

```

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 27399 P9303 RS00110 WP 011129398.1
NTDB id 1307 DR RS10055 WP 01088596.1
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 1194 PAKAF RS011995 WP 003084552.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
consensus

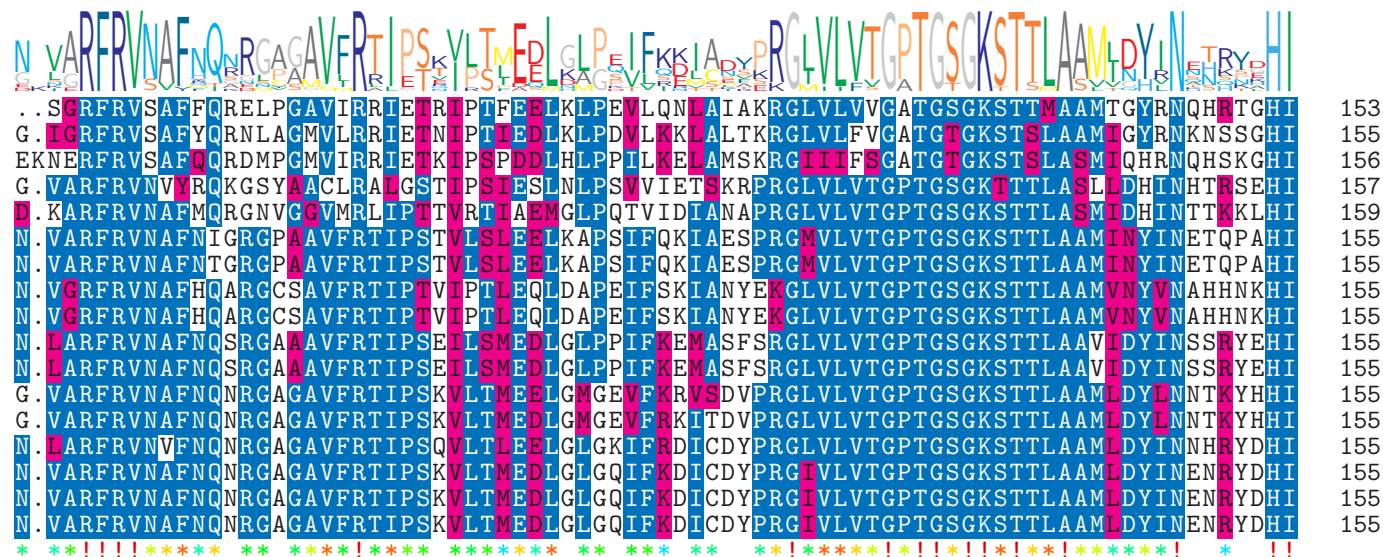
```



```

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 27399 P9303 RS00110 WP 011129398.1
NTDB id 1307 DR RS10055 WP 01088596.1
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 CG085 RS10305 WP 010947729.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
consensus

```



logo

NTDB id 1177 A1552VC RS01165 WP 000422572.1	LTIVEDPIEFVHQS	KKCLINQREVHDTSE	ALRSALREDPDYILVGE	MRDLETILALTA	AETGHLVFGTLHTT	SAAK	233
NTDB id 1203 PSJM300 01605 AFN76401.1	LTIVEDPIEFVHHEH	KRCIVTQREVGLD	TSEYVALKNSLR	QAPDMILIGEIR	SRETMEYAMTFA	ETGHL	235
NTDB id 1019 ACIAD RS04205 WP 004922051.1	ITIEDPIEFVHHEH	AGCIITQREVGI	DTDSFEVALK	NLTRQAPDVIL	IGEVRTRETM	DHAVAFAETGHL	236
NTDB id 27399 P9303 RS00110 WP 011129398.1	LTIEDPIEFVYKSD	LSLVHQRQLNED	TRSFGNALRA	ALREDPDVIL	VGEMRDLETI	QLATSA	237
NTDB id 1307 DR RS10055 WP 010888596.1	LTIEDPIEFVHHP	NKASITINQREV	GSDTLSFDD	ALRAALRQAP	DVILVGE	MRDYETIKA	239
NTDB id 1086 NMV RS00245 WP 002218487.1	LTIEDPIEFVHQS	KKSLINQRELH	QHTLSFANA	ALRSALRED	PDVILVGE	MRDPETIGL	235
NTDB id 1116 NGFG RS10615 WP 003690200.1	LTIEDPIEFVHQS	KKSLINQRELH	QHTLSFANA	ALSSALRED	PDVILVGE	MRDPETIGL	235
NTDB id 1185 GTF74 RS11940 WP 000350195.1	LTIEDPIEFVHS	NNKCLINQREV	HRDTHSFK	NALRSALRED	PDVILVGE	LRDQETIS	235
NTDB id 1176 A1552VC RS01160 WP 000350195.1	LTIEDPIEFVHS	NNKCLINQREV	HRDTHSFK	NALRSALRED	PDVILVGE	LRDQETIS	235
NTDB id 1283 ACE17W RS02630 WP 010947729.1	LTIVEDPIEFVHQS	KKCLVQREVH	KDRTLSFNA	ALRSALRED	PDIIILVGE	LRDLETIR	235
NTDB id 1259 GC085 RS10305 WP 010947729.1	LTIVEDPIEFVHQS	KKCLVQREVH	KDRTLSFNA	ALRSALRED	PDIIILVGE	LRDLETIR	235
NTDB id 1194 PAKAF RS01995 WP 003084552.1	LTIEDPIEFVHES	KKCLVQREVH	RDTLGFSE	ALRSALRED	PDIIILVGE	MRDLETIR	235
NTDB id 1202 PSJM300 01600 AFN76400.1	LTIEDPIEFVHES	KKCLVQREVH	RDTLGFSE	ALRSALRED	PDIIILVGE	MRDLETIR	235
NTDB id 1020 ACIAD RS04210 WP 011182164.1	LTVEDPIEFVHEP	KKCLINQREV	HRDTHGFNE	ALRSALRED	PDIIILVGE	MRDLETIR	235
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	LTVEDPIEFVHQS	KKCLINQREV	HRDTHGFNE	ALRSALRED	PDIIILVGE	MRDLETIR	235
NTDB id 1060 ABD1 RS04380 WP 000355489.1	LTVEDPIEFVHQS	KKCLINQREV	HRDTHGFNE	ALRSALRED	PDIIILVGE	MRDLETIR	235
NTDB id 1040 HON27 RS13360 WP 000355489.1	LTVEDPIEFVHQS	KKCLINQREV	HRDTHGFNE	ALRSALRED	PDIIILVGE	MRDLETIR	235
consensus	***!!!!!!*	*****!*****!	* *	!!!!*****!*****!*****!*****!	!*	*!*****!!!!!!*****!*****!	

logo

NTDB id 1177 A1552VC RS01165 WP 000422572.1	ALERTIHIVPKE	QREQFLLDLSL	NLKG	GVIAQQLLR	DK...NGKGRH	GVFEVLINSP	RIADLI	RGEI	HELK	ATMARS	QE	309
NTDB id 1203 PSJM300 01605 AFN76401.1	ALDRIINFFPAD	RQNVWMDLS	NLKA	IVAQQLV	PTP...DGKGRRA	VEVLINT	PLAAD	LIRK	GEVHEL	KGLMKR	STD	311
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TLERIIHFFDADR	HQQIFMDLS	NLKA	VISQQLIP	TH...DGQSRRA	AVEVLINT	PLLS	DIYIR	QGEIYK	IKELMAR	SGE	312
NTDB id 27399 P9303 RS00110 WP 011129398.1	TVDRMVDVFP	PNQQTQIR	VQLSGS	LLAIFS	QTLCRRL	NLPQPEQ	FGRVMA	QEILINT	PATAN	LIREGK	TAQLYS	317
NTDB id 1307 DR RS10055 WP 010888596.1	SIDRIVDVFP	EEQEQIRV	QLANNL	VAVMTQ	QLLPRA...DGQGRV	LAYEIL	LANPA	VRALIRE	GKTFQIT	SVMQT	GAR	315
NTDB id 1086 NMV RS00245 WP 002218487.1	TVDRIVDVFP	AGEKEMVRS	MLES	SLTAVISQ	NLLKTH...DGNGRV	ASHEIL	IANPA	VRNLIRE	NKITQ	INSVLQ	TGQA	311
NTDB id 1116 NGFG RS10615 WP 003690200.1	TVDRIVDVFP	AGEKEMVRS	MLES	SLTAVISQ	NLLKTH...DGNGRV	ASHEIL	IANPA	VRNLIRE	NKITQ	INSVLQ	TGQA	311
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TIDRIIDVFP	PGSDKDMVRS	MLES	SLRAVIAQ	KLLK...VGGGRV	ACHEIM	LATPA	IRNLIRE	DKVAQ	MYSSI	IQTGA	310
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TIDRIIDVFP	PGSDKDMVRS	MLES	SLRAVIAQ	KLLK...VGGGRV	ACHEIM	LATPA	IRNLIRE	DKVAQ	MYSSI	IQTGA	310
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TINRIIDVFP	PAEEKSMVRS	MLES	SLQAVVAQ	SLLK...NKGGRV	AALEIM	MCTGA	IRNLIRE	DKIAQ	MYSSI	IQTGA	310
NTDB id 1259 GC085 RS10305 WP 010947729.1	TINRIIDVFP	PAEEKSMVRS	MLES	SLQAVVAQ	SLLK...NKGGRV	AALEIM	MCTGA	IRNLIRE	DKIAQ	MYSSI	IQTGA	310
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TIDRVVDVFP	PAEEKAMVRS	MLES	SLQSVISQ	TLLK...IGGGRV	AAHEIM	IGTPA	IRNLIRE	DKVAQ	MYSAI	IQTGS	310
NTDB id 1202 PSJM300 01600 AFN76400.1	TIDRVVDVFP	PAEEKSMVRS	MLES	SLQAVISQ	TLLK...VGGGRV	AAHEIM	IGTPA	IRNLIRE	DKVAQ	MYSSI	IQTGS	310
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TIDRIIDVFP	PAEEKDMVRT	MLES	SLQAVISQ	TLLK...EGGGRV	AAHEIM	IGIPA	IRNLIRE	GKVAQ	MYSSI	IQTGA	310
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TIDRVIDVFP	PAEEKDMVR	AMLSES	LQAVISQ	TLLK...NGGGRV	AAHEIM	IGIPA	IRNLIRE	NKVAQ	MYSAI	IQTGA	310
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TIDRVIDVFP	PAEEKDMVR	AMLSES	LQAVISQ	TLLK...NGGGRV	AAHEIM	IGIPA	IRNLIRE	NKVAQ	MYSAI	IQTGA	310
NTDB id 1040 HON27 RS13360 WP 000355489.1	TIDRVIDVFP	PAEEKDMVR	AMLSES	LQAVISQ	TLLK...NGGGRV	AAHEIM	IGIPA	IRNLIRE	NKVAQ	MYSAI	IQTGA	310
consensus	***!*****	*****!*****!	*****!	!***	*****!*****!*****!*****!	!*	*****	*****				

logo

NTDB id 1177 A1552VC RS01165 WP 000422572.1	VGMQTFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	LGMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR.	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	LGMQTFDQALFDLYDHQHSYADALKHADSPNNLRLQIKLSEEANKPLDNRRMSEMER.....KMTFDGQRRNLK.	383
NTDB id 27399 P9303 RS00110 WP 011129398.1	LGMQTFLEKALANLTKQGEISRSEAIKASK.PSELEQLLNDG.....	358
NTDB id 1307 DR RS10055 WP 010888596.1	EGMVTMDAYLAGLFRHLITYDKGLERAID.PKEFARLANDA..SAG.LGGASMTPAAPPVPAYNSASSSSTGRGGDFGR	391
NTDB id 1086 NMV RS00245 WP 002218487.1	SGMQTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	SGMQTMDQSLQSLVRQGLIAPEAARRRAQNSESMSF.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	HGMQTMENAKQLIARGVVDQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	HGMQTMENAKQLIARGVVDQEVQSKIELDLKAF.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	KGMQTLDDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	KGMQTLDDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	LGMQTLDMCLKGLVAKGLISRAREKAKI.PENF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	LGMQTLDSCLKGLIAKGLISRDSAKEKAKQ.PENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	HGMTTLDQSLKQLLAKGIINLPTARAVAKS.PESF.....	344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	HGMTTLDQSLKGLVSRGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1060 ABD1 RS04380 WP 000355489.1	HGMTTLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	HGMTTLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
consensus	! ! * ! * * * * * * ! * * * * * * * * *	

logo

NTDB id 1177 A1552VC RS01165 WP 000422572.1	CAAAAPATPAAPAAAGRSEPCRRACCFRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 27399 P9303 RS00110 WP 011129398.1	.....	358
NTDB id 1307 DR RS10055 WP 010888596.1	GAAAPATPAAPAAAGRSEPGRAGGFRR	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 1194 PAKAF RS01995 WP 003084552.1	.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	345
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	345
consensus		

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved