

logo

	MSXLRIGDRRLGAALLDAGYLDNQLQRALERHAEVGGRLAEVLYDSGYZERRIASXIEBFGIPLVNLHAEVETBPKK	
NTDB id 1410 SGL RS13950 WP 010873519.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKK	0
NTDB id 1028 TT RS08215 WP 011173991.1	.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL	80
NTDB id 1306 DR RS10060 WP 027479822.1	.....	79
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 1060695 ACFWQH RS23750 WP 021264132.1	.....	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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	RSLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P	
NTDB id 1410 SGL RS13950 WP 010873519.1	RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLIEIVVPSGA	0
NTDB id 1028 TT RS08215 WP 011173991.1	.....	158
NTDB id 1306 DR RS10060 WP 027479822.1	.....	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 1060695 ACFWQH RS23750 WP 021264132.1	.....	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	SDAGRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL	0
NTDB id 1028 TT RS08215 WP 011173991.1	.....	237
NTDB id 1306 DR RS10060 WP 027479822.1	.....	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 1060695 ACFWQH RS23750 WP 021264132.1	.....	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 1410 SGL RS13950 WP 010873519.1
 NTDB id 1028 TT RS08215 WP 011173991.1
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 NTDB id 1060695 ACFWQH RS23750 WP 021264132.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1

.....MTS
 LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALALPQAWEEFRRAYPQKNRLGEVLVQEGKLSR
 GSMLRADALRLLAVPVDETEQGVTVLTS DPRKRKPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLGEQLVQEGTLSR

3
317
317
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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
 NTDB id 1306 DR RS10060 WP 027479822.1
 NTDB id 1168 A1552VC RS11070 WP 000957200.1
 NTDB id 1293 VP RS12240 WP 005479695.1
 NTDB id 1401 DSB67 RS12665 WP 010643259.1
 NTDB id 1110 NGFG RS09235 WP 003689817.1
 NTDB id 1251 GCO85 RS07725 WP 011946523.1
 NTDB id 1060695 ACFWQH RS23750 WP 021264132.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1

SSSSKKSRAVALRNYFSPFGNKLIVAGCHVDAEQLRQALVQVKKTCRSLPEELKAVTGRELSPELRQYKKNQLFELKVLV
 EALKEALEVQKGLPRAKPLGETLVELGLARPEDVEEALQKQRRGGRIEDTLV..QSGKIRPEALAQAV.....ATQL
 DQLREALQVQAREGKVKPLGGEVITELGFASPDVEVDSALQKQNVGGRIEDTLV..QSGKLSPEMLARSL.....AAQL
MLTNLVAIILRQAEILISATQEQAVVTQVSASGTSVPEALL..ELSFHAQELTEQL.....SHIF
MHSNLSTILRQKGLLIFSQEESLIEQVKASGISMPEALL..SSGFFTSSELAEHL.....SSIF
MLTNLSTVLRQAGILTFQSQEESLIEQVKASGISMPEALL..SSGFFQSHELTEHL.....SSVF
MSVGLLRILVQNQVVTVEQAEHYYNES..QAGKEVLPMLF..SDGVIISPKSLAALI.....ARVF
MALATEEYRLQGITQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIV..KNKILSAEQIALTA.....AQNF
MNDSIQLSGLSRQLVQANLLDEKTALQAQAQAQRNKLVLVTHLV..QNKLVSGLAELAELS.....AEQF
MSALHTSPKFTGFFRRLVVEEKHVSAAATMQTALDAAKRAKQDVTVAYLII..EEVHLSPSLLAETI.....SAEF
MSAFTTPPKFSGFIRRIVVEEGYVNAQNMQQALEKAKKFKQDIPVYLI..DNFISPLTIAEII.....SLEF

83
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NTDB id 1410 SGL RS13950 WP 010873519.1
 NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1306 DR RS10060 WP 027479822.1
 NTDB id 1168 A1552VC RS11070 WP 000957200.1
 NTDB id 1293 VP RS12240 WP 005479695.1
 NTDB id 1401 DSB67 RS12665 WP 010643259.1
 NTDB id 1110 NGFG RS09235 WP 003689817.1
 NTDB id 1251 GCO85 RS07725 WP 011946523.1
 NTDB id 1060695 ACFWQH RS23750 WP 021264132.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1

GVDSDPEVAPIATQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRIILRVKGF..ELRRL
 GYPYVDPEEDPPD....PGAPLLLPEDLCRRYGVFPHRLEG...NRLVLLMKDPRNIALADDVRLALKRKLNYEVAPA
 GYFELDPIQNPPD....PKVALMIPAEATARRVVPVRLQG...NSLVVAMKDPNRNVFALDDLKLITG.....KETLPA
 GLPETDLRSYDYA....NLCCQLGLRELITRYDALPIAKQG...NLLLAVSDPTLLQAEFFRFATG.....LQVELA
 GLSQPELSQYEYA....SLCQLGLRELITRHNAIPLHRTF...STLLAVADPTNQQAEDDFRFATG.....LQVELV
 GLSCTSLNQYEYA....SLCQLGLRDLITRHNAIPLNRTS...STLILAVADPTNIQAEDDFRFATG.....LQVELV
 SYSILDLRHYPRH....RVLMLGVLTEEQMVEFHCVPVFRFG...DKVFFAVSDPTQMPQIQKTVSAAG.....LAVELV
 GVPMLDINCIDVG....TIPVNLVNEKLIKRRHAMVPLFSRG...TNLYLATDDPSKQASIKEIFHTG.....LNTHAI
 GIAYCDLNSLDKE....SFPRDAISEKLVQRHRVPLWRRG...NKLFGVSDPANHQAINDVQFSTG.....LTTEAI
 AEPYFDLDVYDTS....QIPKDLVDQKLLIKHRILPLIQRG...QILYVATSNPSNIEAIDAIRFNSK.....LQVEPV
 GEPLDLGVFDPA....LFLDKKIDKLIQKIRIMPLVHRG...HVLVYVATSNPTNIEAMDAIRFNSK.....LKVEPI

161
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consensus

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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 1060695 ACFWQH RS23750 WP 021264132.1	566
NTDB id 1058 ABD1 RS01615 WP 001274986.1	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved