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NTDB id 1313 DR RS12030 WP 010888966.1	IYGPESGGKTTI	ALAIV	AQAQKAGGTC	AFIDA	AEHALDP	VYARAL	GVNTDELL	VSQPDN	GEQALEI	ME	LLV	RSGAID	VVVV	155													
NTDB id 600 KW2 RS01765 WP 011675413.1	IYGPESGGKTTV	ALHAVA	AAVQKKEG	IAAFIDA	ENALDPEY	AKALGVN	TDELLS	SQPDYGEQ	GLQIAE	KLIT	TSGAVD	LVVT	157														
NTDB id 269 KZH43 RS08665 WP 001085462.1	IYGPESGGKTTV	ALHAVA	AQAQKKEG	IAAFIDA	EAHALDP	AYAAAL	GVNIDELL	LSQPDS	GEQGLEI	AGKL	IDSGAVD	LVVV	156														
NTDB id 228 SPD RS09265 WP 001085462.1	IYGPESGGKTTV	ALHAVA	AQAQKKEG	IAAFIDA	EAHALDP	AYAAAL	GVNIDELL	LSQPDS	GEQGLEI	AGKL	IDSGAVD	LVVV	156														
NTDB id 194 SPR RS08825 WP 001085462.1	IYGPESGGKTTV	ALHAVA	AQAQKKEG	IAAFIDA	EAHALDP	AYAAAL	GVNIDELL	LSQPDS	GEQGLEI	AGKL	IDSGAVD	LVVV	156														
NTDB id 159 SP RS09750 WP 001085462.1	IYGPESGGKTTV	ALHAVA	AQAQKKEG	IAAFIDA	EAHALDP	AYAAAL	GVNIDELL	LSQPDS	GEQGLEI	AGKL	IDSGAVD	LVVV	156														
NTDB id 499 SM12261 RS08315 WP 078228268.1	IYGPESGGKTTV	ALHAVA	AQAQKKEG	IAAFIDA	EAHALDP	AYAAAL	GVNIDELL	LSQPDS	GEQGLEI	AGKL	IDSGAVD	LVVV	156														
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IYGPESGGKTTV	ALHAVA	AQAQKKEG	IAAFIDA	EAHALDP	AYAAAL	GVNIDELL	LSQPDS	GEQGLEI	AGKL	IDSGAVD	LVVV	156														
NTDB id 453 Spy49 1753c ACI62003.1	IYGPESGGKTTV	ALHAVA	AQAQKKEG	IAAFIDA	EAHALDP	AYAAAL	GVNIDELL	LSQPDS	GEQGLEI	AGKL	IDSGAVD	LVVV	156														
NTDB id 408 SMU RS09530 WP 002262392.1	IYGPESGGKTTV	ALHAVA	AQAQKDG	GIAAFIDA	EAHALDP	AYAAAL	GVNIDELL	LSQPDS	GEQGLEI	AGKL	IDSGAVD	LVVV	156														
NTDB id 115 BSU 16940 NP 389576.2	YIYGPESGGKTT	ALHAI	AEVQQQ	GGQA	AFIDA	EAHALDP	VYAKL	GVNIE	ELL	SQPD	TGEQALEI	AEAL	VRS	GAVD	IVVV	141											
NTDB id 625 LCA RS02525 WP 011374196.1	IYGPESGGKTTV	ALHAVA	AEVQK	GGTA	YIDA	ENAM	DPKY	ATAL	GVNID	DL	LSQPD	TGEQ	GLEI	ADAL	V	SSGAVD	ILVV	143									
NTDB id 1245 Cj1673c YP 002345041.1	IYGPESGGKTTL	TLHI	IAEC	QKAGG	VCAFIDA	EAHALD	VKYAKN	LGVNTD	DL	VSQPD	FGEQALEI	VE	T	ARS	GAVD	LIVV	142										
NTDB id 1211 C694 RS00795 WP 000963128.1	IYGPESGGKTTL	SLHI	IAEC	QKNGG	VCAFIDA	EAHALD	VHYAKR	LGVDT	EN	LLVSQPD	TGEQALEI	LE	T	ITR	SG	IDL	LVVV	144									
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IYGPESGGKTTL	SLHI	IAEC	QKNGG	VCAFIDA	EAHALD	VHYAKR	LGVDT	EN	LLVSQPD	TGEQALEI	LE	T	ITR	SG	IDL	LVVV	144									
NTDB id 1334 RAOC RS04870 WP 004918236.1	IYGPESGGKTTL	TLHA	IAEA	QKVG	GTA	AFIDA	EAHAF	DMHY	AEK	LGIN	LEEL	IVS	QPDN	GEQALEI	AD	SL	TR	SG	VD	IVVV	151						
NTDB id 372763 FNV59 RS38425 WP 060897132.1	YIYGPESGGKTT	TLHAV	ANAQK	AGGQ	VAFV	DAE	HALDPEY	AKK	LGVD	ID	NLIL	SQPDN	GEQALEI	VD	M	L	V	R	S	G	A	D	L	I	V	I	143
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IYGPESGGKTTL	TLSL	IAQA	QKGN	KTC	AFIDA	EAHALD	PVYARN	LGVNTD	ELL	SQPDN	GEQALEI	CD	AL	V	R	S	G	A	V	D	V	I	I	V	159	
NTDB id 1130 NGFG RS03960 WP 003688695.1	IFGPESGGKTTL	CLEA	VQC	QKNGG	VCAFV	DAE	HAFDP	PVYARK	LGVK	VEE	LYLSQPD	TGEQALEI	CD	TL	V	R	S	G	I	D	M	V	V	V	143		
NTDB id 1124 NGFG RS03960 WP 003688695.1	IFGPESGGKTTL	CLEA	VQC	QKNGG	VCAFV	DAE	HAFDP	PVYARK	LGVK	VEE	LYLSQPD	TGEQALEI	CD	TL	V	R	S	G	I	D	M	V	V	V	143		
NTDB id 1123 OK783 RS03845 WP 003688695.1	IFGPESGGKTTL	CLEA	VQC	QKNGG	VCAFV	DAE	HAFDP	PVYARK	LGVK	VEE	LYLSQPD	TGEQALEI	CD	TL	V	R	S	G	I	D	M	V	V	V	143		
NTDB id 1427 RS RS02760 WP 011000510.1	IYGPESGGKTTL	TLQV	V	AEM	KLGG	TCAFIDA	EAHALD	VTYAD	KLGVK	VP	DL	LSQPD	TGEQALEI	AD	AL	V	R	S	G	S	V	D	L	I	V	I	151
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IFGPESGGKTTL	TLEL	IAAA	QREG	KTC	AFIDA	EAHALD	PVYAKK	LGVNID	ELL	VSQPD	TGEQALEI	CD	AL	AR	S	G	A	V	D	V	I	V	142			
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IFGPESGGKTTL	TLEL	IAAA	QREG	KTC	AFIDA	EAHALD	PVYAKK	LGVNID	ELL	VSQPD	TGEQALEI	CD	AL	AR	S	G	A	V	D	V	I	V	142			
NTDB id 1205 PSJM300 05545 AFN77183.1	IYGPESGGKTTL	TL	SVIA	AAQR	MG	STCAFV	DAE	HALDP	DYAG	KLGVN	VD	LLVSQPD	TGEQALEI	TD	M	L	V	R	S	NA	V	D	V	I	V	142	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IYGPESGGKTTM	LQAI	AQC	QKAG	GTC	AFIDA	EAHALD	PQYARK	LGV	DID	NLLVSQPD	HGEQALEI	AD	M	L	V	R	S	G	A	D	L	I	V	142		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IYGPESGGKTTM	LQAI	AQC	QKSG	GTC	AFIDA	EAHALD	PQYARK	LGV	DID	NLLVSQPD	NGEQALEI	AD	M	L	V	R	S	G	A	D	L	I	V	142		
consensus	**!!!!*!!!!*	!	**!	!* **	!****!*!*!*	!!	!!*****!*****!	!!*!*!*!*!	*	*****!*****!	*****																

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NTDB id 1313 DR RS12030 WP 010888966.1	IGQGGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAA.....PEAAEA.....	363
NTDB id 600 KW2 RS01765 WP 011675413.1	IGQGAEKAKNYLKEHQDVDFEIDHKVRAAHGLDDSEVAETEETETASKTKA.KAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 159 SP RS09750 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGSENAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIEIE	383
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGSENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAS....KKDE....VAQVDS..VNEEVTLDLGDELEIEIE	383
NTDB id 453 Spy49 1753c ACI62003.1	IGQGSENAKRYLADHPQLFDEIDRKVVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEIED.	378
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED.	383
NTDB id 115 BSU 16940 NP 389576.2	LGQGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEEETQEEL.EF.E.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGGRENAKNYLADHEDVEDEVRLKVRAAYSIDVPEEDLPTTEDE.QI.NI.LPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	LGQGGRENSKAFLEKENPEIADEITKAIQNSMGI EGMISGSED..DEGEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQGGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPD..EPLEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPD..EPLEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	LGQGRDITVKELIKDNPELAELEAKIREKLQAK.....	343
NTDB id 372763 FNV59 RS38425 WP 060897132.1	LGQGGKENARNFLKDNPDLANEIEKKILEKLGIVGVRPTEPTA..EPGADA AVSTASDEAAK....TVPAPAAKATKSKAA	370
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDESDVEEFSEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITEGT.....QDET DGERPEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITEGT.....QDET DGERPEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITEGT.....QDET DGERPEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGRDNCREFLRENAELAREIENKVRHGLVTPMGAV.TLAEEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQGGKANACKYLLKENPEIAKTLDKKLREMLLNPNMQLIAETSSAADDVEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQGGKANACKYLLKENPEIAKTLDKKLREMLLNPNMQLIAETSSAADDVEFGAVPEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGGKANAAYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADADI.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTA.A.HDETEE EPDLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I.EDEE EPDLL..LES.....	349
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NTDB id 1313 DR RS12030 WP 010888966.1	363
NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E...	388
NTDB id 228 SPD RS09265 WP 001085462.1	E...	388
NTDB id 194 SPR RS08825 WP 001085462.1	E...	388
NTDB id 159 SP RS09750 WP 001085462.1	E...	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E...	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E...	384
NTDB id 453 Spy49 1753c ACI62003.1	.....	378
NTDB id 408 SMU RS09530 WP 002262392.1	.....	383
NTDB id 115 BSU 16940 NP 389576.2	.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	.....	355
NTDB id 1245 Cj1673c YP 002345041.1	.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....	343
NTDB id 372763 FNV59 RS38425 WP 060897132.1	AAKS	374
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....	349

consensus

 non conserved
 similar
 ≥ 50% conserved