

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	MSXLSIGDRRLGAALLDQGYLDNBLQRALERHSEVGGRLAELVLYDSGGYSEERRIAEAEIESEFGLPLVNLHSEVETSPKXK	0
NTDB id 1306 DR RS10060 WP 027479822.1	.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL	79
NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV	80
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 408546 GPY55 RS11015 WP 031847489.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	SLTPAEKAKELRAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVP	0
NTDB id 1306 DR RS10060 WP 027479822.1	RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA	157
NTDB id 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVP	158
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 408546 GPY55 RS11015 WP 031847489.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	SDAGRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL	0
NTDB id 1306 DR RS10060 WP 027479822.1	SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA	237
NTDB id 1028 TT RS08215 WP 011173991.1	.....	237
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 408546 GPY55 RS11015 WP 031847489.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	MTS	3
NTDB id 1306 DR RS10060 WP 027479822.1	GSMLRADALRLLAVPVDETEQGVTVLTSDPRKRDPIDALIGRPVQLMLTRPRDIERLIEQFYPQGRGLGEQLVQEGTLSR	317
NTDB id 1028 TT RS08215 WP 011173991.1	LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 408546 GPY55 RS11015 WP 031847489.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	SSSSKKSRVALRNYSFPFGNKLIVAGCHVDAEQLRQALVQVKKTCGRSLPEELKAVTGRELSPPELLRQYKKNQLFELKVLVLY	83
NTDB id 1306 DR RS10060 WP 027479822.1	DQLREALQVQAREGKVKPLGEVITELGFASPDVDSALQKQNVGGGRLEDTLVQ..SGKLSPEMLARS.....LAAQL	388
NTDB id 1028 TT RS08215 WP 011173991.1	EALKEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGGRLEDTLVQ..SGKLRPEALAAQ.....VATQL	388
NTDB id 1168 A1552VC RS11070 WP 000957200.1	MLTNLVAILRQAEILISATQEQAIVTQVSASGTSVPEALLE..LSIFHAQELTEQ.....LSHIF	57
NTDB id 1401 DSB67 RS12665 WP 010643259.1	MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLS..SGFFQSHELTEH.....LSSVF	57
NTDB id 408546 GPY55 RS11015 WP 031847489.1	MLTNLSTILRQNGLLTFPQEEESLIEQVKASGISMPEALLS..SGFFTSSSELAAH.....LSSIF	57
NTDB id 1293 VP RS12240 WP 005479695.1	MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLS..SGFFTSSSELAEH.....LSSIF	57
NTDB id 1110 NGFG RS09235 WP 003689817.1	MSVGLLRILVQNQVVTVEQAHHYY..NESQAGKEVLPMLFS..DGVISPKSLAAL.....IARVF	56
NTDB id 1251 GC085 RS07725 WP 011946523.1	MALATEEYRLQIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVK..NKILSAEQIALT.....AAQNF	65
NTDB id 1058 ABD1 RS01615 WP 001274986.1	MSALHTSPKFTIGFFRRLVEEKHVSAAATMQTALDAAKRAKQDTVAYLIE..EVHLSPSLLAET.....ISAEF	65
NTDB id 1018 ACIAD RS01685 WP 004920473.1	MSAFTTPPKFISGFIRRLVEEGYVNAQNMQQALEKAKKFKQDTPVYPLID..NFSISPLTIAEI.....ISLEF	65
consensus	* * * * *	

logo

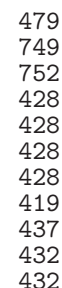
NTDB id 1410 SGL RS13950 WP 010873519.1	GVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQEGDPPSVLVAMVDPDNLAAQDELNRILRVKGF..ELRRL	161
NTDB id 1306 DR RS10060 WP 027479822.1	GYEFLDPIQNPPD....PKVALMPEATARRVVVPVRLQ...GNSLVVAMKDPRNVFALDDDLKLITG.....KEILPA	455
NTDB id 1028 TT RS08215 WP 011173991.1	GYPYVDPEEDPPD....PGAPLLLPEDLCRRYGVPFHRLE..GNRLVILMKDPRNILALDDVRLALKRKGLNVEVAPA	460
NTDB id 1168 A1552VC RS11070 WP 000957200.1	GLPETDLSRYDYA.....NLCQQLGLRELITRYDALPIAKQ...GNLLLLAVSDPTLLQAEEEFRFATG.....LQVELA	124
NTDB id 1401 DSB67 RS12665 WP 010643259.1	GLSCTSLNQYEYA.....SLCQTLGLRDLITRHNALPLNRT...SSTLILAVADPTNLQAEDDFRFATG.....LQVELV	124
NTDB id 408546 GPY55 RS11015 WP 031847489.1	GLSQPELSQYEYA.....ALCQQLGLRELITRHNALPLHRT...SSTLLLATADPTNLQAEDDFRFATG.....LQVELV	124
NTDB id 1293 VP RS12240 WP 005479695.1	GLSQPELSQYEYA.....SLCQQLGLRELITRHNALPLHRT...PSTLLLAVADPTNQQAEDDFRFATG.....LQVELV	124
NTDB id 1110 NGFG RS09235 WP 003689817.1	SYSILDLRHYPRH....RVLMGVITEEQMVEFHCVVPVFR...GDKVFFAVSDPTQMPQIQKTVSAAG.....IAVELV	123
NTDB id 1251 GC085 RS07725 WP 011946523.1	GVPMLDINCDVIG....TIPVNLVNEKLIKRRHAMVPLFSR...GTNLYLATDDPSKQASLKEIQFHTG.....LNTHAI	132
NTDB id 1058 ABD1 RS01615 WP 001274986.1	AEPYFDLDVYDTS....QIPKDLVDQKLILKHRILPLIQR...GQILYVATSNPSNIEAIDAIRFNASK....LVPEPV	132
NTDB id 1018 ACIAD RS01685 WP 004920473.1	GEPLIDLGVFDPA....LFLKDKLIDEKLIQKYRIMPLVHR...GHVLYVATSNPTNIEAMDAIRFNASK....LKVEPI	132
consensus	* * * * *	

NTDB id 1410 SGL RS13950 WP 010873519.1	VVTQDDFNQLLEEQYYAIREEWEEAAQEKRDKERALDKLNDLTDIVGSIDMNLG	EDKEEDVDNALDSNDA	NQAPVINLVNKIL	241
NTDB id 1306 DR RS10060 WP 027479822.1	VMAEKDIIRLIERYFGKGFELKNKEL.....AE.....RNKTQQSQEADLSVA	DESAIVQVVSII	512	
NTDB id 1028 TT RS08215 WP 011173991.1	VATEAAITKLIERFYGKAELSIAKEF.....AK.....KQAEEEV..PSPLEL	DESAAQKFVKQVI	515	
NTDB id 1168 A1552VC RS11070 WP 000957200.1	LADHRAIQAARIRLYGRSISGAANQGK..EI.SQDELAN.....LVKVSDELQS	IEDLSQDPSVSRFINQVL	190	
NTDB id 1401 DSB67 RS12665 WP 010643259.1	LADFRELTAAIRRLYGRSLGQKESGLK..EI.NQDELAG.....LVDIGEIEIN	IEDLSQDESPVRYINQIL	190	
NTDB id 408546 GPY55 RS11015 WP 031847489.1	LVFRELSAAIRRLYGRAIGQRSGLK..EI.NQEELAS.....LVDVGADEIDN	IEDLSQDESPVRYINQIL	190	
NTDB id 1293 VP RS12240 WP 005479695.1	LADFRELSTAIRRLYGRSLSHKESGLK..EI.NQEELAS.....LVDVGADEIDN	IEDLSQDESPVRYINQIL	190	
NTDB id 1110 NGFG RS09235 WP 003689817.1	IVEDDQLAGLLDWVGRSSTSLLQEL.....GE.....GQEEEEHSHTLY	IDNEEAEDGPVPRFIHKTL	180	
NTDB id 1251 GC085 RS07725 WP 011946523.1	VVETDKLSALIDNLLTAKESQGLSEYVEDSG.DLEGLEI.....SAD.DEDQDIDTATSVT	DDAPIVKFVNKIL	199	
NTDB id 1058 ABD1 RS01615 WP 001274986.1	IVEHHKLEKVLGGHFEESSFDNFDE...EF.D...LDV.....NLDGPTAQEDEEEAPQG	DEAPIVKYINKLL	194	
NTDB id 1018 ACIAD RS01685 WP 004920473.1	IVEHDKLERLLSEHFVEETHFNDFTE...FL.D...LDV.....EVDPHTTDDDEDKCLK	DEAPIVKYINKLL	194	
consensus	*** * ** ***** * *	** *** *	***** **	

NTDB id 1410 SGL RS13950 WP 010873519.1	AKALQE G TSDIHVEPQEEETLRIRFRKDGVLNQAFDPLPRKITPAVVVARFKIMADMDIAERRSPDQGKI R RIYQ..GRKV D	319
NTDB id 1306 DR RS10060 WP 027479822.1	REAAALQDASDIHIE T TEDAVKVR Y RIDGALR E QNS.FPKGAAQQIMARLKIMGHL L DAIARRVVPQDGRVRF..KKGSIDLD	589
NTDB id 1028 TT RS08215 WP 011173991.1	REAFLQDASDIHIEPRCNDVQVRLRIDGALRPYST.LPKGALNAVISVVKIMGGLNIAEKRLPQDGRVRY..REGAIDVD	592
NTDB id 1168 A1552VC RS11070 WP 000957200.1	LDAVRKGASDIHFEPYENQYRIRLRC D GILVETQQ.PASHLSRRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTAID	268
NTDB id 1401 DSB67 RS12665 WP 010643259.1	LDAVRKGASDIHFEPYENMYRVRLRC D GILIEIQQ.PPSHLSRRLSARIKILSKLDIAERRLPQDGRIKKL N Q.DTAID	268
NTDB id 408546 GPY55 RS11015 WP 031847489.1	LDAVRKGASDIHFEPYEKMYRVRLRC D GILIEITQQ.PPSHLSRRLSARIKILSKLDIAERRLPQDGRIKKL N Q.DTAID	268
NTDB id 1293 VP RS12240 WP 005479695.1	LDAVRKGASDIHFEPYEKMYRVRLRC D GILIEITQQ.PPNHLSRRLSARIKILSKLDIAERRLPQDGRIKKL N Q.DTAID	268
NTDB id 1110 NGFG RS09235 WP 003689817.1	SDALRS G ASDIHFEFYEHNA R IRFRV D GQLREV V Q.PPIAVRGQLASRIKIVMSRLDISEKRIPQDGRMQLTFFQKGGKPVD	259
NTDB id 1251 GC085 RS07725 WP 011946523.1	LDAIRQ G ASDIHFEPYERBYRIRYRQ D TLHEVAT.PPASLS S RITARIKIVMSNLDISERRIPQDGGF K MKISK.SRAID	277
NTDB id 1058 ABD1 RS01615 WP 001274986.1	IDAIRMGASDIHFEPYEKS Y RVRYRV D GVLRQIAN.PPLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKL S .SKAID	272
NTDB id 1018 ACIAD RS01685 WP 004920473.1	IDAIRMSASDLHFEPYEKS Y RVRYRV D GVLR L IAT.PPLQLATRLLASRLKVMSQMDISEKRVPQDGRIKLKL S .SKTID	272
consensus	* * ! * * * * * ! * ! * * * * * * * ! * ! ! * ! * ! * * * * * ! * * ! * * * * * ! * * ! * * ! * * ! * * !	

[illegible]

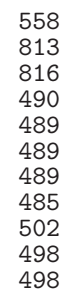
NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 408546 GPY55 RS11015 WP 031847489.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



```

NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 408546 GPY55 RS11015 WP 031847489.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

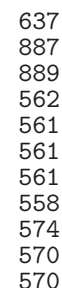
```



```

NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 408546 GPY55 RS11015 WP 031847489.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
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 1306 DR RS10060 WP 027479822.1	.....	887
NTDB id 1028 TT RS08215 WP 011173991.1	.....	889
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	562
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	561
NTDB id 408546 GPY55 RS11015 WP 031847489.1	.....	561
NTDB id 1293 VP RS12240 WP 005479695.1	.....	561
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	558
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	574
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved