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NTDB id 1177	A1552VC	RS01165	WP 000422572.1		MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHAMMDARQA	EFGKQ	TREANFAVVRD	75							
NTDB id 1203	PSJM300	01605	AFN76401.1	....	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVN	KTPMSPEMTRET	VHGVMMNEQQR	REFTENHECNFAISAR	76							
NTDB id 1019	ACIAD	RS04205	WP 004922051.1	....	MDFNDLLNLMAKHKASDLFITAGV	EPSLKINGEITPVSKTK	LGDGMTIAQLIDS	ITTQKQRQEF	ETHECNFAILNR	76							
NTDB id 1307	DR	RS10055	WP 010888596.1	MTSGIDITDILRLAADKGASDIILAAGL	PPQFKLSGDYDAQGFELPSASDTRK	LMYSMMNERQQR	IFEEKRELD	DFSFALG	80								
NTDB id 54341	BN112	RS13665	WP 003808265.1	....	MTIDELLALTIVARGASDLHLSAGL	PPMLRINGDVVRQDVAAALTPDAL	RAMIHLQMPAQ	REEYETRQEL	DFSIDVE	76							
NTDB id 1086	NMV	RS00245	WP 002218487.1	....	MQITDLLAFGAKNKAASDLHLSSG	ISPMIRVHGDMMRIN	LPMSAE	EVGNMVT	VMNDHQRKIYQQNLEVD	FSFELP	76						
NTDB id 1116	NGFG	RS10615	WP 003690200.1	....	MQITDLLAFGAKNKAASDLHLSSG	ISPMIRVHGDMMRIN	LPMSAE	EVGNMVT	VMNDHQRKIYQQNLEVD	FSFELP	76						
NTDB id 1185	GTF74	RS11940	WP 000350195.1	....	MDIAELLEFSVKHNASDLHLSAGV	PPMVRIDG	EVRLKGVPAFTHSDVHRL	LIFEIMNDAQRSE	EYEEKLEVD	FSFELP	76						
NTDB id 1176	A1552VC	RS01160	WP 000350195.1	....	MDIAELLEFSVKHNASDLHLSAGV	PPMVRIDG	EVRLKGVPAFTHSDVHRL	LIFEIMNDAQRSE	EYEEKLEVD	FSFELP	76						
NTDB id 1283	ACE17W	RS02630	WP 010947729.1	....	MDIAELLAFSVKNKSSDLHISAGM	PPMIRVDGLRKIN	LPPL	LEHKDVIKI	IYD	IMNDRQRKE	EYEEFFET	DFSFEIA	76				
NTDB id 1259	GCO85	RS10305	WP 010947729.1	....	MDIAELLAFSVKNKSSDLHISAGM	PPMIRVDGLRKIN	LPPL	LEHKDVIKI	IYD	IMNDRQRKE	EYEEFFET	DFSFEIA	76				
NTDB id 1202	PSJM300	01600	AFN76400.1	....	MDITELLAFSAKQGGASDLHLSSGL	PPMIRVDGDVRRIN	LPAMD	HKQVHALIYD	IMNDKQRKD	FEFFLET	DFSFEVP	76					
NTDB id 1194	PAKAF	RS01995	WP 003084552.1	....	MDITELLAFSAKQGGASDLHLSSGL	PPMIRVDGDVRRIN	LPAMD	HKQVHALIYD	IMNDKQRKD	FEFFLET	DFSFEVP	76					
NTDB id 1020	ACIAD	RS04210	WP 01182164.1	....	MDITELLAFSVQNRASDLHLSAGI	PPMIRVDGEVRRIN	LPAMD	HSEVHNLIYD	IMNDKQR	RDYEEKLET	DFSFEVP	76					
NTDB id 1081	FDQ49	RS05335	WP 006581387.1	....	MDITELLAFSVKNKASDLHLSAGM	PPMIRVDGEVRRIN	LPAL	EHKDVHRL	VYD	IMNDKQR	RDYEEKLET	DFSFEVP	76				
NTDB id 1060	ABD1	RS04380	WP 000355489.1	....	MDITELLAFSVKNKASDLHLSAGM	PPMIRVDGEVRRIN	LPAL	EHKDVHRL	VYD	IMNDKQR	RDYEEKLET	DFSFEVP	76				
NTDB id 1040	HON27	RS13360	WP 000355489.1		MDITELLAFSVKNKASDLHLSAGM	PPMIRVDGEVRRIN	LPAL	EHKDVHRL	VYD	IMNDKQR	RDYEEKLET	DFSFEVP	76				
consensus				***	***!*****	*!*****!	*****!	*****	*	*	***	*****	*****	***	*****	***!*****	***

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NTDB id 1177	A1552VC	RS01165	WP 000422572.1	..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAI	AKRGLVLVVGATGSGKSTTMAAMTGYRNQHRTGHI	153											
NTDB id 1203	PSJM300	01605	AFN76401.1	G.TGRFRVSAFYQRNLAGMVLRRRIETNIPTIEDLKL	PDVLKKLALTKRGLVLFVGATGTGKSTSLAAMI	GYRNKNSSGHI	155										
NTDB id 1019	ACIAD	RS04205	WP 004922051.1	EKNERFRVSAFYQRDMPGVMVRIETKIPSPDDLH	LPLILKELAMSKRGIIIFSGATGTGKSTSLASMI	QHRNQHSGKHI	156										
NTDB id 1307	DR	RS10055	WP 010888596.1	D.KARFRVNAFMQRGNVGGVIRRIIPTTVRTIAEMGLP	QTVIDIANAPRGLVLVTGPTGSGKSTTLASMI	DHINTTKLHI	159										
NTDB id 54341	BN112	RS13665	WP 003808265.1	G.LARFRVNAFNQQRGPAAVLRTIPSAIRTLDELGCP	ASFKELVLRQPQGLILVTGPTGSGKSTTLAAMI	DHLNREGEHHI	155										
NTDB id 1086	NMV	RS00245	WP 002218487.1	N.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAP	SIFQKIAESPRGMVLVTGPTGSGKSTTLAAMIN	YINETQPAHI	155										
NTDB id 1116	NGFG	RS10615	WP 003690200.1	N.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAP	SIFQKIAESPRGMVLVTGPTGSGKSTTLAAMIN	YINETQPAHI	155										
NTDB id 1185	GTF74	RS11940	WP 000350195.1	N.VGRFRVNAFHQARGCSAVFRTIPTVPTLEQLDAPE	IFSKIANYEKGLVLVTGPTGSGKSTTLAAMV	NYVNAHNNKHI	155										
NTDB id 1176	A1552VC	RS01160	WP 000350195.1	N.VGRFRVNAFHQARGCSAVFRTIPTVPTLEQLDAPE	IFSKIANYEKGLVLVTGPTGSGKSTTLAAMV	NYVNAHNNKHI	155										
NTDB id 1283	ACE17W	RS02630	WP 010947729.1	N.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGL	PPIFKEMASFSRGLVLVTGPTGSGKSTTLAAV	IDYINSSRYEHI	155										
NTDB id 1259	GCO85	RS10305	WP 010947729.1	N.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGL	PPIFKEMASFSRGLVLVTGPTGSGKSTTLAAV	IDYINSSRYEHI	155										
NTDB id 1202	PSJM300	01600	AFN76400.1	G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGM	GEVFRKITDVPRLGLVLVTGPTGSGKSTTLAAM	LDYLNNTKYHHI	155										
NTDB id 1194	PAKAF	RS01995	WP 003084552.1	G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGM	GEVFRKIVSDVPRGLVLVTGPTGSGKSTTLAAM	LDYLNNTKYHHI	155										
NTDB id 1020	ACIAD	RS04210	WP 01182164.1	N.LARFRVNVFNQNRGAGAVFRTIPSKVLTLEELGL	GKIFRDI	ICDYPRGLVLVTGPTGSGKSTTLAAMLDYINN	HRDYHI	155									
NTDB id 1081	FDQ49	RS05335	WP 006581387.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGL	GQIFKDI	ICDYPRGIVLVTGPTGSGKSTTLAAMLDYINEN	RYDHI	155									
NTDB id 1060	ABD1	RS04380	WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGL	GQIFKDI	ICDYPRGIVLVTGPTGSGKSTTLAAMLDYINEN	RYDHI	155									
NTDB id 1040	HON27	RS13360	WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGL	GQIFKDI	ICDYPRGIVLVTGPTGSGKSTTLAAMLDYINEN	RYDHI	155									
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 1307 DR RS10055 WP 01088596.1
NTDB id 54341 BN112 RS13665 WP 003808265.1
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 1202 PSJM300 01600 AFN76400.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
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	TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHSYADALKHADSPNNLRLQIKLSEEANKPLDNRRERMSEMER.....KMTFDGQRRNLK.....	383
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLLITYDKGLERAIDPKEFARLANDASAGL....GGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAA	395
NTDB id 54341 BN112 RS13665 WP 003808265.1	TLDQALQDLRKKLISAEQALAYARDRRSLGL.....	346
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	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TLDQHLTELNVNKNISKHTAHEAALNK.SLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELNVNKNISKHTAHEAALNK.SLF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	TLDSCCLKGLLAKGLISRDSAKEKAKQP.ENF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDMLKGLVAKGLISRENAREKAKIP.ENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLLAKGIINLPTARAVAKSP.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	!*** * !* ***** * *	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	PATPAAPAAAGRSEPCRRACCFGR	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	PATPAAPAAAGRSEPCRRACCFGR	418
NTDB id 54341 BN112 RS13665 WP 003808265.1	.....	346
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 1202 PSJM300 01600 AFN76400.1	.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	.....	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