

logo

		MSXLRIGDRRLGAALLDAGYLDNQLQRALERHAEVGGRLAEVLYDSGYZERRIASXIEBFGIPLVNLHAEVETBPKK	
NTDB id 1410	SGL RS13950 WP 010873519.1	.....	0
NTDB id 1028	TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV	80
NTDB id 1306	DR RS10060 WP 027479822.1	.....	0
NTDB id 1168	A1552VC RS11070 WP 000957200.1	.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL	79
NTDB id 1293	VP RS12240 WP 005479695.1	.....	0
NTDB id 1401	DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1110	NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251	GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 175993	PA11803 RS27330 WP 003120945.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	0
NTDB id 1018	ACIAD RS01685 WP 004920473.1	0
consensus		0

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		RSLPAEKALNLRALPFALDEEAGVVRVAFNLPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P	
NTDB id 1410	SGL RS13950 WP 010873519.1	.....	0
NTDB id 1028	TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P	158
NTDB id 1306	DR RS10060 WP 027479822.1	RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLIEIVVPSGA	157
NTDB id 1168	A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1293	VP RS12240 WP 005479695.1	.....	0
NTDB id 1401	DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1110	NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251	GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 175993	PA11803 RS27330 WP 003120945.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	0
NTDB id 1018	ACIAD RS01685 WP 004920473.1	0
consensus		0

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		SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGFLESTEGIVPDPSAA	
NTDB id 1410	SGL RS13950 WP 010873519.1	.....	0
NTDB id 1028	TT RS08215 WP 011173991.1	SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGFLESTEGIVPDPSAA	237
NTDB id 1306	DR RS10060 WP 027479822.1	SDAGRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL	237
NTDB id 1168	A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1293	VP RS12240 WP 005479695.1	.....	0
NTDB id 1401	DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1110	NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251	GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 175993	PA11803 RS27330 WP 003120945.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	0
NTDB id 1018	ACIAD RS01685 WP 004920473.1	0
consensus		0

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 NTDB id 175993 PA11803 RS27330 WP 003120945.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1

.....MTS
 LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALALPQAWHEELFRAYPQKNRLGEVLVQEGKLSR
 GSMLRADALRLLAVPVDETEQGVTVLTS DPRKRKPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLGEQLVQEGTLRSR

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consensus

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NTDB id 1410 SGL RS13950 WP 010873519.1
 NTDB id 1028 TT RS08215 WP 011173991.1
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SSSSKKSRAVALRNYFSPFGNKLIVAGCHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPELLRQYKKNQLFELKVLVY
 EALKEALEVQKGLPRAKPLGETLVELGLARPEDVEEALQKQRGGRIEDTLV..QSGKIRPEALQA.....VATQL
 DQLREALQVQAREGKVKPLGGEVITELGFASPDVEVDSALQKQNVGGRIEDTLV..QSGKLSPEMLARS.....LAAQL
MLTNLVAIILRQAEILSATQEAVVTQVSASGTSVPEALL..ELSFHAQELTEQ.....LSHIF
MHSNLSTILRQKGLLTFQSSESLIEQVKASGISMPEALL..SSGFFTSSELAEH.....LSSIF
MLTNLSTVLRQAGILTFQSSESLIEQVKASGISMPEALL..SSGFFQSHELTEH.....LSSVF
MSVGLLRILVQNQVVTVEQAESHYINES.QAGKEVLPMLF..SDGVIISPKSLAAL.....IARVF
MALATEEYRLQGITQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIV..KNKILSAEQIALT.....AAQNF
MNDSIQLSGLSRQLVQANLLDEKTAVQAQAQAQRNKLVLVTHLV..QNKLVSGLLAEL.....SAEQF
MSALHTSPKFTGFFRRLVVEEKHVSAAATMQTALDAAKRAKQDVTVAYLII..EEVHLSPSLLAET.....TSAEF
MSAFTTPPKFSGFIRRLVVEEGYVNAQNMQQALEKAKKFKQDTPVYLI..DNFISPLTIAEI.....ISLEF

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 NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1306 DR RS10060 WP 027479822.1
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 NTDB id 175993 PA11803 RS27330 WP 003120945.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1

GVDSDPEVAPIATQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRIILRVKGF..ELRRL
 GYPYVDPEEDPPD....PGAPLLLPEDLCRRYGVFPHRLEG...NRLVLLMKDPRNIALDDVRLALKRKLNYEVAPA
 GYFELDPIQNPPD....PKVALMIPAEATARRVVPVRLQG...NSLVVAMKDPNRNVFALDDLKLITG.....KETLPA
 GLPETDLRSYDYA....NLCCQLGLRELITRYDALPIAKQ...NLLLAVSDPTLLQAEFFRFATG.....LQVELA
 GLSQPELSQYEYA....SLCQLGLRELITRHNAIPLHRT...STLLAVADPTNQQAEDDFRFATG.....LQVELV
 GLSCTSLNQYEYA....SLCQLGLRDLITRHNAIPLNRTS...STLILAVADPTNIQAEDDFRFATG.....LQVELV
 SYSILDLRHYPRH....RVLMGVLTQQMVEFHCVPVFRFG...DKVFFAVSDPTQMPQIQKTVSAAG.....IAVELV
 GVPMLDINCIDVG....TIPVNLVNEKLIKRRHAMVPLFSRG...TNLYLATDDPSKQASIKIIFHTG.....LNTHAI
 GIAYCDLNSLDKE....SFPRDAISEKLVQRHRVPLWRRG...NKLFGVSDPANHQAINDVQFSTG.....LTTEAI
 AEPYFDLDVYDTS....QIPKDLVDQKLLIKHRILPLIQRG...QILYVATSNPSNIEAIDAIRFNSK.....LVVEPV
 GEPLDLGVFDPA....LFLDKKIDKLIQKRIIMPLVHRG...HVLVYVATSNPTNIEAMDAIRFNSK.....LKVEPI

161
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	EMRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS	
NTDB id 1410 SGL RS13950 WP 010873519.1	EMRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS	672
NTDB id 1028 TT RS08215 WP 011173991.1	.....	889
NTDB id 1306 DR RS10060 WP 027479822.1	.....	887
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	562
NTDB id 1293 VP RS12240 WP 005479695.1	.....	561
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	561
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	558
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	574
NTDB id 175993 PA11803 RS27330 WP 003120945.1	.....	566
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
consensus		

-  non conserved
-  similar
-  $\geq 50\%$ conserved