

NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV	80
NTDB id 1306 DR RS10060 WP 027479822.1	.MALSIGDRRLGAILLDQGYLGNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL	79
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
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 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 973783 AABM54 RS22065 WP 347902072.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

NTDB id 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSEEEVDELTLGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P	158
NTDB id 1306 DR RS10060 WP 027479822.1	RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLLEIVVPSGA	157
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
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 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 973783 AABM54 RS22065 WP 347902072.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

NTDB id 1028	TT RS08215 WP 011173991.1	SGEGQKDKLKLGLLELLQKGWISREALEEALVEQEKTDGDLGRILV.RKGLPEEALYRALAEQKGLFLESTEGIVPDPSAA	237
NTDB id 1306	DR RS10060 WP 027479822.1	SDAGRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL	237
NTDB id 1110	NGFG RS09235 WP 003689817.1	.....	0
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 1251	GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 973783	AABM54 RS22065 WP 347902072.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018	ACIAD RS01685 WP 004920473.1	.....	0
consensus			

logo

NTDB id 1028 TT RS08215 WP 011173991.1	LSMLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
NTDB id 1306 DR RS10060 WP 027479822.1	LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
NTDB id 1110 NGFG RS09235 WP 003689817.1	GSMLRADALRLLAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPQGRGLGEQLVQEGTLSR	0
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 1251 GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 973783 AABM54 RS22065 WP 347902072.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1028 TT RS08215 WP 011173991.1	EAALKEALEVQKGLPRAKPLGEILVELCIARPEDVFEALQKQKRGCGRIEDTLVQSCKLRPEALAGAVATQLGYPYVDPEE	397
NTDB id 1306 DR RS10060 WP 027479822.1	DQLREALQVQAREGKVKPLGEVITELCFASPDEVDSEALQKQNVGCGRIEDTLVQSCKLSPEMLARSLAAQLGYEFLDPIQ	397
NTDB id 1110 NGFG RS09235 WP 003689817.1	MSVGLLRILVQNGVVTVETAEHYYNESQACKEVLPMLFSDGVIISPKSLAALIARVFSYSILDIRH	65
NTDB id 1168 A1552VC RS11070 WP 000957200.1	MLTNLVAILLRQAELISATQEQAVVTQVSASCTSVPEALLELSIFHAQELTEQLSHIFGIPETDLSR	66
NTDB id 1293 VP RS12240 WP 005479695.1	MHSNLSLILRQKGLLTFSGEESLIEQVMAASCISMPHEALLSSCFFTSSELAEHLSSIFGLSQPELSQ	66
NTDB id 1401 DSB67 RS12665 WP 010643259.1	MLTNLSTVLRQAELITFSQESLIEQVMAASCISMPHEALLSSCFFQSHETELHSSVFCISCTSLNQ	66
NTDB id 1251 GCO85 RS07725 WP 011946523.1	MALATEEYRLQGTGQLLVLEKLLDKTKAIELHKLAAAEKISLQYIVKNKILSAEQIALTAQNFQGVPMLDINC	74
NTDB id 973783 AABM54 RS22065 WP 347902072.1	MNDIALSGLAKQLVLAEVLTESAAQQAQYQHAQRSRISLASYLQVKNKLAKSRQVAETASEHFGVAFDLINC	70
NTDB id 1058 ABD1 RS01615 WP 001274986.1	MSALHTSPKFTGFFRRLVVEEKHVSAAATMQTALDAAKRAKQDVTAYLIEEVHISPSLLAETISABFAEPYFDLDV	74
NTDB id 1018 ACIAD RS01685 WP 004920473.1	MSAFTTPPKFSCFIRRLVEEGYVNAQNMQQALEKAKKFKQDVPYLLDNFSISPLTIAETISLEFCEPLLDLIGV	74
consensus	* ***** *** ***** * * * * * * * * * * * * * * *	

logo

NTDB id 1028 TT RS08215 WP 011173991.1	DPPDPGAPLLIPEDLCRRYGVFPHRLEGNRLVLLMKDPRNIALDDVRLALKRKGLNVEVAPAVATEAAITKLIERYFGA	477
NTDB id 1306 DR RS10060 WP 027479822.1	NPPDPKVALMIPEATARRVYVVPVRLQGNLSLVVAMKDPRNVFALDDKLITG.....KEILPAVMAEKDITRLIERYFGE	472
NTDB id 1110 NGFG RS09235 WP 003689817.1	YPRHRVLMGVLTETQMVFEHCVPVFFRGDKVFFAVSDPTQMPQIQKTVSAAG.....LAVELVIVEDDQLAGLDDWVGR	140
NTDB id 1168 A1552VC RS11070 WP 000957200.1	YDYANLCQQLGLRELITRYDALPIAKQCNLLLLAVSDPTLLQAEEEFRFATG.....LQVELALADHRAAQAAIRRLYGR	141
NTDB id 1293 VP RS12240 WP 005479695.1	YFYASLCQQLGLRELITRHNALPLHRTPTSTLLAVADPTNQQAEDDFRFATG.....LQVELVLADFRELSTAIRRLYGR	141
NTDB id 1401 DSB67 RS12665 WP 010643259.1	YFYASLCQTLGLRDLITRHNALPLNRTSSTLLAVADPTNLQAEDDFRFATG.....LQVELVLADFRELTAAIRRLYGR	141
NTDB id 1251 GCO85 RS07725 WP 011946523.1	IDVGTIPVNLVNEKLIKRRHAMVPLFSRGTNLYLATDPPSKQASLKEIQFHTG.....LNTHAIVVETDKLSALIDNLLTA	149
NTDB id 973783 AABM54 RS22065 WP 347902072.1	LDKETQPTGLVSEKLVQRQHHALPLWRCNKLFGVGISDPSNHNQAINDIQFSTG.....LTTETAILVEDDKLIDAIERFIDS	145
NTDB id 1058 ABD1 RS01615 WP 001274986.1	YDTSQIPKDLVDQKLLILKHRILPLLIQRGGILYVATSNPSNIEADDAIRFNSK.....LLVEPVIVEHHKLEKVLGQHFAE	149
NTDB id 1018 ACIAD RS01685 WP 004920473.1	FDPALFLKDKIDDKLILQKYRIMPLVHRGHVLYVATSNPTNIEADDAIRFNSK.....LKVEPTIVEHDKLERLISEHVE	149
consensus	** * * ** ***** ** *!* ***** * *****!*** ***** * ** ***** * ***** *	

```

NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
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 1251 GC085 RS07725 WP 011946523.1
NTDB id 973783 AABM54 RS22065 WP 347902072.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```



```

NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
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 1251 GC085 RS07725 WP 011946523.1
NTDB id 973783 AABM54 RS22065 WP 347902072.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

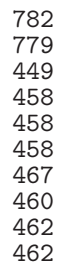
```



```

NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
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 1251 GC085 RS07725 WP 011946523.1
NTDB id 973783 AABM54 RS22065 WP 347902072.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

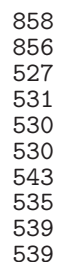
```



```

NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
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 1251 GC085 RS07725 WP 011946523.1
NTDB id 973783 AABM54 RS22065 WP 347902072.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

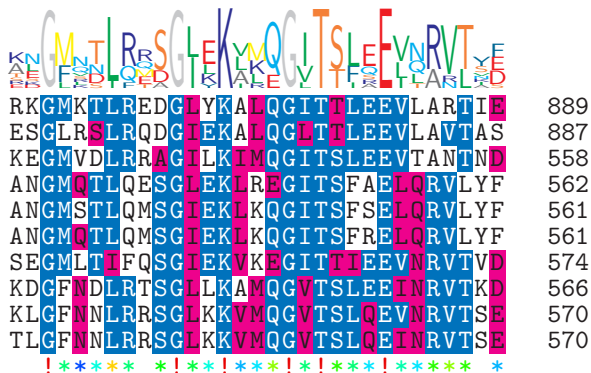
```



```

NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
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 1251 GC085 RS07725 WP 011946523.1
NTDB id 973783 AABM54 RS22065 WP 347902072.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```



-  non conserved
-  similar
-  >50% conserved