

logo

NTDB id 1028	TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
NTDB id 1366	NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355	HI 0298 AAC21962.1	.....	0
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1468	ASU2 RS05090 WP 014991734.1	.....	0
NTDB id 1436	BW25113 RS00530 WP 001025145.1	.....	0
NTDB id 1168	A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401	DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293	VP RS12240 WP 005479695.1	.....	0
NTDB id 1110	NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251	GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 1018	ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	.....	0
consensus			

logo

NTDB id 1028	TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG	160
NTDB id 1366	NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355	HI 0298 AAC21962.1	.....	0
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1468	ASU2 RS05090 WP 014991734.1	.....	0
NTDB id 1436	BW25113 RS00530 WP 001025145.1	.....	0
NTDB id 1168	A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401	DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293	VP RS12240 WP 005479695.1	.....	0
NTDB id 1110	NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251	GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 1018	ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	.....	0
consensus			

logo

NTDB id 1028	TT RS08215 WP 011173991.1	EGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLFLESTEGIVDPDPSAALLL	240
NTDB id 1366	NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355	HI 0298 AAC21962.1	.....	0
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1468	ASU2 RS05090 WP 014991734.1	.....	0
NTDB id 1436	BW25113 RS00530 WP 001025145.1	.....	0
NTDB id 1168	A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401	DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293	VP RS12240 WP 005479695.1	.....	0
NTDB id 1110	NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251	GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 1018	ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	.....	0
consensus			

logo

NTDB id 1028	TT RS08215 WP 011173991.1	LRSDALRYGAVPIGFQNGEVEVLSDPRIKEAVAQLLNRPARFYALALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSREAL	320
NTDB id 1366	NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355	HI 0298 AAC21962.1	.....	0
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1468	ASU2 RS05090 WP 014991734.1	.....	0
NTDB id 1436	BW25113 RS00530 WP 001025145.1	.....	0
NTDB id 1168	A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401	DSB67 RS12665 WP 010643259.1	.....	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 1018	ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	.....	0
consensus			

logo

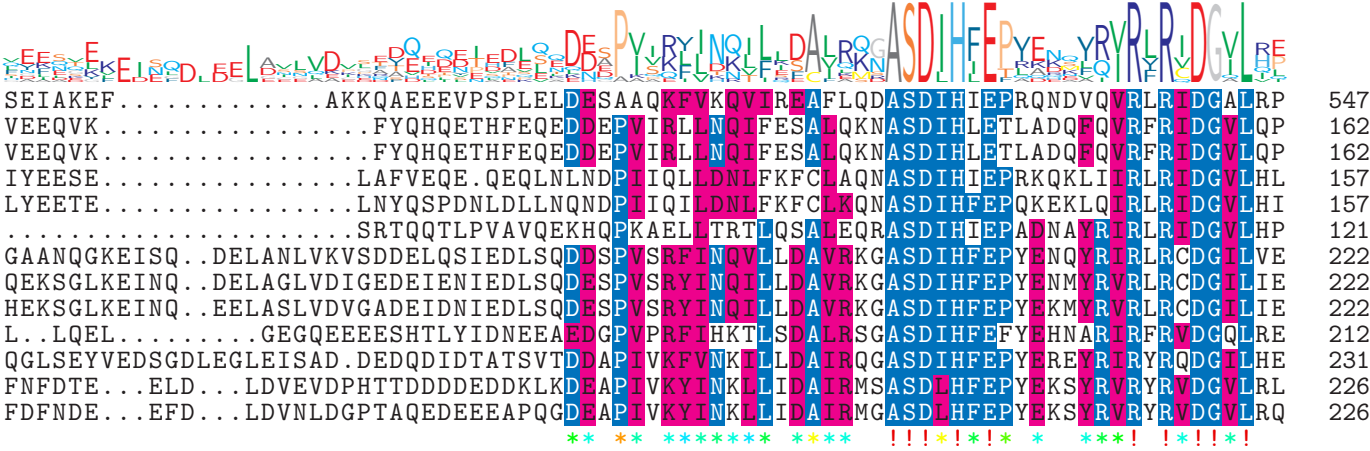
NTDB id 1028	TT RS08215 WP 011173991.1	KEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGGRLEDTLVQSGKLRPEALAQAVATQLGYPYVDPEEDPP	400
NTDB id 1366	NTHI RS01950 WP 011271972.1	MTSY....ALLHTQRVTAQNGEIFTI.....SP	24
NTDB id 1355	HI 0298 AAC21962.1	MTSY....ALLHTQRVTAKNGEVFTI.....SP	24
NTDB id 1384	A4U84 RS08525 WP 010787006.1	MSQY....T....ICEQQTERIFDI.....SP	19
NTDB id 1468	ASU2 RS05090 WP 014991734.1	MQY....S....VCDMNSQQVFDI.....SE	18
NTDB id 1436	BW25113 RS00530 WP 001025145.1	MNIPQL.....	6
NTDB id 1168	A1552VC RS11070 WP 000957200.1	MLTNLVAI LRQAELISATQEAVVTQVSASGTSVPEAL LELSIFHAQELTEQLSHIFGLPETDLSTRYDY	69
NTDB id 1401	DSB67 RS12665 WP 010643259.1	MLTNLSTV LRQAGILTFSQEESSLLEQVKASGISMPEALLSSGFFQSHELTEHLSSVFGLSCTSLNQYFY	69
NTDB id 1293	VP RS12240 WP 005479695.1	MHSNLSLTLRQKGLLTFSQEESSLIEQVKASGISMPEALLSSGFFTSSSLAEHLSSIFGLSQPELSQYFY	69
NTDB id 1110	NGFG RS09235 WP 003689817.1	MSVGLLRILVQNVVTVTEQAEHYY.NESQAGKEVLPMFLSDGVISPKSLAALIARVFSYSILDLRHYPR	68
NTDB id 1251	GC085 RS07725 WP 011946523.1	...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFQVPMLDINCIDV	77
NTDB id 1018	ACIAD RS01685 WP 004920473.1	...MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIIISLEFGEPLLDLGVFDP	77
NTDB id 1058	ABD1 RS01615 WP 001274986.1	...MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAKRAKQDTVAYLIEEVHLSPSLLAETISAEFAEPYFDLDVYDT	77
consensus			

logo

NTDB id 1028	TT RS08215 WP 011173991.1	DPGAPLLLPEDLCRRYGVFPHRLEGNRVLMLKDPNRLALDDVRLALKRKGLNVEVAPAVATEAAITKLTIERFYGKAEL	480
NTDB id 1366	NTHI RS01950 WP 011271972.1	DLWERNQQQQSLILRYFALPLKEENNRLWLGVDLSNLSACETIAFITGK....PVEPILLESSQLKELLQQLTPHQM	99
NTDB id 1355	HI 0298 AAC21962.1	DLWERNQQQQSLILRYFALPLKEENNRLWLGVDLSNLSACETIAFITGK....PVEPILLESSQLKELLQQLTPNQ	99
NTDB id 1384	A4U84 RS08525 WP 010787006.1	SRWQKNCEEKQLILRYLAVPVQETEHKLWLAVDENNLTACEIFAFMTHK....QIEPVVIASDELKYLLNALSPEQ	94
NTDB id 1468	ASU2 RS05090 WP 014991734.1	SLWQKNCDEKHILRLYLAPIQENDDTLWLAIDDMNLSACEIFAFIAHK....TIEPVLISSDELKYLLNQLSPEQ	93
NTDB id 1436	BW25113 RS00530 WP 001025145.1	TALCLRYHGVLLDASEEVVHVAVVDAPSHELLDALHFATTK....RIEITCWTRQQMEGHA.....	63
NTDB id 1168	A1552VC RS11070 WP 000957200.1	ANLCQQLGLRELITRYDALPIAKQGNLILLAVSDPTLLQAEFEFRFATGL....QVELALADHRAALQAATIRRLYGR	144
NTDB id 1401	DSB67 RS12665 WP 010643259.1	ASLCQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEDDFRATGL....QVELVLADFRELTAATIRRLYGR	144
NTDB id 1293	VP RS12240 WP 005479695.1	ASLCQQLGLRELITRHNALPLHRTPTSTLLAVADPTNQQAEDDFRATGL....QVELVLADFRELSTAIRRLYGR	144
NTDB id 1110	NGFG RS09235 WP 003689817.1	HRVLMGVLTEEQMVVEFHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAGI....AVELVIVEDDQLAGLLDWV	143
NTDB id 1251	GC085 RS07725 WP 011946523.1	GTIPVNLVNEKLIKRRHAMVPLFSRGTNLYLATDPSKQASLMKEIQFHTGL....NTHAIVVETDKLSALIDNLTAKES	152
NTDB id 1018	ACIAD RS01685 WP 004920473.1	ALFLDKDIDEKLIKRIPLVHRGHVLYVATSNPTNIEAMDKIRFNSKL....KVEPIIVETHDKFIRLLSEHFVEETH	152
NTDB id 1058	ABD1 RS01615 WP 001274986.1	SQIPKDLVDQKLLIKHRIPLLIQRGQILYVATSNPSNIEAIDAIRFNSKL....LVEPVIVEHHKLEKVLGQHFAEES	152
consensus			

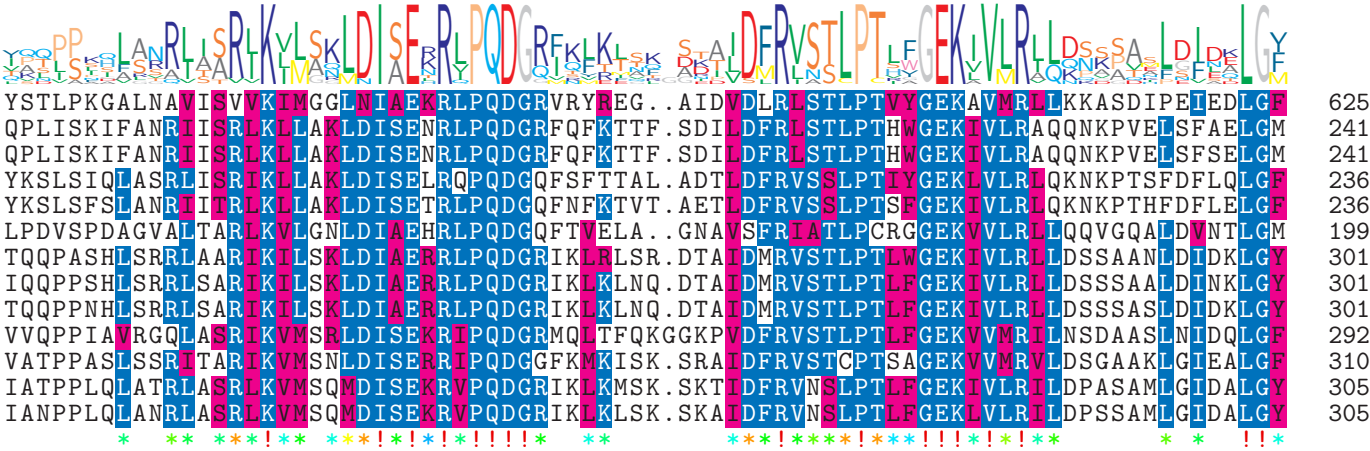
logo

NTDB	id	1028	TT	RS08215	WP	011173991.1
NTDB	id	1366	NTHI	RS01950	WP	011271972.1
NTDB	id	1355	HI	0298	AAC21962.1	
NTDB	id	1384	A4U84	RS08525	WP	010787006.1
NTDB	id	1468	ASU2	RS05090	WP	014991734.1
NTDB	id	1436	BW25113	RS00530	WP	001025145.1
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	1110	NGFG	RS09235	WP	003689817.1
NTDB	id	1251	GC085	RS07725	WP	011946523.1
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1
NTDB	id	1058	ABD1	RS01615	WP	001274986.1
consensus						



logo

NTDB	id	1028	TT	RS08215	WP	011173991.1
NTDB	id	1366	NTHI	RS01950	WP	011271972.1
NTDB	id	1355	HI	0298	AAC21962.1	
NTDB	id	1384	A4U84	RS08525	WP	010787006.1
NTDB	id	1468	ASU2	RS05090	WP	014991734.1
NTDB	id	1436	BW25113	RS00530	WP	001025145.1
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	1110	NGFG	RS09235	WP	003689817.1
NTDB	id	1251	GC085	RS07725	WP	011946523.1
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1
NTDB	id	1058	ABD1	RS01615	WP	001274986.1
consensus						



logo

NTDB	id	1028	TT	RS08215	WP	011173991.1
NTDB	id	1366	NTHI	RS01950	WP	011271972.1
NTDB	id	1355	HI	0298	AAC21962.1	
NTDB	id	1384	A4U84	RS08525	WP	010787006.1
NTDB	id	1468	ASU2	RS05090	WP	014991734.1
NTDB	id	1436	BW25113	RS00530	WP	001025145.1
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	1110	NGFG	RS09235	WP	003689817.1
NTDB	id	1251	GC085	RS07725	WP	011946523.1
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1
NTDB	id	1058	ABD1	RS01615	WP	001274986.1
consensus						



```

NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 AU084 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
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 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

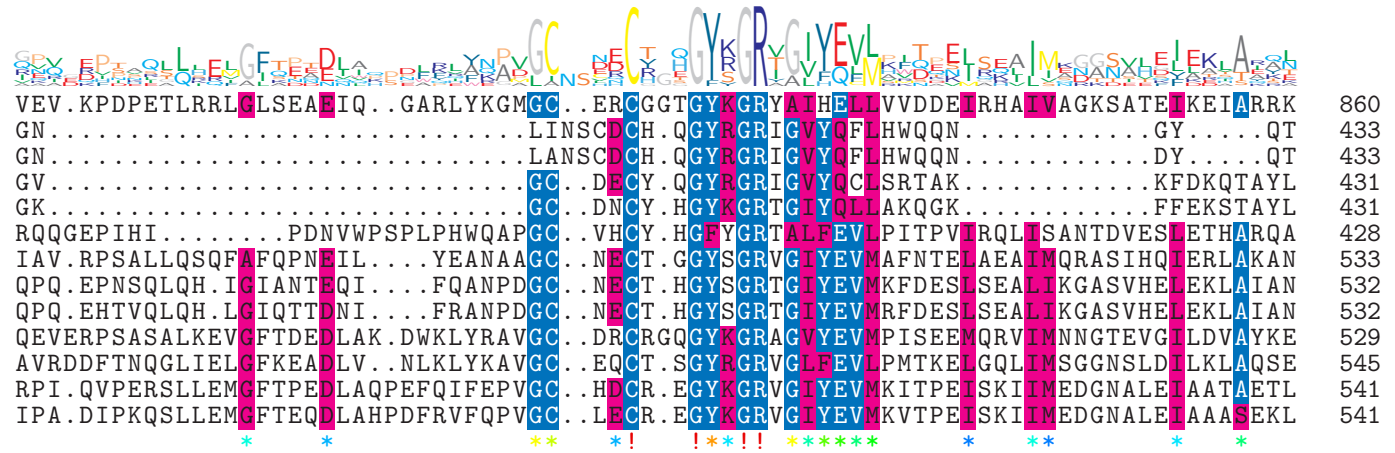
```



```

NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 AU084 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
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 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

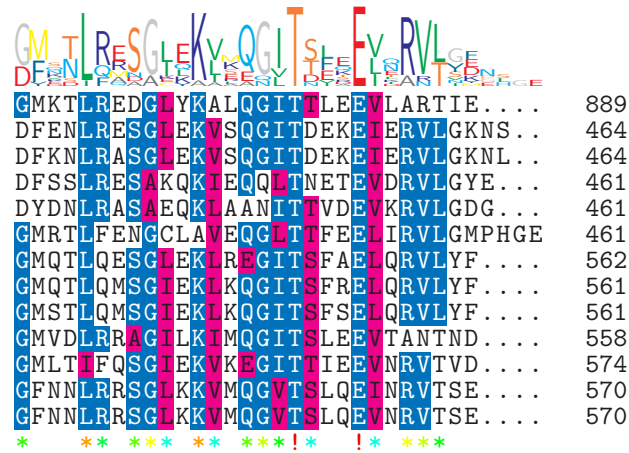
```



```

NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
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 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

```



 non conserved
 similar
 $\geq 50\%$ conserved