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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRV	DGELRAQGEAL.SVADVTAL	LHAMA	DDARQA	EFGKQ	TREAN	FAVVRD	75																					
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVN	KTPMSPE	MTRRET	VHGV	MNEQ	QRREF	TENHEC	NAISAR	76																				
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSL	KINGEIT	TPVSK	TCLD	GDMLAQLIDS	ITTQ	KQRQ	EFIET	HECN	FAILNR	76																		
NTDB id 351308 E2636 RS06360 WP 134209456.1	..MRESIDQLLTNAFHQNASDIHITVGV	PPIFRV	QGD	LVKIG	STPIT	DDMSRE	MARAITP	DKLWD	TFL	ELG	ELDYSHVVE	78																		
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDIILAAG	LPPQFKLS	GDYDAQGF	EL	SASD	TRKLMYS	MMNER	QQRIF	E	E	KREL	D	FSF	ALG	80															
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGDMRRINLP	EMSAE	EVGNM	MTSVM	NDHQRKIY	QQN	LE	V	D	F	S	F	ELP	76															
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGDMRRINLP	EMSAE	EVGNM	MTSVM	NDHQRKIY	QQN	LE	V	D	F	S	F	ELP	76															
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRID	GEVRKL	GVPAFT	HS	DVHRL	LIFE	IM	ND	AQRSEY	E	E	K	LE	V	D	F	S	F	ELP	76									
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRID	GEVRKL	GVPAFT	HS	DVHRL	LIFE	IM	ND	AQRSEY	E	E	K	LE	V	D	F	S	F	ELP	76									
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKKNSSDLHISAG	MPPMIRVDGLRKINLP	P	LEH	KDV	IKI	IYD	IM	ND	RQRKE	Y	E	E	F	F	E	T	D	F	S	F	E	I	A	76					
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKKNSSDLHISAG	MPPMIRVDGLRKINLP	P	LEH	KDV	IKI	IYD	IM	ND	RQRKE	Y	E	E	F	F	E	T	D	F	S	F	E	I	A	76					
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSAG	LPPMIRVDGDVRRINLP	P	LEH	KQV	H	ALI	YD	IM	ND	KQRK	D	F	E	E	F	L	E	T	D	F	S	F	E	V	P	76			
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLS	SLPPMIRVDGDVRRINLP	P	AM	DH	KQV	H	ALI	YD	IM	ND	KQRK	D	F	E	E	F	L	E	T	D	F	S	F	E	V	P	76		
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAG	I	PPMIRVDGEVRRINLP	P	AM	DHSEVHN	L	IYD	IM	ND	KQR	R	D	Y	E	E	K	L	E	T	D	F	S	F	E	V	P	76		
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	P	A	L	E	H	KDVHRL	V	YD	IM	ND	KQR	R	D	Y	E	E	K	L	E	T	D	F	S	F	E	V	P	76
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	P	A	L	E	H	KDVHRL	V	YD	IM	ND	KQR	R	D	Y	E	E	K	L	E	T	D	F	S	F	E	V	P	76
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDGEVRRINLP	P	A	L	E	H	KDVHRL	V	YD	IM	ND	KQR	R	D	Y	E	E	K	L	E	T	D	F	S	F	E	V	P	76
consensus	*** **!***** *!*****!*****!***** * * ** ********** *! *****																													

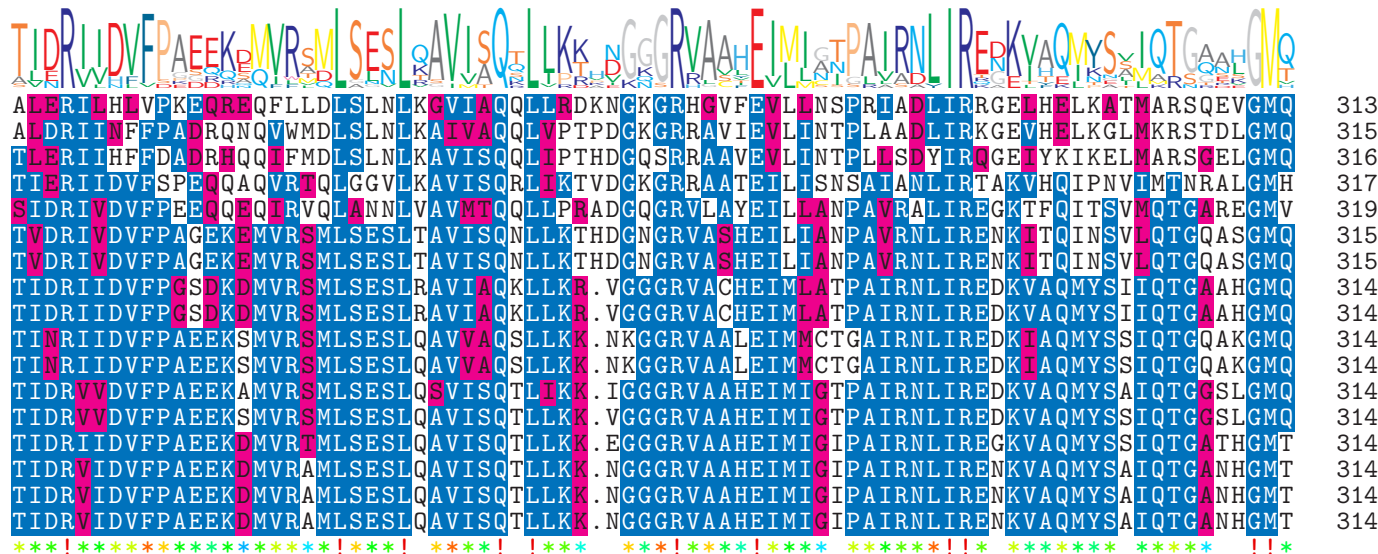
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NTDB id 1177 A1552VC RS01165 WP 000422572.1	NVARFRVNAF	NQNRGAGAVERT	PSYLTLELGLPIFKKIA	RGVLVTGPTGSGKSTTLAAMLYIN	ETRYD	153										
NTDB id 1203 PSJM300 01605 AFN76401.1	GIGRFRVSAFYQRNL	AGMVL	RIETNIPTIED	LKLPDVLKKL	ALT	KRGLV	LVFGATGTGKSTSLAAM	IGYRN	KNSSGHI	155						
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNERFRVSAFYQR	QDMPGM	VIRRIETKIP	SPDDLHL	PPIL	KELAM	SKRGII	IFSGATGTGKSTSLA	SMIQHRN	QHSKGHI	156					
NTDB id 351308 E2636 RS06360 WP 134209456.1	NVARFRVNAFHQK	GKISIA	FR	TIPQI	IPTVD	Q	LKMPNTLKK	LAETKQGLIL	V	TGPTGSGKSTTLAAMIKHM	NTD	LN	LHI	157		
NTDB id 1307 DR RS10055 WP 010888596.1	DKARFRVNAFMQR	GNVGGVM	RLIPTT	VRTIAEM	GLPQT	VIDIANAP	RGLVLVTGPTGSGKSTTLA	SMIDH	INTT	KKLHI	159					
NTDB id 1086 NMV RS00245 WP 002218487.1	NVARFRVNAFNI	GRGPA	AVFRTIP	STVLS	LEELKAPSIF	QKIAES	PRGMVLVTGPTGSGKSTTLA	AMIN	YINET	QPAHI	155					
NTDB id 1116 NGFG RS10615 WP 003690200.1	NVARFRVNAFNT	GRGPA	AVFRTIP	STVLS	LEELKAPSIF	QKIAES	PRGMVLVTGPTGSGKSTTLA	AMIN	YINET	QPAHI	155					
NTDB id 1185 GTF74 RS11940 WP 000350195.1	NVGRFRVNAFHQA	RGC	SAVFRTIPTV	IP	TLEQLDAPEIF	SKIAN	YEKGLVLVTGPTGSGKSTTLA	AMVNYVN	NAHNKHI	155						
NTDB id 1176 A1552VC RS01160 WP 000350195.1	NVGRFRVNAFHQA	RGC	SAVFRTIPTV	IP	TLEQLDAPEIF	SKIAN	YEKGLVLVTGPTGSGKSTTLA	AMVNYVN	NAHNKHI	155						
NTDB id 1283 ACE17W RS02630 WP 010947729.1	NLARFRVNAFNQ	SRGA	AVFRTIP	SEIL	SMEDLGL	PPIFKEMAS	FSRGLVLVTGPTGSGKSTTLA	AAVIDY	INSSRYEHI	155						
NTDB id 1259 GC085 RS10305 WP 010947729.1	NLARFRVNAFNQ	SRGA	AVFRTIP	SEIL	SMEDLGL	PPIFKEMAS	FSRGLVLVTGPTGSGKSTTLA	AAVIDY	INSSRYEHI	155						
NTDB id 1194 PAKAF RS01995 WP 003084552.1	GVARFRVNAFNQ	NRGAGAV	FRTIPSKVLT	MEELG	MGEVFRK	ITD	VPRGLVLVTGPTGSGKSTTLA	AML	DYLN	NNTKYHHI	155					
NTDB id 1202 PSJM300 01600 AFN76400.1	GVARFRVNAFNQ	NRGAGAV	FRTIPSKVLT	MEELG	MGEVFRK	ITD	VPRGLVLVTGPTGSGKSTTLA	AML	DYLN	NNTKYHHI	155					
NTDB id 1020 ACIAD RS04210 WP 01182164.1	NLARFRVNVFNQ	NRGAGAV	FRTIPSKVLT	LEELGL	GKIFR	D	CDYPRGLVLVTGPTGSGKSTTLA	AML	DYINN	HRDYHI	155					
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	NVARFRVNAFNQ	NRGAGAV	FRTIPSKVLT	MEELG	LQIFK	D	ICDYP	RGLVLVTGPTGSGKSTTLA	AML	DYIN	ENRYDHI	155				
NTDB id 1060 ABD1 RS04380 WP 000355489.1	NVARFRVNAFNQ	NRGAGAV	FRTIPSKVLT	MEELG	LQIFK	D	ICDYP	RGLVLVTGPTGSGKSTTLA	AML	DYIN	ENRYDHI	155				
NTDB id 1040 HON27 RS13360 WP 000355489.1	NVARFRVNAFNQ	NRGAGAV	FRTIPSKVLT	MEELG	LQIFK	D	ICDYP	RGLVLVTGPTGSGKSTTLA	AML	DYIN	ENRYDHI	155				
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 351308 E2636 RS06360 WP 134209456.1
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 RS01195 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



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NTDB id 1203 PSJM300 01605 AFN76401.1
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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	TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHI SYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMER.....KMTFDGQRRNLK.....	383
NTDB id 351308 E2636 RS06360 WP 134209456.1	MMATSVKELVESGQISQEMAQPYLEGEH.....	346
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAID.PKEFARLAN..DASAGL.GGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAA	395
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGGLIAPEVARRRAQNSESMSF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGGLIAPEAARRRAQNSESMSF.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TMEQNAKQLIARGVVDQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TMEQNAKQLIARGVVDQEVQSKIELDLKAF.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDMCLKGLVAKGLISRENAREKAKI.PENF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	TLDSCCLKGLLAKGLISRDSAKEKAKQ.PENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLLAKGIINLPTARAVAKS.PESF.....	344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TLDQSLKGLVSRGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
consensus	***** * !* ***** * *	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	PATPAAPAAAGRSEPCRRACCGFRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 351308 E2636 RS06360 WP 134209456.1	.....	346
NTDB id 1307 DR RS10055 WP 010888596.1	PATPAAPAAAGRSEPCRRACCGFRR	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