

logo

NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
NTDB id 1168 A1552VC RS11070 WP 000957200.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 406767 G0998 RS03030 WP 211904481.1	.....	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 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG	160
NTDB id 1168 A1552VC RS11070 WP 000957200.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 406767 G0998 RS03030 WP 211904481.1	.....	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 1028 TT RS08215 WP 011173991.1	EGQKDLKLGELLLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL	240
NTDB id 1168 A1552VC RS11070 WP 000957200.1	EGQKDLKLGELLLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 406767 G0998 RS03030 WP 211904481.1	.....	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 1028 TT RS08215 WP 011173991.1	LRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSREAL	320
NTDB id 1168 A1552VC RS11070 WP 000957200.1	LRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSREAL	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 406767 G0998 RS03030 WP 211904481.1	.....	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 1028	TT RS08215 WP 011173991.1	MSYQTLLDMLTNLSRRVVOEGLTIAEQELLAKAGISLPEXYSSGIFSPAEETSSYEGPDLQYD	400
NTDB id 1168	A1552VC RS11070 WP 000957200.1	KEALEVQKGLPRAKPLGEILVELGLIARPEDEVEALIQKQRRGGRIEDTLVQSGKLRPEALAQAVATQLGYPYVDPPEEDPP	69
NTDB id 1401	DSB67 RS12665 WP 010643259.1	MLTNLVAILRQAELISATQEQAQVITQVSASGTSVPEALLSIFHAQELTEQLSHIFGLPETDLSRYDY	69
NTDB id 1293	VP RS12240 WP 005479695.1	MLTNLSTVLRQAGILTFSQEESLIEQVKASGISMPEALLSSGFFTSSELAEHLSSIFGLSQPELSQYDY	69
NTDB id 406767	G0998 RS03030 WP 211904481.1	MTLGLAL....AQSRRIAPTLLTQLEQ....SAREKRTQLTIDELVSSGIMSADHLAVFVAGKYQMPLLDLAQYKL	67
NTDB id 1110	NGFG RS09235 WP 003689817.1	...MSVGLLR....IL....VQNNQ..VVTVEQAEHYYNESQAGKEVLPMFLSDGVISPKSLAALIARVFSYSILDLRHYPR	68
NTDB id 1251	GC085 RS07725 WP 011946523.1	...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAQAQNFVPMPLDINCIDV	77
NTDB id 1058	ABD1 RS01615 WP 001274986.1	...MSALHTSPKFTIGFFRRLVEEKHVSAAATMQTALDAAKRAKQDITVAYLIEEVHLSPLSLAETISAEFAEYFDDLVDVDT	77
NTDB id 1018	ACIAD RS01685 WP 004920473.1	...MSAFTTPPKFSGFIRRLVEEYGVNAQNMQALEKAKKFKQDITVPYLLIDNFSISPLTIAETISLEFGEPLLDLVGFDP	77
consensus		* * * * *	

logo

NTDB id 1028	TT RS08215 WP 011173991.1	DPGAPLLIPEDLCRRYGVFPHRLGEGNRIIVILMKDPRNIALDDVRLALKRKGLNVEVAPAVATEAAITKLIERFYGKAEL	480
NTDB id 1168	A1552VC RS11070 WP 000957200.1	ANLCQQQLGLRELITRYDALPIAKQGNLLLLAVSDPTLLQAEFEFRFATG.....LQVELALADHRALQAAIRRLYGRSII	144
NTDB id 1401	DSB67 RS12665 WP 010643259.1	ASLCQTLGLRLDITRHNALPLNRSTSLILAVADPTNLQAEDDFRFATG.....LQVELVLADFRELTAAIRRLYGRSLG	144
NTDB id 1293	VP RS12240 WP 005479695.1	ASLCQQQLGLRELITRHNALPLHRTPTSTLLAVADPTNQQAEEDDFRFATG.....LQVELVLADFRELSTAIRRLYGRSLS	144
NTDB id 406767	G0998 RS03030 WP 211904481.1	DAVPAVLSANRHFQQLRLLPLGLRRDNRITIVATSDPSDPKPIEELRQKMN.....VATETVIVEHDKLVLRQLSLANEAPTE	142
NTDB id 1110	NGFG RS09235 WP 003689817.1	HRVLMGVLTIEQMVEFHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAG.....IAVELVIVEDDQLAGLLDWVGSRTS	143
NTDB id 1251	GC085 RS07725 WP 011946523.1	GTIPVNLVNEKLIKRRHAMVPLFSRGNTLYLATDDPSKQASLKEIQFHTG.....LNTHAIVVETDKLSALIDNLLTAKES	152
NTDB id 1058	ABD1 RS01615 WP 001274986.1	SQIPKDLVDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSK.....LLVEPVIVEHHKLEKVLGQHFAEES	152
NTDB id 1018	ACIAD RS01685 WP 004920473.1	ALFLDKKIDKELLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSK.....LKVEPVIVEHDKLERLLSEHFVEETH	152
consensus		* * * * *	

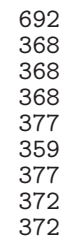
logo

NTDB id 1028	TT RS08215 WP 011173991.1	SEIAKEF....AK.....KQAEFEVPSPLELDESAAQKFVKQVIREAFLQDASDIHIEPRQNDVQVRLRIDGALR	546
NTDB id 1168	A1552VC RS11070 WP 000957200.1	GAANQ GK..EISQDELANLVKV.SDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQYRIIRLRCDGILV	221
NTDB id 1401	DSB67 RS12665 WP 010643259.1	QEKSGLK..EINQDELAGLVDI.GEDEIENIEDLSQDESPPVSRFINQVLLDAVRKGASDIHFEPYENMYRVRRLCDGILI	221
NTDB id 1293	VP RS12240 WP 005479695.1	HEKSGLK..EINQDELASLVV.GADEINIEDLSQDESPPVSRFINQVLLDAVRKGASDIHFEPYENMYRVRRLCDGILI	221
NTDB id 406767	G0998 RS03030 WP 211904481.1	I...KSLIP...KQEAQIEYDPGAAAVRRTTTDGIIDDAVPVVRFLQKLFTALLRGTSDLHFEPFETFYRVRFRIDGILS	217
NTDB id 1110	NGFG RS09235 WP 003689817.1	L..LQELG...E...GQEE...EESHTLYIDNEEAEDGPVPRFIHKTLSDALRSGASDIHFEPYEHNAIRIRFRVDGQLR	211
NTDB id 1251	GC085 RS07725 WP 011946523.1	QGLSEYVEDSGDLEGLEISAD..DEDQDIDTATSVTDDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIIRYRQDGILH	230
NTDB id 1058	ABD1 RS01615 WP 001274986.1	FDFNDE...EFD...LDVNLDG.PTAQEDDEEAPQGDDEAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRVRVDGVLR	225
NTDB id 1018	ACIAD RS01685 WP 004920473.1	FNFDTE...ELD...LDVEVDP.HTTDDDDDDKCLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRVRVDGVLR	225
consensus		* * * * *	

logo

NTDB id 1028	TT RS08215 WP 011173991.1	PYSTLPKGALNAVISVVKIMGGNLIAEKRLPQDGRVRYREG.....AIDVDLRLSTLPTVYGEKAVMRLLK	612
NTDB id 1168	A1552VC RS11070 WP 000957200.1	ETQQPASHLSRRLAARIKILSKLDIAERRLPQDGRIKRLRSR.....DTAIDMRVSTLPTLWGEKIVLRLLD	288
NTDB id 1401	DSB67 RS12665 WP 010643259.1	EIQQPPSHLSRRLSARIKILSKLDIAERRLPQDGRIKRLKLNQ.....DTAIDMRVSTLPTLFGKIVLRLLD	288
NTDB id 1293	VP RS12240 WP 005479695.1	ETQQPPNHLRRLSARIKILSKLDIAERRLPQDGRIKRLKLNQ.....DTAIDMRVSTLPTLFGKIVLRLLD	288
NTDB id 406767	G0998 RS03030 WP 211904481.1	QVAQPPLDIRDKIATRIKVLRLDISEKRVPPQDGRMKLLITVPKDKNDKDNKETIERAIDFRVSTLPTLFGKIVIRILE	297
NTDB id 1110	NGFG RS09235 WP 003689817.1	EVVQPPPIAVRGQLASRIKVMRSLDISEKRIPQDGRMQLTFQK.....GGKPVDFRVSTLPTLFGKIVVMRILN	279
NTDB id 1251	GC085 RS07725 WP 011946523.1	EVATPPASLSSRITARIKVMRSLDISEKRIPQDGGFKMKISK.....SRAIDFRVSTCPTSAGEKIVVMRVLN	297
NTDB id 1058	ABD1 RS01615 WP 001274986.1	QIANPPLQLANRLASRLKVMRSLDISEKRIPQDGRMKLLKLSK.....SKAIDFRVNSLPTLFGKIVLRLD	292
NTDB id 1018	ACIAD RS01685 WP 004920473.1	LIATPPLQLATRLASRLKVMRSLDISEKRIPQDGRMKLLKMSK.....SKTIDFRVNSLPTLFGKIVLRLD	292
consensus		* * * * *	

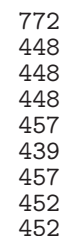
```
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 406767 G0998 RS03030 WP 211904481.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus
```



```

NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 406767 G0998 RS03030 WP 211904481.1
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

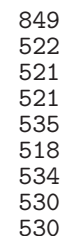
```



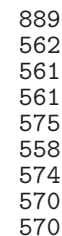
```

NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 406767 G0998 RS03030 WP 211904481.1
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 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 406767 G0998 RS03030 WP 211904481.1
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
```



 non conserved
 similar
 $\geq 50\%$ conserved