

logo

		MSXLRIGDRRLGAALLDAGYLDNQLQRALERHAEVGGSLAEVLYDSGYSERRIASXIEBFGIPLVNLHAEVETBPXK	
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	.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL	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 1035410	ACA344 RS26040 WP 023094327.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018	ACIAD RS01685 WP 004920473.1	.....	0
consensus		.....	0

logo

		RSLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P	
NTDB id 1410	SGL RS13950 WP 010873519.1	.....	0
NTDB id 1028	TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..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 1035410	ACA344 RS26040 WP 023094327.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018	ACIAD RS01685 WP 004920473.1	.....	0
consensus		.....	0

logo

		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	SDAGRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFFHPGEEVL	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 1035410	ACA344 RS26040 WP 023094327.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018	ACIAD RS01685 WP 004920473.1	.....	0
consensus		.....	0

logo

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 GC085 RS07725 WP 011946523.1  
 NTDB id 1035410 ACA344 RS26040 WP 023094327.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1

.....MTS  
 LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALALPQAWHEELFRAYPQKNRLGEVLVQEGKLSR  
 GSMLRADALRLLAVPVDETEQGVTVLTS DPRKRKPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLGEQLVQEGTLSR

3  
317  
317  
0  
0  
0  
0  
0  
0  
0  
0  
0  
0

consensus

logo

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 GC085 RS07725 WP 011946523.1  
 NTDB id 1035410 ACA344 RS26040 WP 023094327.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1

SSSSKKSRAVALRNYFSPFGNKLIVAGCHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPELRQYKKNQLFELKVLV  
 EALKEALEVQKGLPRAKPLGETLVELGLARPEDVEEALQKQRRGGRIEDTLV..QSGKIRPEALAQAV.....ATQL  
 DQLREALQVQAREGKVKPLGGEVITELGFASPDVEVDSALQKQNVGGRIEDTLV..QSGKLSPEMLARSL.....AAQL  
 .....MLTNLVAILLRQAE LISATQEQAVVTQVSASGTSVPEALL..ELSFHAQELTEQL.....SHIF  
 .....MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALL..SSGFFTSSELAEHL.....SSIF  
 .....MLTNLSTVLRQAGILTFSQEESLIEQVKASGISMPEALL..SSGFFQSHELTEHL.....SSVF  
 .....MSVGLLRILVQNQVVTVEQAEHYYNES..QAGKEVLPMLF..SDGVI SPKSLAALI.....ARVF  
 .....MALATEEYRLQGITQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIV..KNKILSAEQIALTA.....AQNF  
 .....MNDSIQLSGLSRQLVQANLLDEKTALQAQAQAQRNKL SLVTHLV..QNKLVSGLLAELLS.....AEQF  
 .....MSALHTSPKFTGFFRRLVVEEKHVSAAATMQTALDAAKRAKQDTVAYLI..EEVHLSPSLLAETI.....SAEF  
 .....MSAFTTPPKFSGFIRR LVEEGYVNAQNMQQALEKAKKFKQDIPVYLI..DNFISPLTIAEII.....SLEF

83  
388  
388  
57  
57  
57  
56  
65  
62  
65  
65

consensus

logo

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 GC085 RS07725 WP 011946523.1  
 NTDB id 1035410 ACA344 RS26040 WP 023094327.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1

GVDSDPEVAPIATQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRIILRVKGF..ELRRL  
 GYPYVDPEEDPPD....PGAPLLLPEDLCRRYGVFPHRLEG...NRLVLLMKDPRNIALDDVRLALKRKLNYEVAPA  
 GYFELDPIQNPPD....PKVALMIPAEATARRVVPVRLQG...NSLVVAMKDPNRVFDLKLITG.....KETLPA  
 GLPETDLRSYDYA....NLCCQLGLRELITRYDALPIAKQG...NLLLAVSDPTLLQAEFFRFATG.....LQVELA  
 GLSQPELSQYEYA....SLCQLGLRELITRHNAIPLHRT...STLLAVADPTNQAEDDFRFATG.....LQVELV  
 GLSCTSLNQYEYA....SLCQLGLRDLITRHNAIPLNRTS...STLILAVADPTNQAEDDFRFATG.....LQVELV  
 SYSILDLRHYPRH....RVLMGVLTQQMVEFHCVPVFRFG...DKVFFAVSDPTQMPQIQKTVSAAG.....LAVELV  
 GVPMLDINCIDVG....TIPVNLVNEKLIKRRHAMVPLFSRG...TNLYLATDDPSKQASLKEIQFHTG.....LNTHAI  
 GIAYCDLNSLDKE....SFPRDTISEKLVQRHRVPLWRRG...NKLFGVSDPANHQAINDVQFSTG.....LTTEAI  
 AEPYFDLDVYDTS....QIPKDLVDQKLLIKHRILPLIQRG...QILYVATSNPSNIEAIDAIRFNSK.....LVVEPV  
 GEPLDLGVFDPA....LFLDKKIDKLIQKRIIMPLVHRG...HVLVYVATSNPTNIEAMDAIRFNSK.....LKVEPI

161  
460  
455  
124  
124  
124  
123  
132  
129  
132  
132




consensus





logo

	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 1035410 ACA344 RS26040 WP 023094327.1	.....	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