP 002853093.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVSKKEEKEEPL	0
NTDB id 1242	Cj0011c	YP 002343483.1		MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVSKKEEKEEPL	0
NTDB id 1127	NGFG	RS10560	WP 003703428.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVSKKEEKEEPL	0
NTDB id 1126	NGFG	RS09375	WP 003703428.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVSKKEEKEEPL	0
NTDB id 1125	NGFG	RS07215	WP 003703428.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVSKKEEKEEPL	0
NTDB id 1108	NGFG	RS06525	WP 003703428.1	MEALIEKIKKEYKLIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVSKKEEKEEPL	0
consensus				MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVSKKEEKEEPL.....	0

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	33
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	33
NTDB id 1395	DSB67	RS04445	WP 010649155.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	25
NTDB id 1362	HI 1008	AAC22669.1		EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	36
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	37
NTDB id 595	KW2	RS08725	WP 021037687.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	142
NTDB id 521	SMSK321	RS04960	WP 000443804.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 493	SM12261	RS04300	WP 000387351.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 263	KZH43	RS04195	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 222	SPD	RS04535	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 188	SPR	RS04295	WP 000387330.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 153	SP	RS04730	WP 000387344.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	146
NTDB id 1069	ABD1	RS03060	WP 043960841.1	MQYSMRFWKNKYFVLLIMLCLGV.....ISPSVCAQSFQDNFQEWKVKQMQMYDQ	48
NTDB id 1041	HON27	RS14740	WP 005124713.1	MQYSMRFWKNKYFVLLIMLCLGV.....ISPSVCAQSFQDNFQEWKVKQMQMYDQ	48
NTDB id 105	BSU 25590	NP 390437.1		MQYSMRFWKNKYFVLLIMLCLGV.....ISPSVCAQSFQDNFQEWKVKQMQMYDQ	127
NTDB id 36	MW	RS08230	WP 001793467.1	NKGPVYVDVKGAVKHPNVYKMTSKD.RVVDLLDKAQ..LLEDADVSQINLSEKLTQKMFIPH.....K.GQKNVEP	149
NTDB id 20	SA	RS08005	WP 001802022.1	NKGPVYVDVKGAVKHPNVYKMTSKD.RVVDLLDKAQ..LLEDADVSQINLSEKLTQKMFIPH.....K.GQKNVEP	149
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQQKAHDT	44
NTDB id 136088	PJ16	RS00055	WP 002853093.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQQKAHDT	9
NTDB id 1242	Cj0011c	YP 002343483.1		MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQQKAHDT	9
NTDB id 1127	NGFG	RS10560	WP 003703428.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQQKAHDT	43
NTDB id 1126	NGFG	RS09375	WP 003703428.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQQKAHDT	43
NTDB id 1125	NGFG	RS07215	WP 003703428.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQQKAHDT	43
NTDB id 1108	NGFG	RS06525	WP 003703428.1	MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQQKAHDT	43
consensus				MSIR.HFF...T....FFWAT....LL..TLFSMQIVFAQGFQDQYDAWKTQQKAHDT	43

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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGGIGLKKAAI	VDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGGIGLKKAAI	VDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB id 1395	DSB67	RS04445	WP 010649155.1	KYEGIEITVNNSATAQEIATLLIGIGEKKAAQD	IVEYRNEHGPFKTAADLT	86
NTDB id 1362	HI 1008	AAC22669.1		QAEA.....QVAPAVVSDKLNINTATASEIQKSLTGIGAKKA	EAI	103
NTDB id 1382	A4U84	RS07375	WP 062924234.1	QQ.V.....AATQKVNANV	VNINTATASEIQDKLVGIGAKKAQAI	103
NTDB id 595	KW2	RS08725	WP 021037687.1	S.....S..VSNQISTTSGPKVNINKAD	LTTELQK.LTGIGQKKAQDI	208
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SSTSCKDKK	INLNKASLEELKQ.VKGLGGKRAQDI	206
NTDB id 493	SM12261	RS04300	WP 000387351.1	SSTSKEKK	VNLNKA	206
NTDB id 263	KZH43	RS04195	WP 000387330.1	SSISKEKK	VNLNKA	206
NTDB id 222	SPD	RS04535	WP 000387330.1	SSISKEKK	VNLNKA	206
NTDB id 188	SPR	RS04295	WP 000387330.1	SSISKEKK	VNLNKA	206
NTDB id 153	SP	RS04730	WP 000387344.1	SSTSKEKK	VNLNKA	206
NTDB id 1069	ABD1	RS03060	WP 043960841.1	KLNISKSSHSNSSKISQTKNFNDSTGQ	IHLNQANVNEFQQ.LKGIGEKKAAI	127
NTDB id 1041	HON27	RS14740	WP 005124713.1	KLNITKSSHSNGSKISQTKNFNDSTGQ	IHLNQANVNEFQQ.LKGVGEKKAAI	127
NTDB id 105	BSU 25590	NP 390437.1		QGGG.....GSV....QSDGGKGALVNINTATLEELQG	.ISGVGPSKAEAI	195
NTDB id 36	MW	RS08230	WP 001793467.1	QIGVNSV.....HV....KNGTNTNTK	VNLNTASVSELMS.VPGVGQAKANA	219
NTDB id 20	SA	RS08005	WP 001802022.1	QIEVNSV.....HV....KNGTNTNTK	VNLNTASVSELMS.VPGVGQAKANA	219
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	RLNSSASHHSLSKP....TQSGTGKVNINSATAKELQQ	.LHGVGEKKALAI	119
NTDB id 136088	PJ16	RS00055	WP 002853093.1	ALTAFLFGAVNINTATILKELKS	.LNGIGEAKAKAILEYRKE	69
NTDB id 1242	Cj0011c	YP 002343483.1		ALTAFLFGAVNINTATILKELKS	.LNGIGEAKAKAILEYRKE	69
NTDB id 1127	NGFG	RS10560	WP 003703428.1	FSCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSV	104
NTDB id 1126	NGFG	RS09375	WP 003703428.1	FSCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSV	104
NTDB id 1125	NGFG	RS07215	WP 003703428.1	FSCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSV	104
NTDB id 1108	NGFG	RS06525	WP 003703428.1	FSCAFSLAAVNINAASQQELEA	.LPGIGPAKAKAIAEYRAQNGAFKSV	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		EKNRDRILF	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	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	EKNRDRILAI	128
NTDB id 136088	PJ16	RS00055	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