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|---|--------------------------|---|-----|
| NTDB id 625 LCA RS02525 WP 011374196.1 | TVRLEVRRRAETIKNGT....DM | IGNRARIKVVKNKVAPPFKVAEVDIMYGGQGISRTGELVDMAVEKDIINKSGSWYSYG | 294 |
| NTDB id 117562 A414 RS07400 WP 003732286.1 | TVRLEVRRRAEQLKQGT....DV | MGNKTKIKVVKNKVAPPFRFAEVDIMYGGEGISREGELVDMAAEVDVINKSGSWYSYK | 292 |
| NTDB id 115 BSU 16940 NP 389576.2 | SVRLEVRRAEQLKQGN....DV | MGNKTKIKVVKNKVAPPFRFAEVDIMYGGEGISKEGEIDLGTELDIVQKSGSWYSYE | 292 |
| NTDB id 600 KW2 RS01765 WP 011675413.1 | SVRLDVRGSTKIEEGS.GDNKTQ | IGKITIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGIINKSGAWFAYN | 312 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | SVRLDVRGNTQIKGTG.DQKETN | VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK | 311 |
| NTDB id 228 SPD RS09265 WP 001085462.1 | SVRLDVRGNTQIKGTG.DQKETN | VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK | 311 |
| NTDB id 194 SPR RS08825 WP 001085462.1 | SVRLDVRGNTQIKGTG.DQKETN | VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK | 311 |
| NTDB id 159 SP RS09750 WP 001085462.1 | SVRLDVRGNTQIKGTG.DQKETN | VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK | 311 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | SVRLDVRGNTQIKGTG.DQKDTN | VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK | 311 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | SVRLDVRGNTQIKGTG.DQKDTN | VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK | 311 |
| NTDB id 453 Spy49 1753c ACI62003.1 | SVRLDVRGTTQIKGTG.DQKDS | IGKETKIKVVKNKVAPPFKVAEVEIMYGGEGISRTGELVKIASDLDIQKAGAWFSYN | 311 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | SVRLDVRGNTQIKGTG.EQKDSN | IGKETKIKVVKNKVAPPFKAEFVEIYYGGEGISRTGELVKIASDLGIQKAGAWYSYN | 311 |
| NTDB id 1313 DR RS12030 WP 010888966.1 | SVRLDVRKIGQ....PTKVGND | AVANTVKIKTVKNKVAAPFKVEVELALVYGGKGFQDQLSDLVGLAADMDIINKAGSFYSYG | 307 |
| NTDB id 1245 Cj1673c YP 002345041.1 | SVRLDVRKIVAT....L.KQNEEP | IGNRVKVVKNKVAPPFRQAEFDMVFGGELSREGELIDYGVKLDIVDKSGAWFSYK | 294 |
| NTDB id 1211 C694 RS00795 WP 000963128.1 | SVRIDIRRIAS....L.KQNEQH | IGNRAKAKVVKNKVAPPFRFAEAFDIMFGEGISKEGETIDYGVKLDIVDKSGAWLSYQ | 296 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 | SVRIDIRRIAA....L.KQNEQH | IGNRAKAKVVKNKVAPPFRFAEAFDIMFGEGISKEGETIDYGVKLDIVDKSGAWLSYQ | 296 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1 | SVRIDIRRSLSDTGKIKDKSGEV | IGNRTKVVKNKVAPPFKSAEFDIMYGGEGVSKVGEILDVATDLDIQKSGSWFSYQ | 307 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | SVRLDIRRCGV....V.KGDDEI | IGSETKVVKNKVAPPFRFVQFDIMYGGEGISRMNELLILAEANGFIKKSGAWFSYD | 310 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 | SVRLDIRRTGS....I.KKGEV | LGNETRVKVIKNKVAPPFRQAEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN | 294 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 | SVRLDIRRTGS....I.KKGEV | LGNETRVKVIKNKVAPPFRQAEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN | 294 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 | SVRLDIRRTGS....I.KKGEV | LGNETRVKVIKNKVAPPFRQAEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN | 294 |
| NTDB id 1427 RS RS02760 WP 011000510.1 | SVRLDIRRIGS....I.KKGEV | VGNETKVVKNKVAPPFRFAEAFDILYGGAGVSREGEIIDLGVEAKVVEKSGAWYSYN | 302 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | SVRLDIRRTGA....I.KEGEEV | VGNETRIKVVKNKIAAPFKAEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN | 293 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 | SVRLDIRRTGA....I.KEGEEV | VGNETRIKVVKNKIAAPFKAEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN | 293 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 | SVRLDIRRIGQ....V.KEGDEI | VGSETKVVKNKMAPPFKAEAFQILYGGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ | 293 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 | SVRLDIRRIGQ....V.KEGDEI | IGSETKVVKNKMAPPFKAEAFQILYGGKGVNQLGELVDLAVQQNIVQKAGAWYSYQ | 293 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 | SVRLDIRRTGA....V.KEGDEV | VGSETRVKNKVAPPFRQAEFQILYGGKIYRNGEIIDLGVQQGLVEKSGAWAYK | 293 |
| consensus | *!*!*!*!*! | * ** *!*!*!*!*!*!*!*!*!* * *!*!*!*!*!*!*!*!*!* *!*!*!*!*!*!*!*!*!*!*! | |

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| NTDB id 625 LCA RS02525 WP 011374196.1 | SERIGQGRENAKNYLADHEDVEDEVRLKVR AAYGTS | SDVPEEDLPTTEDEQINILPDDSTEE..... | 355 |
| NTDB id 117562 A414 RS07400 WP 003732286.1 | EERIGQGRENAKQYLKEHTDIRDEISKRVREYEI | DGSSKEPLD..EKEETLSLLDDE..... | 348 |
| NTDB id 115 BSU 16940 NP 389576.2 | EERLGQGRENAKQFLKENKDIMLMIQEQIREHYGL | DNNGVVQQAETQEELEFEE..... | 348 |
| NTDB id 600 KW2 RS01765 WP 011675413.1 | DEKIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGL | LDDSEVAETEETTASKTKAKAKKEEKAVETEEIELE | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFG | LIDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 228 SPD RS09265 WP 001085462.1 | DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFG | LIDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 194 SPR RS08825 WP 001085462.1 | DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFG | LIDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 159 SP RS09750 WP 001085462.1 | DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFG | LIDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | DEKIGQGSSENAKKYLADNPEIFDEIDHQVVRVQFGL | LIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIE | 381 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | DEKIGQGSSENAKKYLADNPEVFAEIDHQVVRVQFGL | LIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDELEIE | 381 |
| NTDB id 453 Spy49 1753c ACI62003.1 | GEKIGQGSSENAKRYLADHPQLFDEIDRKVVRVKFGL | LEESEEEESAMAVASE.....E.....TDDLALDLNGIEIE | 377 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | GEKIGQGSSENAKKFLADNPEIFDDIDHKVVRVQYGL | IEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE | 382 |
| NTDB id 1313 DR RS12030 WP 010888966.1 | DERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA | | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1 | DKKLGQGRENSKAFLLKENPEIAD EITKAIQNSMGT | EGMI....SGSEDDE..GEE..... | 343 |
| NTDB id 1211 C694 RS00795 WP 000963128.1 | DKKLGQGRENAKALLKEDKALADEITLTKESIGSNEEI |MPLPDEP..LEEME..... | 347 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 | DKKLGQGRENAKALLKEDKALADEITLTKESIGSNEEI |MPLPDEP..LEEME..... | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1 | DTKLGQGRD TVKELTKDNPELAEELEAKIREKLQAK | | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | GTKIGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNS |VLKATASDSNDES DVEE..FSEEEL..... | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 | GAKIGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI |TEGTQDETD.....GE..RPEE..... | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 | GAKIGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI |TEGTQDETD.....GE..RPEE..... | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 | GAKIGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI |TEGTQDETD.....GE..RPEE..... | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1 | GERIGQGRDNCREFLRENAELAREIENKVRHLGVTPMG |AV.TLAEVEED..... | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GDKIGQGGKANACKYLLKENPEIAKTLDDKKLREMLLNPENM |QLIAETSSAADDVEFGA..VPEEF..... | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 | GDKIGQGGKANACKYLLKENPEIAKTLDDKKLREMLLNPENM |QLIAETSSAADDVEFGA..VPEEF..... | 354 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 | GNKIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTN |GAVQ.I.EDEE EPD..L..LLES..... | 349 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 | GNKIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASD |QTAA.HDETEE EPD..L..LES..... | 349 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 | GSKIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN |TKATPVAEDLADAD..I..... | 347 |
| consensus | ***!!!***** ** * *** ** ** ** ** | | |

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| | IEE | |
| NTDB id 625 LCA RS02525 WP 011374196.1 | ... | 355 |
| NTDB id 117562 A414 RS07400 WP 003732286.1 | ... | 348 |
| NTDB id 115 BSU 16940 NP 389576.2 | ... | 348 |
| 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 499 SM12261 RS08315 WP 078228268.1 | IEE | 384 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | IEE | 384 |
| NTDB id 453 Spy49 1753c ACI62003.1 | D.. | 378 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | D.. | 383 |
| NTDB id 1313 DR RS12030 WP 010888966.1 | ... | 363 |
| 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 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 1074 ABD1 RS10195 WP 000344167.1 | ... | 349 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 | ... | 349 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 | ... | 347 |

consensus

 non conserved
 similar
 ≥ 50% conserved