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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 01088596.1
NTDB id 1185 GTFT74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GCO85 RS10305 WP 010947729.1
NTDB id 22592 MFLA RS10785 WP 011480328.1
NTDB id 1194 PA0395 NP 249086.1
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

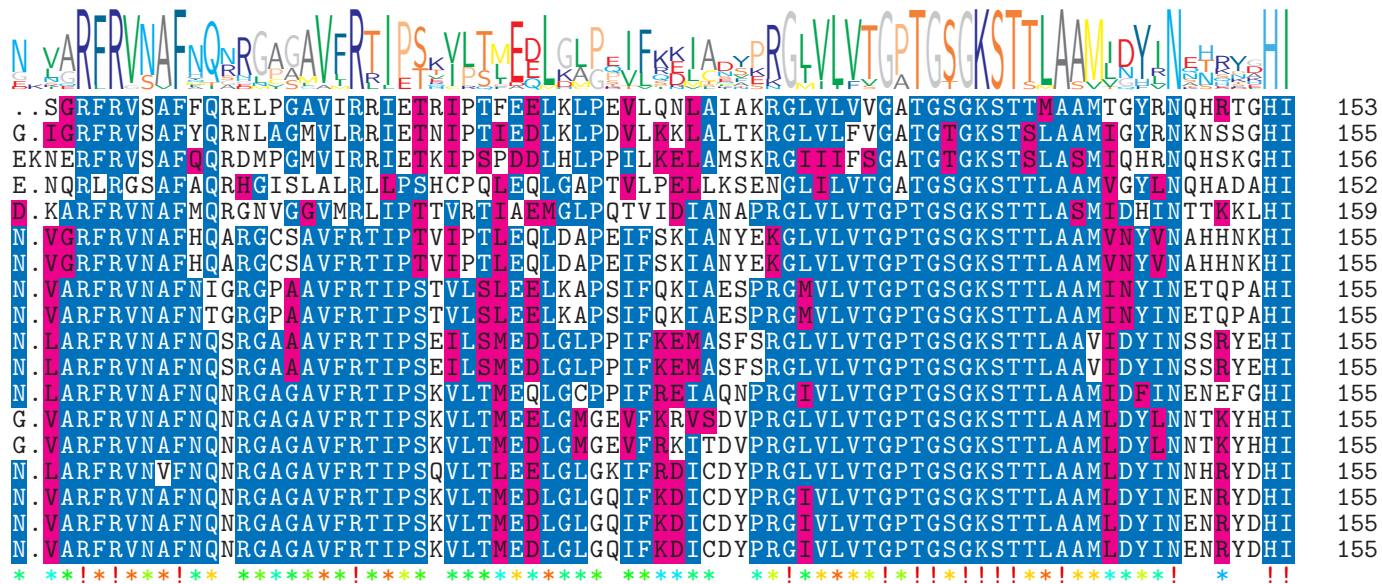
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NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 1448 BW25113 RS15320 WP 001326494.1
NTDB id 1307 DR RS10055 WP 01088596.1
NTDB id 1185 GTFT74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1086 NMV RS00245 WP 002218487.1
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NTDB id 1283 ACE17W RS02630 WP 010947729.1
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NTDB id 1194 PA0395 NP 249086.1
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

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	LTVEDPIEFVHEH	KRCIVTQREVGLDTES	YEVALKNSLRQAPDMILIGEIRSR	RETMEYAMTFAETGHL	CMATLHANNANQ	233	
NTDB id 1203 PSJM300 01605 AFN76401.1	ISIEDPIEFITHQHQC	IVTQREVGIDTDSFEVAL	KNTLRQAPDVILIGEVRTRETMDH	AVAF	AFETGHLCLATLHANNANQ	235	
NTDB id 1019 ACIAD RS04205 WP 004922051.1	ITIEDPIEFIEHAGC	IITQREVGIDTDSFEI	ALKNTLRQAPDVILIGEIRSR	EVMDYALAF	AFETGHLVFAATLHANNANQ	236	
NTDB id 1448 BW25113 RS15320 WP 001326494.1	LTLEDPEVEYLYAS	QRCLIQREITGLH	MTFASGLRAALREDPDVILLGEL	RDS	ETIRLALTA	AETGHLVLAATLHTRGAAQ	232
NTDB id 1307 DR RS10055 WP 010888596.1	LTIEDPIEFMHPNK	ASTINQREVGS	DTLSFDDALRAALRQAPDVILV	GEMRDYETIKA	AVTAAETGHLVMGTLHTNSAPE	239	
NTDB id 1185 GTF74 RS11940 WP 000350195.1	LTIEDPIEFVHSNN	KCLINQREVHRD	THSFKNALRSALREDPDVILV	GELRDQETISL	ALTA	AETGHLVFGTLHTSSAAK	235
NTDB id 1176 A1552VC RS01160 WP 000350195.1	LTIEDPIEFVHSNN	KCLINQREVHRD	THSFKNALRSALREDPDVILV	GELRDQETISL	ALTA	AETGHLVFGTLHTSSAAK	235
NTDB id 1086 NMV RS00245 WP 002218487.1	LTIEDPIEFVHQSKK	SLINQRELHQHT	LSFANALRSALREDPDVILV	GEMRDPETIGL	ALTA	AETGHLVFGTLHTTGA	235
NTDB id 1116 NGFG RS10615 WP 003690200.1	LTIEDPIEFVHQSKK	SLINQRELHQHT	LSFANALSSALREDPDVILV	GEMRDPETIGL	ALTA	AETGHLVFGTLHTTGA	235
NTDB id 1283 ACE17W RS02630 WP 010947729.1	LTVEDPIEFVHQSKK	CLVNQREVHK	DTLSFNAALRSALREDPDILV	GELRDLETIRL	AMTAAETGHLVFGTLHTNSATK	235	
NTDB id 1259 GC085 RS10305 WP 010947729.1	LTVEDPIEFVHQSKK	CLVNQREVHK	DTLSFNAALRSALREDPDILV	GELRDLETIRL	AMTAAETGHLVFGTLHTNSATK	235	
NTDB id 22592 MFLA RS10785 WP 011480328.1	LTVEDPIEFVHTSKK	CLINQREVGPHT	LSFSNALRSALREDPDVILV	GEMRDLETIRL	ALSA	AETGHLVFGTLHTSSAAK	235
NTDB id 1194 PA0395 NP 249086.1	LTIEDPIEFVHESK	KCLVNQREVHR	DTLGFSEALRSALREDPDILV	GEMRDLETIRL	ALTA	AETGHLVFGTLHTTSA	235
NTDB id 1202 PSJM300 01600 AFN76400.1	LTIEDPIEFVHESK	KCLVNQREVHR	DTLGFSEALRSALREDPDILV	GEMRDLETIRL	ALTA	AETGHLVFGTLHTTSA	235
NTDB id 1020 ACIAD RS04210 WP 011182164.1	LTVEDPIEFVHEPK	KCLINQREVHR	DTLGFNEALRSALREDPDILV	GEMRDLETIRL	ALTA	AETGHLVFGTLHTTSA	235
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	LTVEDPIEFVHQSKK	CLINQREVHR	DTHGFNEALRSALREDPDILV	GEMRDLETIRL	ALTA	AETGHLVFGTLHTTSA	235
NTDB id 1060 ABD1 RS04380 WP 000355489.1	LTVEDPIEFVHQSKK	CLINQREVHR	DTHGFNEALRSALREDPDILV	GEMRDLETIRL	ALTA	AETGHLVFGTLHTTSA	235
NTDB id 1040 HON27 RS13360 WP 000355489.1	LTVEDPIEFVHQSKK	CLINQREVHR	DTHGFNEALRSALREDPDILV	GEMRDLETIRL	ALTA	AETGHLVFGTLHTTSA	235
consensus	***!!*!*!*!* *	*****!!*!***** *	*!*****!!*!*****!!*! *	*****!!*!*****!!*!*****!!*!*****!!*!*****!!*!*****!!*!			

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	ALERILHLV	PKEREQ	FLDLS	LSNLK	GVIAQ	QLLR	DKNGK	GRHGV	FVFLN	SPRIAD	LIRRGEL	HELKAT	MARSQEV	GMQ	313				
NTDB id 1203 PSJM300 01605 AFN76401.1	ALDRIIN	FFPAD	RQNV	WMDL	LSNLK	AI	VAQQL	VPTPD	GKRR	AVIEVL	INTPL	AAADL	IRKGEV	HELKGL	MKRSTDL	GMQ	315		
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TLERIIH	FFDADR	HQQIF	MDLS	LSNLK	AVISQ	QLIPT	HDGQ	SRRA	AAVEVL	INTPL	LSDY	IRQGEI	TYKIKEL	MARS	GELGMQ	316		
NTDB id 1448 BW25113 RS15320 WP 001326494.1	AVERLV	DSFPA	QEKD	PVRN	QLAG	SLRAV	LSQK	LEVD	KQEG	RVALFELL	INTPA	VGNL	IREGK	THQLPHV	IQTG	QVGM	311		
NTDB id 1307 DR RS10055 WP 010888596.1	SIDRIV	DVFP	EEQEQE	IRVQL	ANNLV	AVMTQ	QLLPR	ADGQ	GRVL	LAYEILL	ANPAVR	ALIREG	KTFQIT	SVMTG	AREGMV		319		
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TIDRIID	VFP	GS	DKDM	VRS	M	SLSESL	RAVIA	AQKLL	KR	VGGGR	VACHEIM	LATPAIR	NLIRED	KVAQ	MYSSI	IQTGA	AHGMQ	314
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TIDRIID	VFP	GS	DKDM	VRS	M	SLSESL	RAVIA	AQKLL	KR	VGGGR	VACHEIM	LATPAIR	NLIRED	KVAQ	MYSSI	IQTGA	AHGMQ	314
NTDB id 1086 NMV RS00245 WP 002218487.1	TVDRIV	DVFP	PAGEK	EMVRS	M	SLSESL	TAVISQ	NLLK	THDGN	GRVAS	SHEILIAN	PAVRN	LIRENK	ITQINS	VL	QTGQ	ASGMQ		315
NTDB id 1116 NGFG RS10615 WP 003690200.1	TVDRIV	DVFP	PAGEK	EMVRS	M	SLSESL	TAVISQ	NLLK	THDGN	GRVAS	SHEILIAN	PAVRN	LIRENK	ITQINS	VL	QTGQ	ASGMQ		315
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TINRIID	VFP	PAEEKS	MVRS	M	SLSESL	QAV	VAQS	LLK	K	NGGGR	VAALEIM	MCTGAIRN	LIREDK	IAQ	MYSSI	IQTG	QAKGMQ	314
NTDB id 1259 GC085 RS10305 WP 010947729.1	TINRIID	VFP	PAEEKS	MVRS	M	SLSESL	QAV	VAQS	LLK	K	NGGGR	VAALEIM	MCTGAIRN	LIREDK	IAQ	MYSSI	IQTG	QAKGMQ	314
NTDB id 22592 MFLA RS10785 WP 011480328.1	TIDRIV	DVFP	PAEEK	EMVRS	M	SLSESL	RAVISQ	TLCK	TKDEQ	GRVAA	HEIMIG	TPAIRN	LIRENK	IAQ	MYSAI	IQTG	QNVGMQ		315
NTDB id 1194 PA0395 NP 249086.1	TIDRVV	DVFP	PAEEK	AMVRS	M	SLSESL	QSVISQ	TLLK	K	IGGGR	VAAHEIMIG	TPAIRN	LIREDK	KVAQ	MYSAI	IQTG	GS	SLGMQ	314
NTDB id 1202 PSJM300 01600 AFN76400.1	TIDRVV	DVFP	PAEEKS	MVRS	M	SLSESL	QAVISQ	TLLK	K	VGGGR	VAAHEIMIG	TPAIRN	LIREDK	KVAQ	MYSSI	IQTG	GS	SLGMQ	314
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TIDRIID	VFP	PAEEK	DMVRT	M	SLSESL	QAVISQ	TLLK	K	EGGGR	VAAHEIMIG	IPAIRN	LIREGK	V	QAQMYSS	IQTG	ATH	GMT	314
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TIDRV	IDVFP	PAEEK	DMVR	AMLSESL	QAVISQ	TLLK	K	NGGGR	VAAHEIMIG	IPAIRN	LIRENK	V	QAQMYSA	IQTG	ANH	GMT		314
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TIDRV	IDVFP	PAEEK	DMVR	AMLSESL	QAVISQ	TLLK	K	NGGGR	VAAHEIMIG	IPAIRN	LIRENK	V	QAQMYSA	IQTG	ANH	GMT		314
NTDB id 1040 HON27 RS13360 WP 000355489.1	TIDRV	IDVFP	PAEEK	DMVR	AMLSESL	QAVISQ	TLLK	K	NGGGR	VAAHEIMIG	IPAIRN	LIRENK	V	QAQMYSA	IQTG	ANH	GMT		314
consensus	***!	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR.....	381
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NTDB id 1448 BW25113 RS15320 WP 001326494.1	TFQQSYQHRVGEGRLL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLLITYDKGLERAID.PKEF..ARLANDASAGL.GGASMTPAAPPVPAYNSASSSSSTGRGGDFGRGAAA	395
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGIIAPEVARRRAQN.SESM..SF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGIIAPEAARRRAQN.SESM..SF.....	347
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
NTDB id 22592 MFLA RS10785 WP 011480328.1	TLDQNLQDLVRNINISLAEARAKAAN.KDAF..VG.....	347
NTDB id 1194 PA0395 NP 249086.1	TLDMLKGLVAKGLISRENAREKAKI.PENF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	TLDSCCLKGLIAKGLISRDSAKEKAKQ.PENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLLAKGIIINLPTARAVAKS.PESF.....	344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TLDQSLKGLVSRGVISPQTARTA AKQ.PESF..L.....	345
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TLDQSLKGLVARGVISPQTARTA AKQ.PESF..L.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	TLDQSLKGLVARGVISPQTARTA AKQ.PESF..L.....	345
consensus	!*** * ** ***** * *	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	PATPAAPAAGRSEPGRAGGFGR	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	PATPAAPAAGRSEPGRAGGFGR	418
NTDB id 1185 GTF74 RS11940 WP 000350195.1		345
NTDB id 1176 A1552VC RS01160 WP 000350195.1		345
NTDB id 1086 NMV RS00245 WP 002218487.1		347
NTDB id 1116 NGFG RS10615 WP 003690200.1		347
NTDB id 1283 ACE17W RS02630 WP 010947729.1		344
NTDB id 1259 GC085 RS10305 WP 010947729.1		344
NTDB id 22592 MFLA RS10785 WP 011480328.1		347
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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