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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVSKKEEKEEPL.....	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.LLVVCALIAGGIFYIFTNSPKPAETLSVEN....LSSS...STKSSVSKFNSSSSEK	65
NTDB id 521	SMSK321	RS04960	WP 000443804.1	MESIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPHTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAVSKDSVSEKEVVKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKKEEKEEPL	69
NTDB id 153	SP	RS04730	WP 000387344.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDSSTEKEVKKEEKEEPL	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		MNWLNQHKKAIIAASAAVFTAIMIFLATG....KNKE....PVKQAVPT...ETENTVVKQEANNDE	57
NTDB id 36	MW	RS08230	WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLI GFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA	RS08005	WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLI GFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	80
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	.....	0
NTDB id 170539	AXW77	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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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	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	48
NTDB id 1041	HON27	RS14740	WP 005124713.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	48
NTDB id 105	BSU 25590	NP 390437.1		EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	127
NTDB id 36	MW	RS08230	WP 001793467.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	149
NTDB id 20	SA	RS08005	WP 001802022.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	149
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	44
NTDB id 170539	AXW77	RS00050	WP 002853093.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	9
NTDB id 1242	Cj0011c	YP 002343483.1		EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	9
NTDB id 1127	NGFG	RS10560	WP 003703428.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	43
NTDB id 1126	NGFG	RS09375	WP 003703428.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	43
NTDB id 1125	NGFG	RS07215	WP 003703428.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	43
NTDB id 1108	NGFG	RS06525	WP 003703428.1	EQDLITVDVKGAVKSPGIYDLSPVGS.RVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHTGSGAP..	43
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NTDB	id	1159	ABDM36	RS04765	WP	001166105.1	VEEGIVITVNINTASAEELATLTKGIGLKKAQAIVDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB	id	1150	A1552VC	RS08580	WP	001166105.1	VEEGIVITVNINTASAEELATLTKGIGLKKAQAIVDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB	id	1395	DSB67	RS04445	WP	010649155.1	KYEIEITVNVNSATAQETATLLIGIGEKKAQDIVEYRNEHGFKTAAADLTKVKGIGEATV	86
NTDB	id	1362	HI	1008	AAC22669.1		QAEA.....QVAPAVNSDKLNINTATASEIQKSLTGIGAKKAFAIVQYREKHGNFXNAEQQLLEVQGIGKATL	103
NTDB	id	1382	A4U84	RS07375	WP	062924234.1	QQ.V.....AATQKVNANVVNINTATASEIQDKLVGIGAKKAFAIYEYREKNKGFNLVQEQLTEVSGIGKATL	103
NTDB	id	595	KW2	RS08725	WP	021037687.1	S.....S..VSNQISTTSGPKVNINKADLTTELQK.LTGIGQKKAQDIIDFRMKNNGDFKSIEDLGKVS GF G D K T L	208
NTDB	id	521	SMSK321	RS04960	WP	000443804.1	SSTSCKDKKINLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDDELKKVSGIGAKTI	206
NTDB	id	493	SM12261	RS04300	WP	000387351.1	SSTSKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDDELKKVSGIGAKTI	206
NTDB	id	263	KZH43	RS04195	WP	000387330.1	SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDDELKKVSGIGGKTI	206
NTDB	id	222	SPD	RS04535	WP	000387330.1	SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDDELKKVSGIGGKTI	206
NTDB	id	188	SPR	RS04295	WP	000387330.1	SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDDELKKVSGIGGKTI	206
NTDB	id	153	SP	RS04730	WP	000387344.1	SSTSKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDDELKKVSGIGGKTI	206
NTDB	id	1069	ABD1	RS03060	WP	043960841.1	KLNISSSHSNSSKISQTKNFNDSTGQIHLNQANVNEFFQQ.LKGIGEKKAQAIVEYRKNGSFKNIDEIKNVKGIGPAIF	127
NTDB	id	1041	HON27	RS14740	WP	005124713.1	KLNISSSHSNSSKISQTKNFNDSTGQIHLNQANVNEFFQQ.LKGVGEEKKAQAIVEYRKNGSFKNIDEIKNVKGIGPAIF	127
NTDB	id	105	BSU	25590	NP	390437.1	QGGG.....GSV...QSDGGKGAALVNINTATLEEELQG.ISGVGPSKAEAIAYREENGFRFTIEDITKVSGIGEKSF	195
NTDB	id	36	MW	RS08230	WP	001793467.1	QIGVNSV.....HV....KNGNTNNTKVNINTASVSELMS.VPGVGQAKANAIVEYRNQQGAFQEIDDLKVKVGFGSKTF	219
NTDB	id	20	SA	RS08005	WP	001802022.1	QIEVNSV.....HV....KNGNTNNTKVNINTASVSELMS.VPGVGQAKANAIVEYRNQQGAFQEIDDLKVKVGFGSKTF	219
NTDB	id	1014	ACIAD	RS13855	WP	004924483.1	RLNSSASHHSLSKP...TQQSGTGKVNINSATAKELQQ.LHGVGEEKKALAIVEYRQQYGKFASVDDLQKVKGIGPKFI	119
NTDB	id	170539	AXW77	RS00050	WP	002853093.1	ALTAFLFGAVNINTATLLKELKS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVKVGIGDKLF	69
NTDB	id	1242	Cj0011c	YP	002343483.1		ALTAFLFGAVNINTATLLKELKS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVKVGIGDKLF	69
NTDB	id	1127	NGFG	RS10560	WP	003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVL	104
NTDB	id	1126	NGFG	RS09375	WP	003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVL	104
NTDB	id	1125	NGFG	RS07215	WP	003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVL	104
NTDB	id	1108	NGFG	RS06525	WP	003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVL	104
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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	EKNKSRLAL.....	136
NTDB	id	1041	HON27 RS14740 WP 005124713.1	EKNKSRLAL.....	136
NTDB	id	105	BSU 25590 NP 390437.1	EKI KSSITVK.....	205
NTDB	id	36	MW RS08230 WP 001793467.1	DKLKS YFTI.....	228
NTDB	id	20	SA RS08005 WP 001802022.1	DKLKS YFTI.....	228
NTDB	id	1014	ACIAD RS13855 WP 004924483.1	EKNRDRLAI.....	128
NTDB	id	170539	AXW77 RS00050 WP 002853093.1	EKI KNDITIE.....	79
NTDB	id	1242	Cj0011c YP 002343483.1	EKI KNDITIE.....	79
NTDB	id	1127	NGFG RS10560 WP 003703428.1	AKLKDAQSVGAPAPKGPAPVLPVAVKK	131
NTDB	id	1126	NGFG RS09375 WP 003703428.1	AKLKDAQSVGAPAPKGPAPVLPVAVKK	131
NTDB	id	1125	NGFG RS07215 WP 003703428.1	AKLKDAQSVGAPAPKGPAPVLPVAVKK	131
NTDB	id	1108	NGFG RS06525 WP 003703428.1	AKLKDAQSVGAPAPKGPAPVLPVAVKK	131
consensus				***** **	

 non conserved
 similar
 $\geq 50\%$ conserved