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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	MEALIEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLSVEKEVKKEEKEEPL.....	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...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261	RS04300	WP 000387351.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSVSEKEVKKEEKEEPL	69
NTDB id 263	KZH43	RS04195	WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKEEPL	69
NTDB id 222	SPD	RS04535	WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKEEPL	69
NTDB id 188	SPR	RS04295	WP 000387330.1	MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKEEPL	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		MNWLNQHKKAIILAASAAVFTAIMIFLATG....KNKE....PVKQAVPT...ETENTVVKQEANNDE	57
NTDB id 36	MW	RS08230	WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLI GFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA	RS08005	WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLI GFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	80
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	.....	0
NTDB id 104428	R8633	RS00055	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 104428	R8633	RS00055	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	VEEGIVITVNINTASAEELATLTKGIGLKKAAQIVDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB	id	1150	A1552VC	RS08580	WP	001166105.1	VEEGIVITVNINTASAEELATLTKGIGLKKAAQIVDYREANGPFTHIDDLTNVKGIGEATV	94
NTDB	id	1395	DSB67	RS04445	WP	010649155.1	KYEIEITVNVNSATAQETATLLIGIGEKKAQDIVEYRNEHGFKTAADLTVKVGIGEATV	86
NTDB	id	1362	HI	1008	AAC22669.1		QAEA.....QVAPAVNSDKLNINTATASEIQKSLTGIGAKKAQIAIVQYREKHGNFXNAEQLLLEVQGIGKATL	103
NTDB	id	1382	A4U84	RS07375	WP	062924234.1	QQ.V.....AATQKVNANVNVNINTATASEIQDKLVGIGAKKAQIAIYEYREKNGKFLNVEQLTEVSGIGKATL	103
NTDB	id	595	KW2	RS08725	WP	021037687.1	S.....S..VSNQISTTSGPKVNINKADLTTELQK.LTGIGQKKAQDIIDFRMKNNGDFKSIEDLGKVSGFCDKTL	208
NTDB	id	521	SMSK321	RS04960	WP	000443804.1	SSTSCKDKKINLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTI	206
NTDB	id	493	SM12261	RS04300	WP	000387351.1	SSTSKEKKVNLNKNASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTI	206
NTDB	id	263	KZH43	RS04195	WP	000387330.1	SSISKEKKVNLNKNASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB	id	222	SPD	RS04535	WP	000387330.1	SSISKEKKVNLNKNASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB	id	188	SPR	RS04295	WP	000387330.1	SSISKEKKVNLNKNASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB	id	153	SP	RS04730	WP	000387344.1	SSTSKEKKVNLNKNASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI	206
NTDB	id	1069	ABD1	RS03060	WP	043960841.1	KLNISKSSHSNSSKISQTKNFNDSTGQIHLNQANVNEFQQ.LKGIGEKKAQIAIYERKNGSFKNIDEIKNVKGIGPAIF	127
NTDB	id	1041	HON27	RS14740	WP	005124713.1	KLNITKSSHSNNGSKISQTKNFNDSTGQIHLNQANVNEFQQ.LKGVGEKKAQIAIYERKNGSFKNIDEIKNVKGIGPAIF	127
NTDB	id	105	BSU	25590	NP	390437.1	QGGG.....GSV...QSDGGKGAALVNINTATLEELQG.ISGVGPSKAEAIAYREENGFRQTIETIDTKVSGIGEKSF	195
NTDB	id	36	MW	RS08230	WP	001793467.1	QIGVNSV.....HV...KNGNTNNTKVNINTASVSELMS.VPGVGQAKANAIAVEYRNQQGAFQEIDDLKVKVGFGSKTF	219
NTDB	id	20	SA	RS08005	WP	001802022.1	QIEVNSV.....HV...KNGNTNNTKVNINTASVSELMS.VPGVGQAKANAIAVEYRNQQGAFQEIDDLKVKVGFGSKTF	219
NTDB	id	1014	ACIAD	RS13855	WP	004924483.1	RLNSSASHHSLSKP...TQQSGTGKVNINSATAKELQQ.LHGVGEKKALAIYERQYQYGFASVDDLQVKVGIGPKFI	119
NTDB	id	104428	R8633	RS00055	WP	002853093.1	ALTAFLFGAVNINTATLTKELKS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVKVGIGDKLF	69
NTDB	id	1242	Cj0011c	YP	002343483.1		ALTAFLFGAVNINTATLTKELKS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVKVGIGDKLF	69
NTDB	id	1127	NGFG	RS10560	WP	003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKVGIGPAVL	104
NTDB	id	1126	NGFG	RS09375	WP	003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKVGIGPAVL	104
NTDB	id	1125	NGFG	RS07215	WP	003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKVGIGPAVL	104
NTDB	id	1108	NGFG	RS06525	WP	003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLKVKVGIGPAVL	104
consensus							*****! !*! !* * !*! ****! !*! !* !* !* !* !* !* !* !* !* !* !* !* !* !*	

NTDB	id	Accession	Protein	Sequence	Score
NTDB	id 1159	ABDM36	RS04765	WP 001166105.1	103
NTDB	id 1150	A1552VC	RS08580	WP 001166105.1	103
NTDB	id 1395	DSB67	RS04445	WP 010649155.1	95
NTDB	id 1362	HI 1008	AAC22669.1		112
NTDB	id 1382	A4U84	RS07375	WP 062924234.1	113
NTDB	id 595	KW2	RS08725	WP 021037687.1	218
NTDB	id 521	SMSK321	RS04960	WP 000443804.1	216
NTDB	id 493	SM12261	RS04300	WP 000387351.1	216
NTDB	id 263	KZH43	RS04195	WP 000387330.1	216
NTDB	id 222	SPD	RS04535	WP 000387330.1	216
NTDB	id 188	SPR	RS04295	WP 000387330.1	216
NTDB	id 153	SP	RS04730	WP 000387344.1	216
NTDB	id 1069	ABD1	RS03060	WP 043960841.1	136
NTDB	id 1041	HON27	RS14740	WP 005124713.1	136
NTDB	id 105	BSU	25590	NP 390437.1	205
NTDB	id 36	MW	RS08230	WP 001793467.1	228
NTDB	id 20	SA	RS08005	WP 001802022.1	228
NTDB	id 1014	ACIAD	RS13855	WP 004924483.1	128
NTDB	id 104428	R8633	RS00055	WP 002853093.1	79
NTDB	id 1242	Cj0011c	YP 002343483.1		79
NTDB	id 1127	NGFG	RS10560	WP 003703428.1	131
NTDB	id 1126	NGFG	RS09375	WP 003703428.1	131
NTDB	id 1125	NGFG	RS07215	WP 003703428.1	131
NTDB	id 1108	NGFG	RS06525	WP 003703428.1	131
consensus					

 non conserved
 similar
 $\geq 50\%$ conserved