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NTDB id 1245	Cj1673c	YP	002345041.1	RLDVRK...L.KQNEPIGNRVKVVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKDK	296	
NTDB id 1211	C694	RS00795	WP	000963128.1	RLDIRRIAS...L.KQNEQHIGNRAKAKVVVKNKVAPPFRQAEFDIMFGEGLSKEGETIDYGVKLDIVDKSGAWLSYQDK	298
NTDB id 1214	NCTC11637	00359	SQJ03206.1	RLDIRRIAA...L.KQNEQHIGNRAKAKVVVKNKVAPPFRQAEFDIMFGEGLSKEGETIDYGVKLDIVDKSGAWLSYQDK	298	
NTDB id 1334	RA0C	RS04870	WP	004918236.1	RLDIRSLSDTGKIKDKSGEVIGNRTKVVVKNKVAPPFKSAEFDIMYGEGLVSKVGEILDVATDLDIQKSGSWSFSYQDT	309
NTDB id 1389	A4U84	RS07560	WP	021112712.1	RLDIRRCGV...V.KDGEIIGSETKVVVKNKVAPPFRVQFDIMYGEGLSRMNELILAEANGFIKKSAGWFSYDGT	312
NTDB id 1130	NGFG	RS03960	WP	003688695.1	RLDIRRTGS...I.KKGEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGLSWEGELIDIGVKNDIINKSGAWYSYNGA	296
NTDB id 1124	NGFG	RS03960	WP	003688695.1	RLDIRRTGS...I.KKGEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGLSWEGELIDIGVKNDIINKSGAWYSYNGA	296
NTDB id 1123	OK783	RS03845	WP	003688695.1	RLDIRRTGS...I.KKGEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGLSWEGELIDIGVKNDIINKSGAWYSYNGA	296
NTDB id 1427	RS	RS02760	WP	011000510.1	RLDIRRIGS...I.KKGEVLGNETKVVVKNKVAPPFRQAEFDILYAGVSRGEETIDLGVEAKVVEKSGAWYSYNGE	304
NTDB id 1165	A1552VC	RS01565	WP	000344154.1	RLDIRRTGA...I.KEGEVLGNETRIKVVKNKIAAPPKEANTQIMYGGFNREGELIDLGVKHKMVEKSGAWYSYNGD	295
NTDB id 1142	GTF74	RS11550	WP	000344154.1	RLDIRRTGA...I.KEGEVLGNETRIKVVKNKIAAPPKEANTQIMYGGFNREGELIDLGVKHKMVEKSGAWYSYNGD	295
NTDB id 1022	ACIAD	RS06390	WP	004925639.1	RLDIRRIGQ...V.KEGDEIIGSETKVVVKNKMAPPFRQAEFQILYKGVNQLGELVDLAVQQNIVQKAGAWYSYQGN	295
NTDB id 1074	ABD1	RS10195	WP	000344167.1	RLDIRRIGQ...V.KEGDEIIGSETKVVVKNKMAPPFRQAEFQILYKGVNQLGELVDLAVQQDIVQKAGAWYSYQGN	295
NTDB id 1205	PSJM300	05545	AFN77183.1	RLDIRRTGA...V.KEGDEVVGSSETRVVVKNKVAPPFRQAEFQILYKGVNQLGELVDLAVQQGLVEKSGAWYAYKGS	295	
NTDB id 1313	DR	RS12030	WP	010888966.1	RLDVRKIGQPTKVG...NDAVANTVKKIKTVKNKVAAPPKEVELALVYKGVDFDQLSDLVGLAADMIIKKAGSFSYSGDE	309
NTDB id 115	BSU	16940	NP	389576.2	RLEVRRAEQLKQGN...DVMGNKTKIKVVKNKVAPPFRQAEVDIMYGEGLSKEGETIDLGTELDIQKSGSWYSYEEE	294
NTDB id 40154	HMPREF9243	RS06535	WP	013669682.1	RLEVRREGERIKSGQ...DIIGNRTKIKVVKNKVAPPFRQAEVDIMYGGISQAGELVDLAADMIIKKSGSWYSYGDD	299
NTDB id 625	LCA	RS02525	WP	011374196.1	RLEVRRAETIKNGT...DMIGNRARIKVVKNKVAPPFRQAEVDIMYGGISRTGELVDMAVEKDIINKSGSWYSYGSE	296
NTDB id 600	KW2	RS01765	WP	011675413.1	RLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFRQAEVDIMFGEGLSSTGELLNIAVEEIGIKKSAGWFAYNDE	314
NTDB id 269	KZH43	RS08665	WP	001085462.1	RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFRQAEVVEIMYGEGLSRTGELLKIASDLIIKKAGAWYSYKDE	313
NTDB id 228	SPD	RS09265	WP	001085462.1	RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFRQAEVVEIMYGEGLSRTGELLKIASDLIIKKAGAWYSYKDE	313
NTDB id 194	SPR	RS08825	WP	001085462.1	RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFRQAEVVEIMYGEGLSRTGELLKIASDLIIKKAGAWYSYKDE	313
NTDB id 159	SP	RS09750	WP	001085462.1	RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFRQAEVVEIMYGEGLSRTGELLKIASDLIIKKAGAWYSYKDE	313
NTDB id 527	SMSK321	RS11065	WP	001085454.1	RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFRQAEVVEIMYGEGLSRTGELLKIASDLIIKKAGAWYSYKDE	313
NTDB id 499	SM12261	RS08315	WP	078228268.1	RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFRQAEVVEIMYGEGLSRTGELLKIASDLIIKKAGAWYSYKDE	313
NTDB id 408	SMU	RS09530	WP	002262392.1	RLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFRQAEVVEITYGEGLSRTGELVKIASDLGIIQKAGAWYSYNGE	313
NTDB id 453	Spy49	1753c	ACI62003.1	RLDVRGTTQIKGTG.DQKDSNIGKETKIKVVKNKVAPPFRQAEVVEITYGEGLSRTGELVKIASDLIIQKAGAWFSYNGE	313	
consensus				!***!* * * * * !**!!*!*!*!* * * * * !*!*** * * * * * * * * * ! !**!*!		

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NTDB id 1245	Cj1673c	YP 002345041.1	KLGGGRENKAFLENPEIADETKATQNSMGI EGMISGSEDD..EGEE.....	343
NTDB id 1211	C694	RS00795 WP 000963128.1	KLGGGRENAKALKKEDKALADEITLTKIKESIGSNEEIMPLPDE..PLEEME.....	347
NTDB id 1214	NCTC11637	00359 SQJ03206.1	KLGGGRENAKALKKEDKALADEITLTKIKESIGSNEEIMPLPDE..PLEEME.....	347
NTDB id 1334	RAOC	RS04870 WP 004918236.1	KLGGGRDITVKELIKDNPELAELEAKIREKLQAK.....	343
NTDB id 1389	A4U84	RS07560 WP 021112712.1	KIGQQKNNNAVKWLENPEIADKLEQEI RNTLASNPNSVLKATASDSNDES DVEEFSE.....EEL.....	372
NTDB id 1130	NGFG	RS03960 WP 003688695.1	KIGQQKDNVVRVWLENPEISDEIDAKIRALNGVEMHITEGTQDET DGER.....PE.....E.....	348
NTDB id 1124	NGFG	RS03960 WP 003688695.1	KIGQQKDNVVRVWLENPEISDEIDAKIRALNGVEMHITEGTQDET DGER.....PE.....E.....	348
NTDB id 1123	OK783	RS03845 WP 003688695.1	KIGQQKDNVVRVWLENPEISDEIDAKIRALNGVEMHITEGTQDET DGER.....PE.....E.....	348
NTDB id 1427	RS	RS02760 WP 011000510.1	RIGQGRDNCREFLRNVELAREIENKVRHLGVTPMGAVTLA.EEVEED.....	352
NTDB id 1165	A1552VC	RS01565 WP 000344154.1	KIGQQKANACKYLENPEIAKTLDKKLREMLLNPNEMQLIAETSSAAD DVEFGAVPE.....EF.....	354
NTDB id 1142	GTF74	RS11550 WP 000344154.1	KIGQQKANACKYLENPEIAKTLDKKLREMLLNPNEMQLIAETSSAAD DVEFGAVPE.....EF.....	354
NTDB id 1022	ACIAD	RS06390 WP 004925639.1	KIGQQKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEE EPDLL..ES.....	349
NTDB id 1074	ABD1	RS10195 WP 000344167.1	KIGQQKNNVIRYFENNQIAEIEIERNIREQLLTTGTNGAVQ.I.EDEE EPDLL..LE.....S.....	349
NTDB id 1205	PSJM300	05545 AFN77183.1	KIGQQKANAAKYLENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADADI.....	347
NTDB id 1313	DR	RS12030 WP 010888966.1	RIGQQKEKTIAIYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAP.....EAAEA.....	363
NTDB id 115	BSU	16940 NP 389576.2	RLGGGRENAKQFLKENKDIMLMIQEIQREHYGLDNNGVVQQQAETQE EEFEE.....	348
NTDB id 40154	HMPREF9243	RS06535 WP 013669682.1	RIGQGRENAKLYLTENPDIKFKIDSKVRAEYGF GPAVEDDDSEDETTNEAKNDSSSDE.....ENETLDFNDDEE...	371
NTDB id 625	LCA	RS02525 WP 011374196.1	RIGQGRENAKKNYLADHEDVEDEVRLKVR AAYGISDVPEEDLPTTEDEQINILPDDSTEE.....	355
NTDB id 600	KW2	RS01765 WP 011675413.1	KIGQGAEKAKKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEET TASTKAKAKKKEEKAVETEIEIELED.....	387
NTDB id 269	KZH43	RS08665 WP 001085462.1	KIGQQSENAKKYLAEHPEIFDEIDKQVRSK FGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 228	SPD	RS09265 WP 001085462.1	KIGQQSENAKKYLAEHPEIFDEIDKQVRSK FGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 194	SPR	RS08825 WP 001085462.1	KIGQQSENAKKYLAEHPEIFDEIDKQVRSK FGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 159	SP	RS09750 WP 001085462.1	KIGQQSENAKKYLAEHPEIFDEIDKQVRSK FGLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 527	SMSK321	RS11065 WP 001085454.1	KIGQQSENAKKYLADNPEVFAEIDHQVVRVQ FGLIDGEEAAE...SKKDE...VAQVDS..VNEEVTLDLGDLEIEIE	383
NTDB id 499	SM12261	RS08315 WP 078228268.1	KIGQQSENAKKYLADNPEIFDEIDHQVVRVQ FGLIDGEEIAE...SKKDE...AAQVDS..VNEEVTLDLGDLEIEIE	383
NTDB id 408	SMU	RS09530 WP 002262392.1	KIGQQSENAKKFLADNPEIFDDIDHKVVRVQ YGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED.	383
NTDB id 453	Spy49	1753c ACI62003.1	KIGQQSENAKRYLADHPQLFDEIDRKVVRV KFGLEESEESAMAVASE.....E.....TDDLALDLNGIEIED.	378
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	E	
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 RA0C RS04870 WP 004918236.1	.	343
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 1022 ACIAD RS06390 WP 004925639.1	.	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.	349
NTDB id 1205 PSJM300 05545 AFN77183.1	.	347
NTDB id 1313 DR RS12030 WP 010888966.1	.	363
NTDB id 115 BSU 16940 NP 389576.2	.	348
NTDB id 40154 HMPREF9243 RS06535 WP 013669682.1	.	371
NTDB id 625 LCA RS02525 WP 011374196.1	.	355
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 527 SMSK321 RS11065 WP 001085454.1	E	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	384
NTDB id 408 SMU RS09530 WP 002262392.1	.	383
NTDB id 453 Spy49 1753c ACI62003.1	.	378

consensus

 non conserved
 similar
 ≥ 50% conserved