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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 1307 DR RS10055 WP 010888596.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1116 NVFG 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 377463 FR838 RS14980 WP 002121749.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1

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	M	D	I	T	E	L	A	F	S	V	K	N	G	A	S	D	L	H	S	A	G	V	P	P	M	I	R	V	D	G	E	V	R	R	I	N	L	P	A	L	H	K	D	V	H	R	L	V	Y	D	I	M	N	D	K	Q	R	R	D	Y	E	E	K	L	E	T	D	F	S	F	E	V	P						
MTSG	ME	LN	Q	Y	L	D	G	M	L	T	H	K	A	S	D	L	I	T	T	V	G	A	P	I	L	Y	R	V	D	G	E	L	R	A	Q	G	E	A	L	.	S	V	A	D	V	T	A	L	.	L	H	A	M	M	D	A	R	Q	A	E	F	K	Q	T	R	E	A	N	F	A	V	V	R	D		75			
...	ME	FE	K	L	L	R	L	M	V	E	K	G	S	D	L	F	I	T	A	G	V	P	P	S	M	K	V	N	G	K	I	L	P	V	N	K	T	P	S	P	E	M	T	R	E	T	V	H	G	V	M	N	E	Q	Q	R	R	E	F	T	N	H	E	C	N	F	A	I	S	A	R		76						
...	M	D	F	N	D	L	L	N	L	M	A	K	H	K	A	S	D	L	F	I	T	A	G	V	E	P	S	L	K	I	N	G	E	I	T	P	V	S	K	T	K	L	D	G	M	I	A	Q	L	I	D	S	I	T	T	Q	K	Q	R	Q	E	F	I	E	T	H	E	C	N	F	A	I	L	N	R		76		
MTSG	D	I	T	D	I	L	R	L	A	A	D	K	G	A	S	D	I	L	A	A	G	L	P	Q	F	K	L	S	G	D	Y	A	G	F	E	P	L	S	A	S	D	T	R	K	L	M	Y	S	M	N	N	R	Q	R	I	F	E	E	K	L	E	D	F	S	F	E	L	P		80									
...	M	Q	I	T	D	L	L	A	F	G	A	K	N	K	A	S	D	L	H	L	S	G	I	S	P	M	I	R	V	H	G	D	M	R	R	I	N	L	P	E	M	S	A	E	V	G	N	M	V	T	S	V	M	N	D	H	Q	R	K	I	Y	Q	N	L	E	V	D	F	S	F	E	L	P		76				
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...	M	D	I	A	E	L	L	A	F	S	V	K	N	K	S	S	D	L	H	I	S	A	G	M	P	P	M	I	R																																																		

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NTDB id 1040 HQN27 RS13360 WP 000355489.1

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[illegible]

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	LTVEDPIEFVHHEHRCRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRRETMEYAMTFAETGHLCLMATLHANNANQ	233
NTDB id 1203 PSJM300 01605 AFN76401.1	TSIEDPIEFTHQHQCNCIVTQREVGLDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHANNANQ	235
NTDB id 1019 ACIAD RS04205 WP 004922051.1	ITIEDPIEFIEHAGCIITQREVGLDTDSFEIALKNTLRQAPDVILIGEIRSRREVMYALAFATGHLVFAATLHANNANQ	236
NTDB id 1307 DR RS10055 WP 010888596.1	LTIEDPIEFMHPNPKASIIINQREVGSDTLSFDALRAALRQAPDVILVGMERDYEYETIKAAVTAAETGHLVGMGTLHTNSAPE	239
NTDB id 1086 NMV RS00245 WP 002218487.1	LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGMERDPETIGLALTAATGHLVFGTLHTTGAAG	235
NTDB id 1116 NGFG RS10615 WP 003690200.1	LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGMERDPETIGLALTAATGHLVFGTLHTTGAAG	235
NTDB id 1185 GTF74 RS11940 WP 000350195.1	LTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGLERDQETISLALTAATGHLVFGTLHTSSAAG	235
NTDB id 1176 A1552VC RS01160 WP 000350195.1	LTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGLERDQETISLALTAATGHLVFGTLHTSSAAG	235
NTDB id 1283 ACE17W RS02630 WP 010947729.1	LTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIIILVGLERDLETIRLAMTAAETGHLVFGTLHTNSATK	235
NTDB id 1259 GC085 RS10305 WP 010947729.1	LTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIIILVGLERDLETIRLAMTAAETGHLVFGTLHTNSATK	235
NTDB id 1202 PSJM300 01600 AFN76400.1	LTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
NTDB id 1194 PAKAF RS01995 WP 003084552.1	LTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
NTDB id 1020 ACIAD RS04210 WP 011182164.1	LTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
NTDB id 377463 FR838 RS14980 WP 002121749.1	LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
NTDB id 1060 ABD1 RS04380 WP 000355489.1	LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
NTDB id 1040 HON27 RS13360 WP 000355489.1	LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIIILVGMERDLETIRLALTAATGHLVFGTLHTTSAAG	235
consensus	***!!!!!!* *****!!!!!!* * * !!!!!!!*!!!!!!*! * !!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	TIDRIIDVFPAAEEKMVRMSLSESLQAVISQQLLKKNGGGRVAAHEIMIGTPAIRNLIRENKYQMYSIQGTGAHGMQ	313
NTDB id 1203 PSJM300 01605 AFN76401.1	ALERTIHIVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLINSPRIADLIIRGELHELKATMARSQEVGMQ	315
NTDB id 1019 ACIAD RS04205 WP 004922051.1	ALDRIINFFPADRQNNQVWMDLSLNLKATVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLGMQ	316
NTDB id 1307 DR RS10055 WP 010888596.1	TLERIIHFFDADRHHQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDIYIRGELYKIKELMARSQELGMQ	319
NTDB id 1086 NMV RS00245 WP 002218487.1	SIDRIVDVFPAAEQEQEIRVQLANNLVAVMTQQLLPADAGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGMV	315
NTDB id 1116 NGFG RS10615 WP 003690200.1	TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGGASGMQ	315
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGGASGMQ	315
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TIDRIIDVFPGSDDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQGTGAHGMQ	314
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TIDRIIDVFPGSDDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQGTGAHGMQ	314
NTDB id 1259 GC085 RS10305 WP 010947729.1	TINRIIDVFPAAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSIIQGTGQAKGMQ	314
NTDB id 1202 PSJM300 01600 AFN76400.1	TINRIIDVFPAAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSIIQGTGQAKGMQ	314
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TIDRVVDFVFPAAEEKSMVRSMLSESLQAVISQTLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQGTGSLGMQ	314
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TIDRVVDFVFPAAEEKAMVRSMLSESLQAVISQTLKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQGTGSLGMQ	314
NTDB id 377463 FR838 RS14980 WP 002121749.1	TIDRIIDVFPAAEEKDMVRTMLSESLQAVISQTLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSIIQGTGATHGMT	314
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TIDRVIDVFPAAEEKDMVRAMLSESLQAVISQTLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQGTGANHGMT	314
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TIDRVIDVFPAAEEKDMVRAMLSESLQAVISQTLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQGTGANHGMT	314
NTDB id 1040 HON27 RS13360 WP 000355489.1	TIDRVIDVFPAAEEKDMVRAMLSESLQAVISQTLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQGTGANHGMT	314
consensus	***!***** *****!*****! *****! *****! *****!*****!***** *****!***** *****!*****!*****	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTK.RGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLG.SETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHSYADALKHADSPNNLRQLIKLS.EEANKPLDNRRERMSEMER.....KMTFDGQRRNLK....	383
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAIDPKFARLANDASAGLGG.....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA	394
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGLIAPEAAARRRAQNSESMSF.....	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	TLDQHLTELNVNKNIISKHTAHEAALNK.SLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELNVNKNIISKHTAHEAALNK.SLF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	TLDSCCLKGLIAKGLISRDSAKEKAKQP.ENF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDMCLKGLVAKGLISRAREKAKIP.ENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLIAKGIINLPTARAVAKSP.ESF.....	344
NTDB id 377463 FR838 RS14980 WP 002121749.1	TLDQSLKNLVSRGVISPQTARTAAKQP.ESFL.....	345
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	APATPAAPAAACRSEPCRACCCFGRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1		381
NTDB id 1019 ACIAD RS04205 WP 004922051.1		383
NTDB id 1307 DR RS10055 WP 010888596.1	APATPAAPAAAGRSEPGRAGGFGRR	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
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NTDB id 1040 HON27 RS13360 WP 000355489.1		345
consensus		

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