

logo

		MSXLSIGDRRLGAALLDRLDNLQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	
NTDB id 1410	SGL RS13950 WP 010873519.1	.....	0
NTDB id 1028	TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
NTDB id 1306	DR RS10060 WP 027479822.1	.MALSIGDRRLGAILLDQGYLGDNLDLQRALERHSEVGGRLADVLLIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL	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 331180	PAKB6 RS23955 WP 126213211.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1		0
NTDB id 1018	ACIAD RS01685 WP 004920473.1		0
consensus			

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		SLTPAEKAKELRAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP.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	RSIRPQTALNLQAFPPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIIVVPSGA	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 331180	PAKB6 RS23955 WP 126213211.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1		0
NTDB id 1018	ACIAD RS01685 WP 004920473.1		0
consensus			

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		SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA	
NTDB id 1410	SGL RS13950 WP 010873519.1	.....	0
NTDB id 1028	TT RS08215 WP 011173991.1	SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA	237
NTDB id 1306	DR RS10060 WP 027479822.1	SDAGRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEEGEGTTFLPNPSGFGHPGEEVL	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 331180	PAKB6 RS23955 WP 126213211.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1		0
NTDB id 1018	ACIAD RS01685 WP 004920473.1		0
consensus			

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NTDB id 1410 SGL RS13950 WP 010873519.1	MTS	3
NTDB id 1028 TT RS08215 WP 011173991.1	LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARYLALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
NTDB id 1306 DR RS10060 WP 027479822.1	GSMLRADALRLLAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLLGEQLVQEGTLSR	317
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 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 331180 PAKB6 RS23955 WP 126213211.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1		0
NTDB id 1018 ACIAD RS01685 WP 004920473.1		0
consensus		

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NTDB id 1410 SGL RS13950 WP 010873519.1	SSSSKKSRAVALRNYFSPFGNKLIVAGCHVDAEQLRQALVQVVKTKGRSLPEELKAVTGRELSPPELLRQYKKNQLFELKVLV	83
NTDB id 1028 TT RS08215 WP 011173991.1	EALKEALEVQKGLPRAKPLGETLVELGIARPEDVEEALQKQRRGGGRLEDTLVQ..SGKLRPEALAAQAV.....ATQL	388
NTDB id 1306 DR RS10060 WP 027479822.1	DQLREALQVQAREGKVKPLGDEVITELGFASPDDEVDSALQKQNVGGGRLEDTLVQ..SGKLSPEMLARSL.....AAQL	388
NTDB id 1168 A1552VC RS11070 WP 000957200.1	MLTNLVAILRQAEILISATQEQAVVTQVSASGTSVPEALLE..LSIFHAQELTEQL.....SHIF	57
NTDB id 1293 VP RS12240 WP 005479695.1	MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLS..SGFFTISSELAEHL.....SSIF	57
NTDB id 1401 DSB67 RS12665 WP 010643259.1	MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLS..SGFFQSHELTEHL.....SSVF	57
NTDB id 1110 NGFG RS09235 WP 003689817.1	MSVGLLRILVQNQVVTVEQAQEHYYNES.QAGKEVLPMLFS..DGVISPKSLAALI.....ARVF	56
NTDB id 1251 GC085 RS07725 WP 011946523.1	MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVK..NKILSAEQIALTA.....AQNF	65
NTDB id 331180 PAKB6 RS23955 WP 126213211.1	MNDSIQLSGLSRQLVQANLLDEKTAVQAQAQAQRNKLSLVTHLVQ..SKLVSGLALAEELS.....AEQF	62
NTDB id 1058 ABD1 RS01615 WP 001274986.1	MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAAKRAKQDTVAYLIE..EVHLSPSLLAETI.....SAEF	65
NTDB id 1018 ACIAD RS01685 WP 004920473.1	MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDTPVPLYID..NFSISPLTTAEIT.....SLEF	65
consensus	* * * * *	

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NTDB id 1410 SGL RS13950 WP 010873519.1	GVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRILRVKGF..ELRRL	161
NTDB id 1028 TT RS08215 WP 011173991.1	GYPYVDPEEDPPD....PGAPLLLPEDLCRRYGVFPHRLEG...NRLVLMLKDPNRNIALDDVRLALKRKGLNYEVAPA	460
NTDB id 1306 DR RS10060 WP 027479822.1	GYEFLDPIQNPPD....PKVALMPEATARRVVPVRLQG...NSLVVAMKDPNRNVFALDDLKLITG....KEILPA	455
NTDB id 1168 A1552VC RS11070 WP 000957200.1	GLPETDLRSYDYA....NLCQQGLGLRELITRYDALPIAKQG...NLLLLAVSDPTLLQAEFEFRFATG....LQVELA	124
NTDB id 1293 VP RS12240 WP 005479695.1	GLSQPELSQYEYA....SLCQQGLGLRELITRHNALPLHRT...STLLLAVADPTNQQAEDDFRFATG....LQVELV	124
NTDB id 1401 DSB67 RS12665 WP 010643259.1	GLSCTSLNQYEYA....SLCQTLGLRDLITRHNALPLNRTS...STLILAVADPTNLQAEDDFRFATG....LQVELV	124
NTDB id 1110 NGFG RS09235 WP 003689817.1	SYSILDLRHYPRH....RVLMLGVLTEEQMVVEFHCVPVFRRG...DKVFFAVSDPTQMPQIQKTVSAAG....IAVELV	123
NTDB id 1251 GC085 RS07725 WP 011946523.1	GVPMLDINCIDVG....TIPVNLVNEKLIKRRHAMVPLFSRG...TNLYLATDDPSKQASLKEIQFHTG....LNTHAI	132
NTDB id 331180 PAKB6 RS23955 WP 126213211.1	GIAYCDLNSLDKE....SFPRDAISEKLVQRHVIPLWRRG...NKLFGVTSDPANHQAINDVQFSTG....LTTEAI	129
NTDB id 1058 ABD1 RS01615 WP 001274986.1	AEPYFDLDVYDTS....QIPKDLVDQKLILKHRILPLIQRG...QILYVATSNPSNIEAIDAIRFNASK....LKVEPV	132
NTDB id 1018 ACIAD RS01685 WP 004920473.1	GEPLLDLGVFDPA....LFLKDKIDEKLIQKYRIMPLVHRG...HVLVYVATSNPTNIEAMDAIRFNASK....LKVEPI	132
consensus	* * * * *	

NTDB id 1410	SGL RS13950 WP 010873519.1	VVTQDDFNQLLEQQYAAIREEWEAAQEKRDRERALDKLNDLTDIVGSIDMNLGDEKEDVDNALDSNDA	NQAPVILNVNKIL	241
NTDB id 1028	TT RS08215 WP 011173991.1	VATEAATITKLIERFYGKAELSEIA..KEFA.....KKQAEEFV...PSPLELDESAAQKFVKQVI	515	
NTDB id 1306	DR RS10060 WP 027479822.1	VMAEKDIIRLIERYFGKEGF EKLN..KELA.....ERNKTQS..QEADLSVADESAIVQVVSII	512	
NTDB id 1168	A1552VC RS11070 WP 000957200.1	LADHRA LQAAIRRLYGRSIQGAANQGKEISQDEL.....ANLVKVSDDEL..SIEDLSQD DSPSRFINQVL	190	
NTDB id 1293	VP RS12240 WP 005479695.1	LADFRELSTAIRRLYGRSLSGHEKSGLKEINQEEL.....ASLVDVGAEID..NIEDLSQ DESPVSRINQIL	190	
NTDB id 1401	DSB67 RS12665 WP 010643259.1	LADFRELTAAIRRLYGRSLGQEKSGLKEINQDEL.....AGLVDIGEDEIE..NIEDLSQ DESPVSRINQIL	190	
NTDB id 1110	NGFG RS09235 WP 003689817.1	IVEDDQLAGLLDWVGSRSTSL.LQ...ELGEG.....QEEEESH TLYIDNEEA EDGPVPRFIHKTL	180	
NTDB id 1251	GCO85 RS07725 WP 011946523.1	VVETDKLSALIDNLLTAKESQGLS...EYVEDSGD.....L...EGLEISA DDEDQDIDTATSVTDDAPIVKFVNKIL	199	
NTDB id 331180	PAKB6 RS23955 WP 126213211.1	LVEDDDKLGLAIDKLFESATDG.....LAGLDDVD.....L...EGLDIGSADKSTQ.EDASAEA DDAPVVRFVNKML	192	
NTDB id 1058	ABD1 RS01615 WP 001274986.1	IVEHHKLEKVLGQHFAEESSF.....DFND EEFD.....L...DV.NLDGPTAQED.EEFAPQG DEAPIVKYINKLL	194	
NTDB id 1018	ACIAD RS01685 WP 004920473.1	IVEHDKLERLLSEHFVEETHF.....NFDT EEID.....L...DV.EVDPHTTDDD.DEDDKLK DEAPIVKYINKLL	194	
consensus		*** * **** ** *** *		

NTDB	id	1410	SGL RS13950 WP 010873519.1	AKALQEGTSDIHVEPQEETLRIRFRKDGVLNQAFDPLPRKITPAVVARFKIMADMDIAERRSPQDGKIRRIYQ..GRKVD	319
NTDB	id	1028	TT RS08215 WP 011173991.1	REAFQLQDASDIHIIEPRQNADVQVRLRIDGALRPYST.LPKGALNAVISVVKIMGGLNIAEKRLPQDGRVRY..REGAIDVD	592
NTDB	id	1306	DR RS10060 WP 027479822.1	REAALQDASDIHIETTEDAVKVRYRIGDALREQNS.FPKGAAQQIMARLKIMGHLDIAERRVPQDGRVRF..KKGSIDL	589
NTDB	id	1168	A1552VC RS11070 WP 000957200.1	LDAVRKGASDIHFEPYENMYRVRLRCDGILVETQQ.PASHLSRRLSARIKILSKLDIAERRLPQDGRIKLRLS.DTAID	268
NTDB	id	1293	VP RS12240 WP 005479695.1	LDAVRKGASDIHFEPYEKMYRVRLRCDGILVETQQ.PPNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAID	268
NTDB	id	1401	DSB67 RS12665 WP 010643259.1	LDAVRKGASDIHFEPYENMYRVRLRCDGILVETQQ.PPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAID	268
NTDB	id	1110	NGFG RS09235 WP 003689817.1	SDALRS GASDIHFEFYEHNAIRIRFRVDGQLREV VQ.PPIAVRGQLASRIKVM SRLDISERKRIPQDGRMQLTFQKGGKPVD	259
NTDB	id	1251	GC085 RS07725 WP 011946523.1	LDAIRQGASDIHFEPYEREYRIRYRQDGLIHEVAT.PPASLSSRTITARIKVM SNLDISERRIPQDGGFKMKISK.SRAID	277
NTDB	id	331180	PAKB6 RS23955 WP 126213211.1	LDAIKGSSDLHFEPYEKIYRVFRFTDMLHEVAK.PPIQLASRI SARLKVMAGLDISERRKPPQDGRIMRVSK.TKSID	270
NTDB	id	1058	ABD1 RS01615 WP 001274986.1	IDAIRMGASDLHFEPYEKSYRVRYRV DGV LRL QIAN.PPLQLANRLA SRLKVM SQMDISEKRVPPQDGRIKLKLSK.SK AID	272
NTDB	id	1018	ACIAD RS01685 WP 004920473.1	IDAIRMS ASDLHFEPYEKS YRVRYRV DGV LRL TAT.PPLQLATRLA SRLKVM SQMDISEKRVPPQDGRIKLKLSK.SK TID	272
consensus				**!!** **!!**!!** *!*! !!*! * * * * * * * * * * * * * * *	

[illegible]

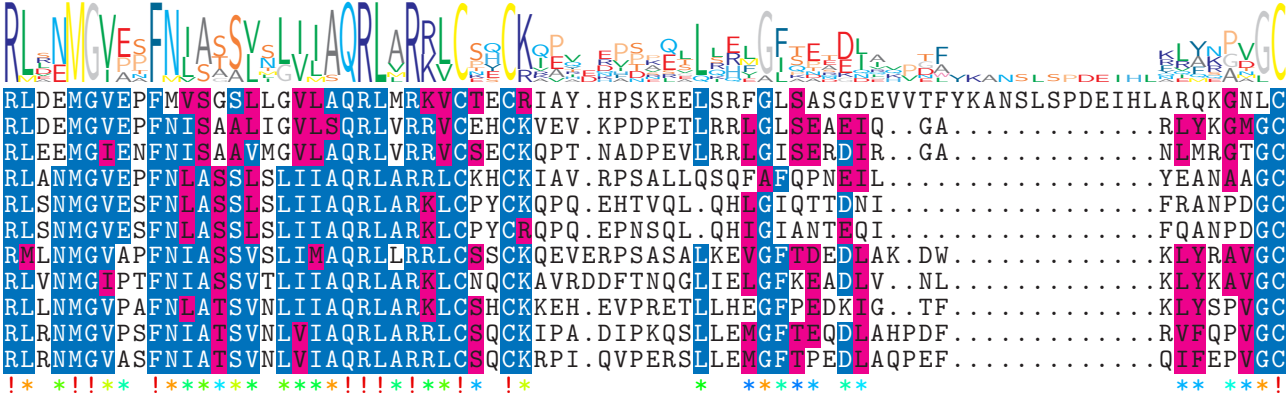
logo

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
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NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 331180 PAKB6 RS23955 WP 126213211.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



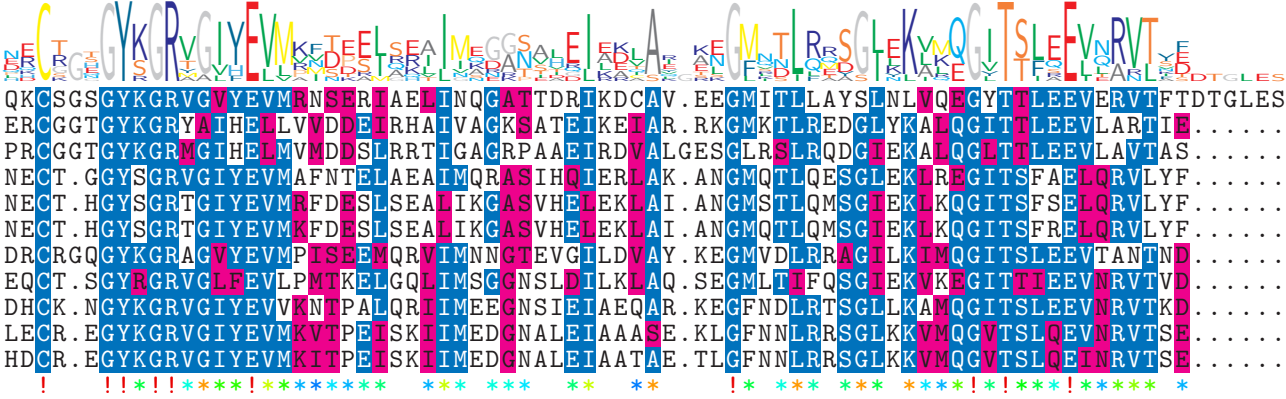
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NTDB id 1410 SGL RS13950 WP 010873519.1
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NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



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
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NTDB id 1401 DSB67 RS12665 WP 010643259.1
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NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 331180 PAKB6 RS23955 WP 126213211.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



logo

NTDB id 1410 SGL RS13950 WP 010873519.1	EMRAKRRKSALTCRTCAAELQQEWLDCPYCMTSRFS	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 331180 PAKB6 RS23955 WP 126213211.1	.....	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