

logo

NTDB id 1366 NTHI RS01950 WP 011271972.1	MTSYALLHTQRVTAQNGEIFTISPDLWERNQQQQSLLRLRYFALPLKEENNRLWLGVDSLSNLSACETIAFITGKPVEPIL	80
NTDB id 1177 A1552VC RS01165 WP 000422572.1	.....	0
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	0
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	0
NTDB id 131923 EC036 RS18780 WP 029883139.1	.....	0
NTDB id 1307 DR RS10055 WP 010888596.1	.....	0
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	0
NTDB id 1116 NGFG RS10615 WP 003690200.1	.....	0
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.....	0
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.....	0
NTDB id 1283 ACE17W RS02630 WP 010947729.1	.....	0
NTDB id 1259 GC085 RS10305 WP 010947729.1	.....	0
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	0
NTDB id 1194 PAKAF RS01995 WP 003084552.1	.....	0
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	0
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	0
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	0
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	0
consensus		

logo

NTDB id 1366 NTHI RS01950 WP 011271972.1	LESSQLKELLQLLTPHQMVEEQVKFYQHETHFEQEDDEPVIRLLNQIFESALQKNASDIHLETADQFQVRFRIDGVL	160
NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITV...CAPILYRVDGEL	34
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITA...GVPPSMKVNGKI	34
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMMAKHKASDLFITA...GVEPSLKINGEI	34
NTDB id 131923 EC036 RS18780 WP 029883139.1	MDVEEIVALSVKHNVSDLHLCS...DSPRWRRRVGRL	34
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDTILAA...GLPPQFKLSGDY	38
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSS...GISPMIRVHGD	34
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSS...GISPMIRVHGD	34
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSA...GVPPMVRIDGEV	34
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSA...GVPPMVRIDGEV	34
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNKSSDLHISA...GMPPMIRVDGDL	34
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNKSSDLHISA...GMPPMIRVDGDL	34
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGASDLHLSS...GLPPMIRVDGDV	34
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGASDLHLSA...GLPPMIRVDGDV	34
NTDB id 1020 ACIAD RS04210 WP 011182164.1	MDITELLAFSVQNRASDLHLSA...GIPPMIRVDGEV	34
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSA...GMPPMIRVDGEV	34
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSA...GMPPMIRVDGEV	34
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSA...GMPPMIRVDGEV	34
consensus	*** ***** *!!***** ******!***	

```

NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 131923 EC036 RS18780 WP 029883139.1
NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1185 GTF74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GC085 RS10305 WP 010947729.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
consensus

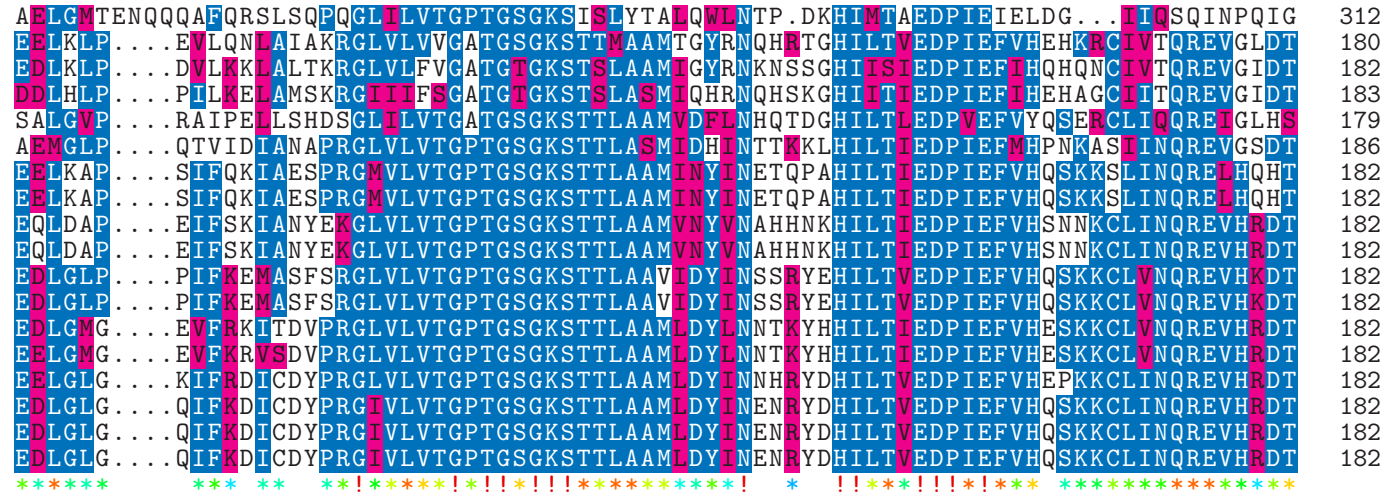
```



```

NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 131923 EC036 RS18780 WP 029883139.1
NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1185 GTF74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GC085 RS10305 WP 010947729.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
consensus

```



NTDB	id	1366	NTHI	RS01950	WP	011271972.1	LDFSRLLRAFLRQDPDIIMLGEIRDEESARIAALRAAQTGHLVLSLTLHTND	AISAISRLQQIGI.....QQHEIENSLLL	386
NTDB	id	1177	A1552VC	RS01165	WP	000422572.1	ESYEVALKNSLRQAPDMILIGEIRSRRETMEYAMTFAETGHLICMATLHANNANQALERILHLVPKEEQREQFLLDLSLNCLKG		260
NTDB	id	1203	PSJM300	01605	AFN	76401.1	DSFEVALKNTLRQAPDVILIGEVRTRTEMMDHAVAFATGHLCLATLHANNANQALDRIINFPPADRQRNQVWMDLSLNKLKA		262
NTDB	id	1019	ACIAD	RS04205	WP	004922051.1	DSFEIALKNTLRQAPDVILIGEIRSRREVMDDYALAFATGHLVFLATLHANNANQTIERLIHFDFADRHHQITFMDLSLNKLKA		263
NTDB	id	131923	EC036	RS18780	WP	029883139.1	PSFAEALRALREDPDVILLGELRDSETIRLALTAAETGHLVLATLHTRGASQAIRLVDTFPAQEKPDRVNQLAGSLRA		259
NTDB	id	1307	DR	RS10055	WP	01088596.1	LSFDDELRALRALQAPDVILVGEMRDYETIKAAVTAAETGHLVMTGLHTNSAPESIDRIVDVFPPEEQQEQRVQLANNLVA		266
NTDB	id	1086	NMV	RS00245	WP	002218487.1	LSFNALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGLTHTTGAAKTVDRIVDVFPAGEKEMVRSMLSESLTA		262
NTDB	id	1116	NGFG	RS10615	WP	003690200.1	LSFNALSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGLTHTTGAAKTVDRIVDVFPAGEKEMVRSMLSESLTA		262
NTDB	id	1185	GTF74	RS11940	WP	000350195.1	HSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGLTHTSSAAKTIDRIIDVFPGSDKDMVRSMLSESLRA		262
NTDB	id	1176	A1552VC	RS01160	WP	000350195.1	HSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGLTHTSSAAKTIDRIIDVFPGSDKDMVRSMLSESLRA		262
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1	LSFNALRSALREDPDIIILVGELRDLETIRLAMTAETGHLVFGLTHTNSATKTINRIIDVFPAAEKSMVRSMLSELQA		262
NTDB	id	1259	GC085	RS10305	WP	010947729.1	LSFNALRSALREDPDIIILVGELRDLETIRLAMTAETGHLVFGLTHTNSATKTINRIIDVFPAAEKSMVRSMLSELQA		262
NTDB	id	1202	PSJM300	01600	AFN	76400.1	LGFSEALRSALREDPDIIILVGEMRDLLETIRLALTAAETGHLVFGLTHTTSAAKTIDRVVDVFPAAEEKSMVRSMLSELQA		262
NTDB	id	1194	PAKAF	RS01995	WP	003084552.1	LGFSEALRSALREDPDIIILVGEMRDLLETIRLALTAAETGHLVFGLTHTTSAAKTIDRVVDVFPAAEKAMVRSMLSELQS		262
NTDB	id	1020	ACIAD	RS04210	WP	011182164.1	LGFNEALRSALREDPDIIILVGEMRDLLETIRLALTAAETGHLVFGLTHTTSAAKTIDRIIDVFPAAEKDMVRTMLSELQA		262
NTDB	id	1060	ABD1	RS04380	WP	000355489.1	HGFNEALRSALREDPDIIILVGEMRDLLETIRLALTAAETGHLVFGLTHTTSAAKTIDRVVIDVFPAAEKDMVRAMLSELQA		262
NTDB	id	1040	HON27	RS13360	WP	000355489.1	HGFNEALRSALREDPDIIILVGEMRDLLETIRLALTAAETGHLVFGLTHTTSAAKTIDRVVIDVFPAAEKDMVRAMLSELQA		262
NTDB	id	1081	FDQ49	RS05335	WP	006581387.1	HGFNEALRSALREDPDIIILVGEMRDLLETIRLALTAAETGHLVFGLTHTTSAAKTIDRVVIDVFPAAEKDMVRAMLSELQA		262
consensus							* * *	* ! * * * ! * * * ! * ! * * * ! * ! * *	! * * * * ! * * * ! * ! ! ! * * * ! ! * * * ! * * * * ! * * * * * ! * * * * * ! * * * * ! *

NTDB	id	1366	NTHI	RS01950	WP	011271972.1	VIAQRLVRKICP.....KCGGNLINS	CDCHQGYRGRIGVYQFLHWQQNGYQTDFENLR	ESGLEKVSGGITDE	453
NTDB	id	1177	A1552VC	RS01165	WP	000422572.1	VIAAQLLRDKNKGKRHGVFEVLINSPRIADLI	RERGE.....LHELKATMARSQEVMQTFDQAL	IYQLVVDKKISE	330
NTDB	id	1203	PSJM300	01605	AFN	76401.1	IVAQQLVPTPDGKGRRAVIEVLINTPLAADLI	RKGE.....VHELKGLMKRSTDLGMQTFDQAL	YNLYVVGGEITY	332
NTDB	id	1019	ACIAD	RS04205	WP	004922051.1	VISQQLIPTHDGQSRAAEVLLINTPLLSDIYR	GEE.....TYKIKELMARSGELGMQTFDQAL	FLDYDHQHISY	333
NTDB	id	131923	EC036	RS18780	WP	029883139.1	VLAQRLLIPD.LQGGRVALYEVLNTPAAANLIR	EKG.....TWLPGLIIQTGGQAAGMQTFDQSL	AEERRAQGRLL..	326
NTDB	id	1307	DR	RS10055	WP	01088596.1	VMTQQLLPFADGGQGRVLAYEILLANPAVRALR	EKG.....TFQITSVMQTGAREGMVTMDAYLAGL	FRRHLITY	336
NTDB	id	1086	NMV	RS00245	WP	002218487.1	VISQNLLKTHDGNRGVASHEILIANPAVRNLIR	ENK.....ITTQINSVLQTGGASGMQTMDDQSL	QSLVLRQGLIAP	332
NTDB	id	1116	NGFG	RS10615	WP	003690200.1	VISQNLLKTHDGNRGVASHEILIANPAVRNLIR	ENK.....ITTQINSVLQTGGASGMQTMDDQSL	QSLVLRQGLIAP	332
NTDB	id	1185	GTF74	RS11940	WP	000350195.1	VIAQKLLKR.VGGGRVACHEIMLATPAIRNLIR	EDK.....VAQMYSIIQTGAAHGMQTEQNAKQLI	TARGVVDA	331
NTDB	id	1176	A1552VC	RS01160	WP	000350195.1	VIAQKLLKR.VGGGRVACHEIMLATPAIRNLIR	EDK.....VAQMYSIIQTGAAHGMQTEQNAKQLI	TARGVVDA	331
NTDB	id	1283	ACE17R	RS02630	WP	010947729.1	VVAQSLLKK.NKGGRVAALEIMCTGAIRNLIR	EDK.....TAQMYSIIQTGQAKGMQTLDQHLT	ELTVLNKNIISK	331
NTDB	id	1259	GC085	RS10305	WP	010947729.1	VVAQSLLKK.NKGGRVAALEIMCTGAIRNLIR	EDK.....TAQMYSIIQTGQAKGMQTLDQHLT	ELTVLNKNIISK	331
NTDB	id	1202	PSJM300	01600	AFN	76400.1	VISQTLCLKK.VGGGRVAAHEIMIGTPAIRNLIR	EDK.....VAQMYSIIQTGGSLSGMQTLDSCLKGL	LAKGLISR	331
NTDB	id	1194	PAKAF	RS01995	WP	003084552.1	VISQTLCLKK.IGGGRVAAHEIMIGTPAIRNLIR	EDK.....VAQMYSIIQTGGSLSGMQTLDMCKL	KGLVAKGLISR	331
NTDB	id	1020	ACIAD	RS04210	WP	011182164.1	VISQTLCLKK.EGGGRVAAHEIMIGIPAIRNLIR	EKG.....VAQMYSIIQTGATHGMTTLDQSLKQL	LIAKGIINL	331
NTDB	id	1060	ABD1	RS04380	WP	000355489.1	VISQTLCLKK.NGGGRVAAHEIMIGIPAIRNLIR	ENK.....VAQMYSIIQTGANHGMMTTLDQSLKGL	LVARGVISP	331
NTDB	id	1040	HON27	RS13360	WP	000355489.1	VISQTLCLKK.NGGGRVAAHEIMIGIPAIRNLIR	ENK.....VAQMYSIIQTGANHGMMTTLDQSLKGL	LVARGVISP	331
NTDB	id	1081	FDQ49	RS05335	WP	006581387.1	VISQTLCLKK.NGGGRVAAHEIMIGIPAIRNLIR	ENK.....VAQMYSIIQTGANHGMMTTLDQSLKGL	LVARGVISP	331
consensus							***! !*** **********! ** *	***** **** * **** * *	* * *	

logo

NTDB id 1366 NTHI RS01950 WP 011271972.1	KE.IERVLGKNS.....	464
NTDB id 1177 A1552VC RS01165 WP 000422572.1	QD AL HS AD SANDLRLMLKTKR.GDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	ED ALL H AD SSNDLRLMIKLGS.ETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	AD AL K H ADSPNNLRLQIKLSE.EANKPLDNRERMSEMER.....KMTFDGQRRNLK.....	383
NTDB id 131923 EC036 RS18780 WP 029883139.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	DK C LER A IDPKEFARLANDASAGLGG.....ASMTPAAPPVPAYNSASSSSSTGRGGDFGRGAAAPATPAAPAAGRSEPGR	411
NTDB id 1086 NMV RS00245 WP 002218487.1	EV ARRR AQ NSESM SF	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	EA ARRR AQ NSESM SF	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	QEVQSKI EL DLKA F	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	QEVQSKI EL DLKA F	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	HT A HE A AL NK.S L F	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	HT A HE A AL NK.S L F	344
NTDB id 1202 PSJM300 01600 AFN76400.1	DS A KE K AK QP.E N F	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	EN A RE K AK IP.E N F	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	PT A RA V AK SP.E S F	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	QT A RT A AK QP.E S FL	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	QT A RT A AK QP.E S FL	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	QT A RT A AK QP.E S FL	345
consensus	* * *	

logo

NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	464
NTDB id 1177 A1552VC RS01165 WP 000422572.1	.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 131923 EC036 RS18780 WP 029883139.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	AGGF GRR	418
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	345
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved