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				MSXLSICDRRLGALLLDXGYLDNLSLQRALERHSEVGGRLAeVLYDsgYyEeRRIAsxIEeRFGIPLVnLHrVemSPxxk	
NTDB id 1306	DR	RS10060	WP 027479822.1	.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLDIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL	79
NTDB id 1028	TT	RS08215	WP 011173991.1	MSVLTIGDKRLGAAALLDAGLLTDEELQRALERHREVEGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
NTDB id 1384	A4U84	RS08525	WP 010787006.1	.....	0
NTDB id 1355	HI	0298	AAC21962.1	.....	0
NTDB id 1122731	EL190	RS04520	WP 006996185.1	.....	0
NTDB id 1366	NTHI	RS01950	WP 011271972.1	.....	0
NTDB id 1168	A1552VC	RS11070	WP 000957200.1	.....	0
NTDB id 1401	DSB67	RS12665	WP 010643259.1	.....	0
NTDB id 1293	VP	RS12240	WP 005479695.1	.....	0
NTDB id 1110	NGFG	RS09235	WP 003689817.1	.....	0
NTDB id 1251	GCO85	RS07725	WP 011946523.1	.....	0
NTDB id 1018	ACIAD	RS01685	WP 004920473.1	.....	0
NTDB id 1058	ABD1	RS01615	WP 001274986.1	.....	0
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				RSIRPQTALNLQAFPPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA	
NTDB id 1306	DR	RS10060	WP 027479822.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P	157
NTDB id 1028	TT	RS08215	WP 011173991.1	.....	158
NTDB id 1384	A4U84	RS08525	WP 010787006.1	.....	0
NTDB id 1355	HI	0298	AAC21962.1	.....	0
NTDB id 1122731	EL190	RS04520	WP 006996185.1	.....	0
NTDB id 1366	NTHI	RS01950	WP 011271972.1	.....	0
NTDB id 1168	A1552VC	RS11070	WP 000957200.1	.....	0
NTDB id 1401	DSB67	RS12665	WP 010643259.1	.....	0
NTDB id 1293	VP	RS12240	WP 005479695.1	.....	0
NTDB id 1110	NGFG	RS09235	WP 003689817.1	.....	0
NTDB id 1251	GCO85	RS07725	WP 011946523.1	.....	0
NTDB id 1018	ACIAD	RS01685	WP 004920473.1	.....	0
NTDB id 1058	ABD1	RS01615	WP 001274986.1	.....	0
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				SDAGRTGGKLGGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL	
NTDB id 1306	DR	RS10060	WP 027479822.1	SGEGQKDKLKGELLQKQGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSSAA	237
NTDB id 1028	TT	RS08215	WP 011173991.1	.....	237
NTDB id 1384	A4U84	RS08525	WP 010787006.1	.....	0
NTDB id 1355	HI	0298	AAC21962.1	.....	0
NTDB id 1122731	EL190	RS04520	WP 006996185.1	.....	0
NTDB id 1366	NTHI	RS01950	WP 011271972.1	.....	0
NTDB id 1168	A1552VC	RS11070	WP 000957200.1	.....	0
NTDB id 1401	DSB67	RS12665	WP 010643259.1	.....	0
NTDB id 1293	VP	RS12240	WP 005479695.1	.....	0
NTDB id 1110	NGFG	RS09235	WP 003689817.1	.....	0
NTDB id 1251	GCO85	RS07725	WP 011946523.1	.....	0
NTDB id 1018	ACIAD	RS01685	WP 004920473.1	.....	0
NTDB id 1058	ABD1	RS01615	WP 001274986.1	.....	0
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NTDB id 1306 DR RS10060 WP 027479822.1	GSMLRADALRLLAVPVDETEGGVTVLTSDPRKRPDIDALIGRPVQMLTRPRDIERLIEQFYPQGRGLGEQLVQEGTLSR	317
NTDB id 1028 TT RS08215 WP 011173991.1	LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYLALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 1122731 EL190 RS04520 WP 006996185.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
consensus	.....	0

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NTDB id 1306 DR RS10060 WP 027479822.1	DQLREALQVQAREGKVKPLGEVTELGFASPDEVDSALQKQNVGGGRLEDTLVQSCKISPEMARSAAQLGYEFLDPIQ	397
NTDB id 1028 TT RS08215 WP 011173991.1	EALKEALEVQKGLPRAKPLGEIVELGLARPEDVEEALQKQRRGGGRLEDTLVQSCKIRPEALAAQAVATQLGYPVVDPEE	397
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	16
NTDB id 1355 HI 0298 AAC21962.1	.....	21
NTDB id 1122731 EL190 RS04520 WP 006996185.1	.....	21
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	21
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....MLTNLVAILRQAEELISATQEAVVTQVSASGTSVPEADLELSIFHAQELTEQVSHIFGLPETDLRSLR	66
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....MLTNLSTVLRQAGILTFSSQEESSLEQVKASGISMPEALLSSGFFQSHETHEHSSVFGLSCTSLNQ	66
NTDB id 1293 VP RS12240 WP 005479695.1	.....MHSNLSTILRQKGLLTFSSQEESSLEQVKASGISMPEALLSSGFFTSSELAEHSSVFGLSQPQLSQ	66
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....MSVGLLRILVQNQVVTVQAEHYYNESQAGKEVLPMLFSDGVISPKSLAALARVFSYSILDLRH	65
NTDB id 1251 GCO85 RS07725 WP 011946523.1	.....MALATEEYRLQGIGQLVLEKLLDKTKAIELHKLAAAEEKISLLQYLVKNKILSAEQIALTAAQNFQVPMLDINC	74
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDTPVYLDNFSISPLTIAEISLEFGEPLLDLGV	74
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....MSALHTSPKFTGFFRRILVEEKHVSAATMQTALDAAKRAKQDTPVAYLIEEVHISPSLLAETISAEFAEYFVLDLV	74
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NTDB id 1306 DR RS10060 WP 027479822.1	NPPDPKVALIPEATARRVYVVPVRLQGNSLVVAMKDFRNVFALDDKLLITG....KEILPAVMAEKDITRLIERFYFGE	472
NTDB id 1028 TT RS08215 WP 011173991.1	DPPDPGAPLILPEDTCRRYGVFPHRLEGNRLVLLMKDPRNLLALDDVRLALKRKGLNVEVAPAVATEAAITKLIERFYGK	477
NTDB id 1384 A4U84 RS08525 WP 010787006.1	ISPSRWQKNCEEKQLLLRYLAVPVQETEHKLLAVDDENMLTACEIFAFMTH....KQTEPVVIVASDEIKYLDNAISPE	91
NTDB id 1355 HI 0298 AAC21962.1	ISPDLWERNQQQSSLLRLRYFALPLKEENRLLWLVDSLSNLSACETIAFITG....KPVEPILLESSQLKELLQQLTPN	96
NTDB id 1122731 EL190 RS04520 WP 006996185.1	ISPDLWVRNQQQSSLLRLRYFALPLKEENRLLWLVDSLSNLSACETIAFITG....KPVEPILLESSQLKELLQQLTPR	96
NTDB id 1366 NTHI RS01950 WP 011271972.1	ISPDLWERNQQQSSLLRLRYFALPLKEENRLLWLVDSLSNLSACETIAFITG....KPVEPILLESSQLKELLQQLTPH	96
NTDB id 1168 A1552VC RS11070 WP 000957200.1	YDYANLCQQTLGLRELITRYDALPIAKQGNLLAVSDPTLLQAEFEFRFATG....LQVELLADHRAALQAAIRRLYGR	141
NTDB id 1401 DSB67 RS12665 WP 010643259.1	YEYASLCQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEEDFRFATG....LQVELVLADFRELTAARRLYGR	141
NTDB id 1293 VP RS12240 WP 005479695.1	YEYASLCQQTLGLRELITRHNALPLHRTPSTLLAVADPTNLQAEEDFRFATG....LQVELVLADFRELSTARRLYGR	141
NTDB id 1110 NGFG RS09235 WP 003689817.1	YPRHRVLMGVLTEEQMVVHCVPVFRRGDKVFAVSDPTQMPQIQKTVSAAG....IAVELVIVEDDQLAGLDWVGSR	140
NTDB id 1251 GCO85 RS07725 WP 011946523.1	IDVGTIPVNLVNEKLIKRRHAMVPLFSRGTNLYLATDPSKQASLKEIQFHTG....LNTHAIVVETDKLSALIDNLT	149
NTDB id 1018 ACIAD RS01685 WP 004920473.1	FDPALFLKDKIDEKLIQKVRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSK....LKVEPIVEHDKLERLSEHFVE	149
NTDB id 1058 ABD1 RS01615 WP 001274986.1	YDTSQIPKDLVDQKLLKRRILPLIQRGQILYVATSNPSNIEATDAIRFNSK....LLVEPVIVEHKKLEKVLGQHFAE	149
consensus	.....	





 non conserved  
 similar  
  $\geq 50\%$  conserved