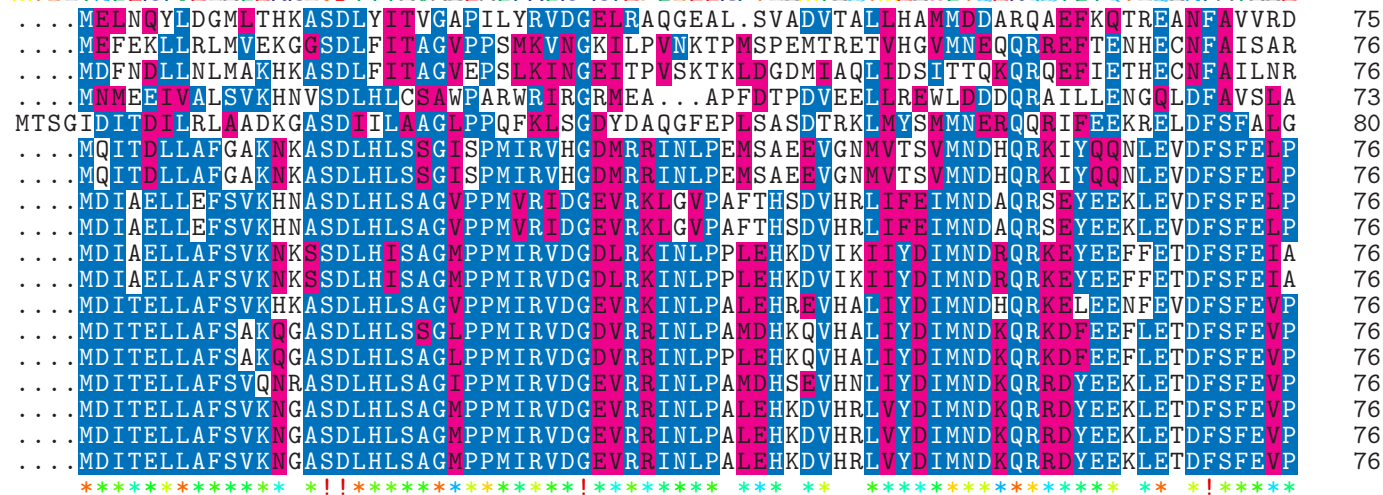


```

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 1448 BW25113 RS15320 WP 001326494.1
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 GCO85 RS10305 WP 010947729.1
NTDB id 96481 AS145 RS03415 WP 011707389.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1194 PA0395 NP 249086.1
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

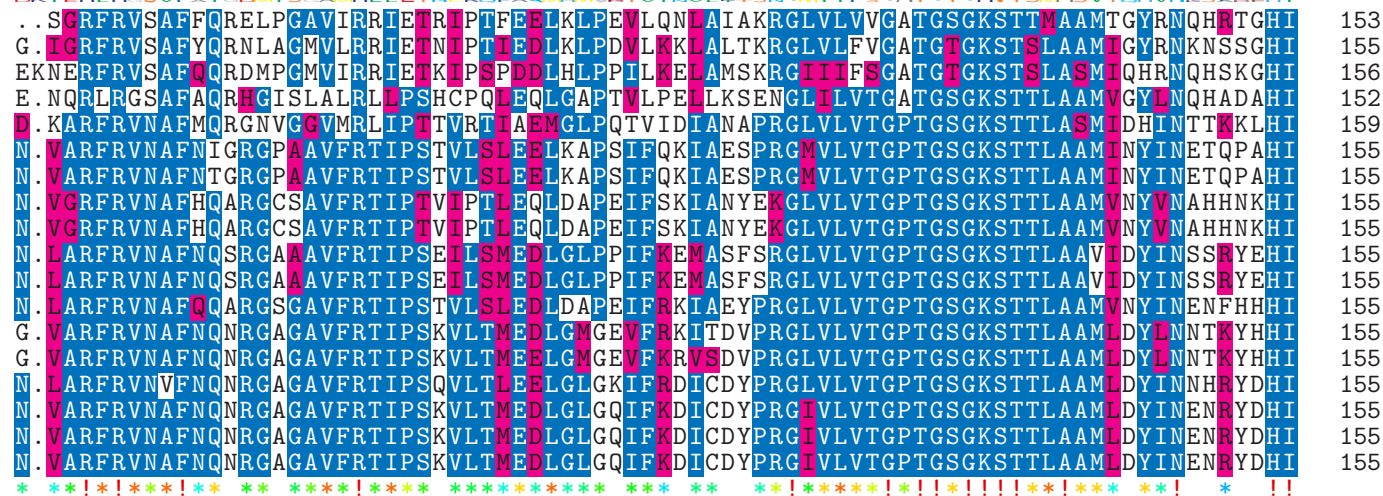
```



```

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 1448 BW25113 RS15320 WP 001326494.1
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 GCO85 RS10305 WP 010947729.1
NTDB id 96481 AS145 RS03415 WP 011707389.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1194 PA0395 NP 249086.1
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	LTVEDPIEFVHEH	KRCIVTQREVGLDTES	YEVALKNSLRQAPDMILIGEIRSR	ETMEYAMTFAETGHL	CMATLHANNANQ	233		
NTDB id 1203	PSJM300	01605	AFN76401.1	ISIEDPIEFTHQHQC	IVTQREVGIDTDSFEVAL	KNTLRQAPDVILIGEVRTRETMDH	AVAFETGHLCLATLHANNANQ	235			
NTDB id 1019	ACIAD	RS04205	WP 004922051.1	ITIEDPIEFHHEHAGC	ITQREVGIDTDSFEIAL	KNTLRQAPDVILIGEIRSR	EVMDYALAFETGHLVFA	ATLHANNANQ	236		
NTDB id 1448	BW25113	RS15320	WP 001326494.1	LTLEDPEYLYAS	QRCLIQQREIGLHCM	TFASGLRAALREDPDVILGEL	RDSSETIRLALTA	AETGHLVLA	ATLHTRGAAQ	232	
NTDB id 1307	DR	RS10055	WP 010888596.1	LTIEDPIEFMHPNK	ASTINQREVGS	DTLSFDDALRAALRQAPDVILV	GEMRDYETIKA	AVTAAETGHLVMG	TLHTNSAPE	239	
NTDB id 1086	NMV	RS00245	WP 002218487.1	LTIEDPIEFVHQ	SKKSLINQREL	HQHTLSFANALRSALREDPDVILV	GEMRDPETIGL	ALTA	AETGHLVFG	TLHTTGA	235
NTDB id 1116	NGFG	RS10615	WP 003690200.1	LTIEDPIEFVHQ	SKKSLINQREL	HQHTLSFANALSSALREDPDVILV	GEMRDPETIGL	ALTA	AETGHLVFG	TLHTTGA	235
NTDB id 1185	GTF74	RS11940	WP 000350195.1	LTIEDPIEFVHSNN	KCLINQREVHR	DTHSFKNALRSALREDPDVILV	GELRDQETIS	LALTA	AETGHLVFG	TLHTSSA	235
NTDB id 1176	A1552VC	RS01160	WP 000350195.1	LTIEDPIEFVHSNN	KCLINQREVHR	DTHSFKNALRSALREDPDVILV	GELRDQETIS	LALTA	AETGHLVFG	TLHTSSA	235
NTDB id 1283	ACE17W	RS02630	WP 010947729.1	LTVEDPIEFVHQ	SKKCLVNQREVH	KDTLSFNAALRSALREDPDVILV	GELRDLETIR	LAMTAA	AETGHLVFG	TLHTNSAT	235
NTDB id 1259	GCO85	RS10305	WP 010947729.1	LTVEDPIEFVHQ	SKKCLVNQREVH	KDTLSFNAALRSALREDPDVILV	GELRDLETIR	LAMTAA	AETGHLVFG	TLHTNSAT	235
NTDB id 96481	AS145	RS03415	WP 011707389.1	LTIEDPIEFVHEN	KRCLVNQREVHR	DTKSFNSALRSALREDPDVILV	GEMRDLETIR	LAMTAA	AETGHLVFG	TLHTSSA	235
NTDB id 1202	PSJM300	01600	AFN76400.1	LTIEDPIEFVHE	SKKCLVNQREVHR	DTLGFSEALRSALREDPDVILV	GEMRDLETIR	LALTA	AETGHLVFG	TLHTTSA	235
NTDB id 1194	PA0395	NP 249086.1		LTIEDPIEFVHE	SKKCLVNQREVHR	DTLGFSEALRSALREDPDVILV	GEMRDLETIR	LALTA	AETGHLVFG	TLHTTSA	235
NTDB id 1020	ACIAD	RS04210	WP 011182164.1	LTVEDPIEFVHEP	KKCLINQREVHR	DTLGFNEALRSALREDPDVILV	GEMRDLETIR	LALTA	AETGHLVFG	TLHTTSA	235
NTDB id 1081	FDQ49	RS05335	WP 006581387.1	LTVEDPIEFVHQ	SKKCLINQREVHR	DTHGFNEALRSALREDPDVILV	GEMRDLETIR	LALTA	AETGHLVFG	TLHTTSA	235
NTDB id 1060	ABD1	RS04380	WP 000355489.1	LTVEDPIEFVHQ	SKKCLINQREVHR	DTHGFNEALRSALREDPDVILV	GEMRDLETIR	LALTA	AETGHLVFG	TLHTTSA	235
NTDB id 1040	HON27	RS13360	WP 000355489.1	LTVEDPIEFVHQ	SKKCLINQREVHR	DTHGFNEALRSALREDPDVILV	GEMRDLETIR	LALTA	AETGHLVFG	TLHTTSA	235
consensus				***!!!!*!***	*****!!!!*!***	**	*!!!!*!***!!!!*!***	*****!!!!*!***	*****!!!!*!***	*****!!!!*!***	*****!!!!*!***

logo

NTDB id 1177	A1552VC	RS01165	WP 000422572.1	ALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLR	DKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEVGMQ	313							
NTDB id 1203	PSJM300	01605	AFN76401.1	ALDRIINFFPADRQNVWMDLSLNLKAIVAQQLVPTPDGKGRR	AVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLGMQ	315							
NTDB id 1019	ACIAD	RS04205	WP 004922051.1	TLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQS	RRAAVEVLINTPLLSDYIRQGEIYKIKELMARS	GELGMQ	316						
NTDB id 1448	BW25113	RS15320	WP 001326494.1	AVERLVDSFPAQEKDPVRNQLAGSLRAVLSQKLEVD	KQEGRVALFELLINTPAVGNLIREGKTHQLPHVI	QGTGQVGM	311						
NTDB id 1307	DR	RS10055	WP 010888596.1	SIDRIVDVFP	EEQEQIRVQLANNLVAVMTQQLLP	RADGQGRVLAYEILLANPAVRALIREGKTFQITSV	MTGAREGMV	319					
NTDB id 1086	NMV	RS00245	WP 002218487.1	TVDRIVDVFPAGEKEMVRS	MLES	SLTAVISQ	NLLKTHDGN	GRVASHEILIANPAVRNLIRENK	ITQINSV	LQTGGASGMQ	315		
NTDB id 1116	NGFG	RS10615	WP 003690200.1	TVDRIVDVFPAGEKEMVRS	MLES	SLTAVISQ	NLLKTHDGN	GRVASHEILIANPAVRNLIRENK	ITQINSV	LQTGGASGMQ	315		
NTDB id 1185	GTF74	RS11940	WP 000350195.1	TIDRIIDVFP	PGSDKDMVRS	MLES	SLRAVIAQ	KLLKR	VGGGRVACHEIM	LATPAIRN	LIREDKVAQMYSSIIQTGA	AHGMQ	314
NTDB id 1176	A1552VC	RS01160	WP 000350195.1	TIDRIIDVFP	PGSDKDMVRS	MLES	SLRAVIAQ	KLLKR	VGGGRVACHEIM	LATPAIRN	LIREDKVAQMYSSIIQTGA	AHGMQ	314
NTDB id 1283	ACE17W	RS02630	WP 010947729.1	TINRIIDVFP	PAEEKSMVRS	MLES	SLQAVVAQ	SLLKK	NKGGRVAALEIMMCTGAIRN	LIREDKIAQMYSSIQTG	QAKGMQ	314	
NTDB id 1259	GCO85	RS10305	WP 010947729.1	TINRIIDVFP	PAEEKSMVRS	MLES	SLQAVVAQ	SLLKK	NKGGRVAALEIMMCTGAIRN	LIREDKIAQMYSSIQTG	QAKGMQ	314	
NTDB id 96481	AS145	RS03415	WP 011707389.1	TIDRIIDVFP	GAEKDMVRS	MLES	SLRAVISQ	TLLKR	IGGGRVAAHEIM	MGIPAVRN	LIREDKIAQLYSVIQTGM	THGMQ	314
NTDB id 1202	PSJM300	01600	AFN76400.1	TIDRVVDVFP	PAEEKSMVRS	MLES	SLQAVISQ	TLLKK	VGGGRVAAHEIM	IGTPAIRN	LIREDKVAQMYSSIQTG	GSLGMQ	314
NTDB id 1194	PA0395	NP 249086.1		TIDRVVDVFP	PAEEKAMVRS	MLES	SLQAVISQ	TLLKK	IGGGRVAAHEIM	IGTPAIRN	LIREDKVAQMYSSAIQTG	GSLGMQ	314
NTDB id 1020	ACIAD	RS04210	WP 011182164.1	TIDRIIDVFP	PAEEKDMVRT	MLES	SLQAVISQ	TLLKK	EGGGRVAAHEIM	IGIPAIRN	LIREGKVAQMYSSIQTG	ATHGMT	314
NTDB id 1081	FDQ49	RS05335	WP 006581387.1	TIDRVVDVFP	PAEEKDMVR	AMLSE	SLQAVISQ	TLLKK	NGGGRVAAHEIM	IGIPAIRN	LIRENKVAQMYSSAIQTG	ANHGMT	314
NTDB id 1060	ABD1	RS04380	WP 000355489.1	TIDRVVDVFP	PAEEKDMVR	AMLSE	SLQAVISQ	TLLKK	NGGGRVAAHEIM	IGIPAIRN	LIRENKVAQMYSSAIQTG	ANHGMT	314
NTDB id 1040	HON27	RS13360	WP 000355489.1	TIDRVVDVFP	PAEEKDMVR	AMLSE	SLQAVISQ	TLLKK	NGGGRVAAHEIM	IGIPAIRN	LIRENKVAQMYSSAIQTG	ANHGMT	314
consensus				***!*****	*****!***!	*****!	!***	***!***!*****	*****!*	*****	*****	*****!*	

logo

NTDB id 1177 A1552VC RS01165 WP 000422572.1	TFDQALYQLVVDKISEQDALHSADSANDLRLMLK.TKRGDDY...GSGSL..QNV.KIDME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIK.LGSETDGEHLTSVS...QGL.TLEMSDDDPGRSFR.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHISYADALKHADSPNNLRLQIK.LSEEANKPLDNRRM..SEM.ERKMTFDGQRRNLK.....	383
NTDB id 1448 BW25113 RS15320 WP 001326494.1	TFQQSYQHRVGEGRLL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLLITYDKGLERAIDPKEFARLANDASAGLGASMTPAAPPVPAYNSASSSSSTGRGGDFGRGAAAPATP	399
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGLIAPEVARRRAQNSEMSF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGLIAPEAARRRAQNSEMSF.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TLDQHLTELNVNKNIIISKHTAHEAALNK.SLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELNVNKNIIISKHTAHEAALNK.SLF.....	344
NTDB id 96481 AS145 RS03415 WP 011707389.1	TMDQSLKQLVSRGVVAALDAKAKAVDP.NTI.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	TLDSCCLKGLLAKGLISRDSAKEKAKQP.ENF.....	344
NTDB id 1194 PA0395 NP 249086.1	TLDMCLKGLVAKGLISRENAREKAKIP.ENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLLAKGIIINLPTARAVAKSP.ESF.....	344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TLDQSLKGLVSRGVISPQTARTAAKQP.ESFL.....	345
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQP.ESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQP.ESFL.....	345
consensus	!*** * ** ***** * *	

logo

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 1448 BW25113 RS15320 WP 001326494.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	AAPAAGRSEPGRAGGFGR	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 96481 AS145 RS03415 WP 011707389.1	.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	344
NTDB id 1194 PA0395 NP 249086.1	.....	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