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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTKI	GKIKTKVVKVKNKVAPPFKEA	LVDFIMFEGEGISSTGELLNIA	VEEGTIKKSGAWFAYN	312							
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETKIKVVKVKNKVAPPF	KEAVVEIMYEGEGISKTGELL	KIASDLDIKKAGAWYSYK	311							
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETKIKVVKVKNKVAPPF	KEAVVEIMYEGEGISKTGELL	KIASDLDIKKAGAWYSYK	311							
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETKIKVVKVKNKVAPPF	KEAVVEIMYEGEGISKTGELL	KIASDLDIKKAGAWYSYK	311							
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETKIKVVKVKNKVAPPF	KEAVVEIMYEGEGISKTGELL	KIASDLDIKKAGAWYSYK	311							
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETKIKVVKVKNKVAPPF	KEAVVEIMYEGEGISKTGELL	KIASDLDIKKAGAWYSYK	311							
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETKIKVVKVKNKVAPPF	KEAVVEIMYEGEGISKTGELL	KIASDLDIKKAGAWYSYK	311							
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.EQKDS	SNMGKETKIKVVKVKNKVAPPF	KEAVVEIMYEGEGISRTGEL	VKIASDLDIQKAGAWFSYN	311							
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDS	SNMGKETKIKVVKVKNKVAPPF	KEAVVEIMYEGEGISRTGEL	VKIASDLDIQKAGAWFSYN	311							
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN....D	VMGNKTKIKVVKVKNKVAPPF	RTAEVDIMYEGEGISKEGE	IIDLGTELDIVQKSGSWYSY	292							
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT....D	MIGNRARIKVVKVKNKVAPPF	KVAEVDIMYGGGIGISRTG	ELVDMAVEKDIINKSGSWYSY	294							
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVG	NDAVANTVKTIKTVKNKVA	APPFKEVELALVYGGKCFD	QLSDLVGLAADMDIKKAGS	FYSYG 307							
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNE	EPIGNRVKIKVVKVKNKVAPPF	RQAEFDVMFEGEGISREGE	LIDYGVKLDIVDKSGAWFSYK	294							
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNE	QHIGNRAKAKVVKVKNKVAPPF	FRAEFDIMFEGEGISKEGE	IIDYGVKLDIVDKSGAWLSYQ	296							
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNE	QHIGNRAKAKVVKVKNKVAPPF	FRAEFDIMFEGEGISKEGE	IIDYGVKLDIVDKSGAWLSYQ	296							
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGE	VIGNRTKIKVVKVKNKVAPPF	KSAAEFDIMYEGEGVSKVGE	ILDVATDLDIQKSGSWFSYQ	307							
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGD	EIIIGSETKIKVVKVKNKVAPPF	REVFQFDIMYEGEGISRMN	ELLILA EANGFIKKSGAWFSYD	310							
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EVLGNETRIVKVIKNKVAPPF	RQAEFDILYEGEGISWEGE	LIDIGVKNDIINKSGAWYSYN	294							
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EVLGNETRIVKVIKNKVAPPF	RQAEFDILYEGEGISWEGE	LIDIGVKNDIINKSGAWYSYN	294							
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EVLGNETRIVKVIKNKVAPPF	RQAEFDILYEGEGISWEGE	LIDIGVKNDIINKSGAWYSYN	294							
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGD	EVVGNETKIKVVKVKNKVAPPF	FREAIFDILYGCACVSRGE	IIDLGVKVEAKVVEKSGAWYSYN	302							
NTDB id 991124 AAH426 RS05470 WP 002914769.1	SVRLDIRRIGA....V.KEGD	NVVGSETRVKVVKNKIAPPF	KQAEFQILYGEGINIFYGEL	VDLGVKELTEKAGAWYSYN	295							
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGE	EVVGNETRIKVVKNKIAPPF	KEANTQIMYGGCFNREGEL	IDLGVKHKMVEKSGAWYSYN	293							
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGE	EVVGNETRIKVVKNKIAPPF	KEANTQIMYGGCFNREGEL	IDLGVKHKMVEKSGAWYSYN	293							
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGD	EVVGNSETRVKVVKNKVAPPF	RQAEFQILYGGKGIYRNGE	IIDLGVQQGLVEKSGAWYAYK	293							
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGD	EIIIGSETKIKVVKVKNKVAPPF	FREAIFQILYGGKGVNQLG	ELVDLAVQQNDIVQKAGAWYSYQ	293							
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGD	EIIIGSETKIKVVKVKNKVAPPF	KEAIFQILYGGKGVNQLG	ELVDLAVQQNDIVQKAGAWYSYQ	293							
consensus	*!!**!*!	*	**	*****!***!!*!!*!!*!	*	*****!*	***	*****	*	***	!*	***!*

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGGQAEKAKNYLKEHQDVFEIDHKVRAAHGILDDSEVAETEETTASKTKAKAKKEEKAVETEEIELELED	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTENKKDEPKKEEA . .VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTENKKDEPKKEEA . .VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTENKKDEPKKEEA . .VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTENKKDEPKKEEA . .VNEEVPLDLGDELEIE	385
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGGQSENAKKYLADNPEVFAEIDHQVVRVQFCIDGEEAAESKKDEVAQVDS . .VNEEVTLDLGDELEIE	381
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGGQSENAKKYLADNPEIFDEIDHQVVRVQFCIDGEEIAESKKDEAAQVDS . .VNEEVTLDLGDELEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGGQSENAKRYLADHPQLFDEIDRKVRVKFCILEESEESAMAVASEETDDLALDLNGIEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGGQSENAKKFLADNPEIFDDIDHKVVRVQFCILEEDNTEEKQSSKEKETDEK . .ADKNLVLELDDTIELE	382
NTDB id 115 BSU 16940 NP 389576.2	EERLGGQRENAKQFLKENKDIMLMIQEQRREHYCIDNNGVVQQQAEEETQEEL .EFE .ETDDLALDLNGIEIE	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGGQRENAKNYLADHEDVEDEVRLKVRVRAAYGISDVPEEDLPTTEDE .QI .NILPDDSTEE	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGGQCKEKTIAIYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAA .PEAAEA	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGRENSKAFLENPEIADEITKATQNSMCIIEGMISGSEDE . .GE .E	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGRENAKALLKEDKALADEITLTKESIGSNEEIMPLPDEP . .LE .EME	347
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRENAKALLKEDKALADEITLTKESIGSNEEIMPLPDEP . .LE .EME	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRDITVKELIKDNPEIAEELAKIREKLQAK	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQCKNNAVKWLKENPEIADKLEQETRNTLASNPNSVLKATAS . .D . .SNDESDVEEFSEE . .L	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGGQKDNVVRVWLKENPEISDEIDAKTRALNCVEMHITEGTQDE . .TDGERPEE	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGGQKDNVVRVWLKENPEISDEIDAKTRALNCVEMHITEGTQDE . .TDGERPEE	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGGQKDNVVRVWLKENPEISDEIDAKTRALNCVEMHITEGTQDE . .TDGERPEE	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGGGRDNCREFLRENAREIENKVRREHLGVTPMGAVTLAEE . .VE .ED	352
NTDB id 991124 AAH426 RS05470 WP 002914769.1	GDKIGQCKANAITWLKENPAAAKEIEKKVRELLLNQDAKPD . .FV . .VD .GNDAAETEQDF	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQCKANACKYLLKENPEIAKTLDDKKLREMLLNPNMQLI . .AETSSAADDVEFGAVPEEF	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQCKANACKYLLKENPEIAKTLDDKKLREMLLNPNMQLI . .AETSSAADDVEFGAVPEEF	354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQCKANAACKYLLKENPEIQQEIQQLTRAKLLVTSANTKA . .TP . .VA .EDLADADI	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGGQKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTA . .AHD .ETEEEPDLLLES	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGGQKNNVIRYFEEENQIAEIERNIREQLLTTGTNGAV . .QI . .EDEEPPDLLLES	349
consensus	**!!!** ** * ** * ** * ** * ** * ** * ** *	

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NTDB id 600 KW2 RS01765 WP 011675413.1 ... 387
NTDB id 269 KZH43 RS08665 WP 001085462.1 IEE 388
NTDB id 228 SPD RS09265 WP 001085462.1 IEE 388
NTDB id 194 SPR RS08825 WP 001085462.1 IEE 388
NTDB id 159 SP RS09750 WP 001085462.1 IEE 388
NTDB id 527 SMSK321 RS11065 WP 001085454.1 IEE 384
NTDB id 499 SM12261 RS08315 WP 078228268.1 IEE 384
NTDB id 453 Spy49 1753c ACI62003.1 D.. 378
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NTDB id 1214 NCTC11637 00359 SQJ03206.1 ... 347
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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
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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
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 non conserved
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 ≥ 50% conserved