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| NTDB id 1030848 AB6W34 RS04610 WP 003589104.1 | SVRLDVRGQVVDGK...DVGFAFKLVTKNKVAPPFKSVETTMSFGHGIEHNTDMINLATDKDNDIDVITKSGSW       | 307 |
| NTDB id 600 KW2 RS01765 WP 011675413.1        | SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELNIAV...EEGIKKSGAW    | 308 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1      | SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW   | 307 |
| NTDB id 228 SPD RS09265 WP 001085462.1        | SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW   | 307 |
| NTDB id 194 SPR RS08825 WP 001085462.1        | SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW   | 307 |
| NTDB id 159 SP RS09750 WP 001085462.1         | SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW   | 307 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1    | SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW   | 307 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1    | SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW   | 307 |
| NTDB id 453 Spy49 1753c ACI62003.1            | SVRLDVRGNTQIKGTG.DQKDSIIGKETKIKVVKNKVAPPFKAEVVEIMYGEGISRTGELVKIAS...DLDIKKAGAW   | 307 |
| NTDB id 408 SMU RS09530 WP 002262392.1        | SVRLDVRGNTQIKGTG.EQKDSIIGKETKIKVVKNKVAPPFKAEVVEIYEGEGISRTGELVKIAS...DLGIIQKAGAW  | 307 |
| NTDB id 625 LCA RS02525 WP 011374196.1        | TVRLEVRRAETIKNGT...DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAV...EKDIINKSGSW     | 290 |
| NTDB id 115 BSU 16940 NP 389576.2             | SVRLEVRRAEQLKQGN...DVMGNKTKIKVVKNKVAPPFRTAEVIMYGEGISKEGEIIDLGT...ELDIVQKSGSW     | 288 |
| NTDB id 1313 DR RS12030 WP 010888966.1        | SVRLDVRKIGQ...PTKVGNDAVANTVKIKTVKNKVAAPFKEVELALVYGGKGFQDLSDLVGLAA...DMDIKKAGSF   | 303 |
| NTDB id 1245 Cj1673c YP 002345041.1           | SVRLDVRKVAT...L.KQNEEPIGNRVKIKVVKNKVAPPFRQAEDVIMFGEGLSREGELIDYGV...KLDIVDKSGAW   | 290 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1       | SVRIDIRRIAA...L.KQNEQHIGNRAKIKVVKNKVAPPFRQAEDVIMFGEGISKEGEIIDYGV...KLDIVDKSGAW   | 292 |
| NTDB id 1211 C694 RS00795 WP 000963128.1      | SVRIDIRRIAS...L.KQNEQHIGNRAKIKVVKNKVAPPFRQAEDVIMFGEGISKEGEIIDYGV...KLDIVDKSGAW   | 292 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1      | SVRIDIRRLSLSDTGKIKDKSGEVIIGNRTKIKVVKNKVAPPFKSAEFDIMYGEGVSKVGEIIDVAT...DLDIQKSGSW | 303 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1     | SVRLDIRRCGV...V.KDGDEIIGSETKVKVVKNKVAPPFRQVQFDIMYGEGISRMNELLILAE...ANGFIKKSGAW   | 306 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1      | SVRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEDVILYGEGISWEGELIDYGV...KNDIINKSGAW   | 290 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1      | SVRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEDVILYGEGISWEGELIDYGV...KNDIINKSGAW   | 290 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1     | SVRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEDVILYGEGISWEGELIDYGV...KNDIINKSGAW   | 290 |
| NTDB id 1427 RS RS02760 WP 011000510.1        | SVRLDIRRIGS...I.KKGDEVGNETKIKVVKNKVAPPFRQAEDVILYGAGVSRGEIIDLGV...EAKVVEKSGAW     | 298 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1   | SVRLDIRRTGA...I.KEGEEVLGNETRIKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGV...KHKMVEKSGAW    | 289 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1     | SVRLDIRRTGA...I.KEGEEVLGNETRIKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGV...KHKMVEKSGAW    | 289 |
| NTDB id 1205 PSJM300 05545 AFN77183.1         | SVRLDIRRTGA...V.KEGEEVLGNETRVKVVKNKVAPPFRQAEDVILYGGKIVRNGEIIDLGV...QQGLVEKSGAW   | 289 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1     | SVRLDIRRIGQ...V.KEGDEIIGSETKVKVVKNKMAPPFRQAIFQILYGGKVNQLGELVDLAV...QQNIVQKAGAW   | 289 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1      | SVRLDIRRIGQ...V.KEGDEIIGSETKVKVVKNKMAPPFKAEIFQILYGGKVTNQLGELVDLAV...QQDIVQKAGAW  | 289 |
| consensus                                     | *!***** * ** *****!!!!!!*! * * *****!*** ** * * * * * ! ! **                     |     |

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| NTDB id 1030848 AB6W34 RS04610 WP 003589104.1 | YNYGKERLGGGLVNASHYLDEHPETISKETEEKIREQVAPKKPEEADEKQDDKKDDQASADKKTEKTTTTDTEKKAGKKDD | 387 |
| NTDB id 600 KW2 RS01765 WP 011675413.1        | FAYNDEKIGQGAEKAKXNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEETASKTKAKAKKEEKAVET.EEIELELED   | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1      | YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VN.EEVPLDLGD   | 380 |
| NTDB id 228 SPD RS09265 WP 001085462.1        | YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VN.EEVPLDLGD   | 380 |
| NTDB id 194 SPR RS08825 WP 001085462.1        | YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VN.EEVPLDLGD   | 380 |
| NTDB id 159 SP RS09750 WP 001085462.1         | YSYKDEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE...PKKEEA..VN.EEVPLDLGD   | 380 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1    | YSYKDEKIGQGSENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAE...SKKDE...VAQVDS..VN.EEVTLDLGD   | 376 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1    | YSYKDEKIGQGSENAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAE...SKKDE...AAQVDS..VN.EEVTLDLGD   | 376 |
| NTDB id 453 Spy49 1753c ACI62003.1            | FSYNGEKIGQGSENAKRYLADHPQLFDEIDRKRVRVKFGLLEESEESAMAVASE...E...T.DDLALDLDN          | 372 |
| NTDB id 408 SMU RS09530 WP 002262392.1        | YSYNGEKIGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK...ETDEK..AD.KNLVLELDD     | 377 |
| NTDB id 625 LCA RS02525 WP 011374196.1        | YSYGSEIRIGQGRENAKNYLADHEDVEDEVRLKVRAAAGISDVPEEDLPTTEDE.QI.NILPDDST...EE...355     | 355 |
| NTDB id 115 BSU 16940 NP 389576.2             | YSYEEERLGGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQAEETQEEL.EFE.E...348               | 348 |
| NTDB id 1313 DR RS12030 WP 010888966.1        | YSYGDERIGQKKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAPEAAEA...363                  | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1           | FSYKDKKLGQGRENSKAFLENPEIADEITKAIQNSMGIEMMI...SGSEDDE..GEE...343                   | 343 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1       | LSYQDKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEI...MPLPDEP..LEEME...347               | 347 |
| NTDB id 1211 C694 RS00795 WP 000963128.1      | LSYQDKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEI...MPLPDEP..LEEME...347               | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1      | FSYQDTKLGQGRDTPVKELIKDNPELAELEAKIREKLQAK...343                                    | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1     | FSYDGTKIGQGXNNAVKWLKENPEIADKLEQEI RNTLASNPNS...VLKATASDSNDES DVVEEF...SEEEL...372 | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1      | YSYNGAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGT...QDET DGER...PEE...348         | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1      | YSYNGAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGT...QDET DGER...PEE...348         | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1     | YSYNGAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGT...QDET DGER...PEE...348         | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1        | YSYNGERIGQGRDNCREFLRENAELAREIENKVRHLGVTPMG...AV.TLAE EVEED...352                  | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1   | YSYNGDKIGQGXKANACKYLLKENPEIAKTLDKKLREMLLN PENM...QLIAETSSAADDVEFGAV...PEEF...354  | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1     | YSYNGDKIGQGXKANACKYLLKENPEIAKTLDKKLREMLLN PENM...QLIAETSSAADDVEFGAV...PEEF...354  | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1         | YAYKGSKIGQGXANAACKYLEENPEIGQEIEQQIRAKLLVTSAN...TKATPVAEDLADADI...347              | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1     | YSYQGNKIGQGXNNVIRYLEENPQISTEIEAVIREQLLTKASD...QTAA.HDETEEEP DLL...ES...349        | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1      | YSYQGNKIGQGXNNVIRYFENNQIAEIEIRNIREQLLTTGTN...GAVQ.I.EDEE EEPDLL...LES...349       | 349 |
| consensus                                     | **! **!!!***** ** * *** ***** ** **   |     |

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|---|------------|-----|
| NTDB id 1030848 AB6W34 RS04610 WP 003589104.1 | PASFGVDRLV | 397 |
| NTDB id 600 KW2 RS01765 WP 011675413.1        | .....      | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1      | ELEIEIEE.. | 388 |
| NTDB id 228 SPD RS09265 WP 001085462.1        | ELEIEIEE.. | 388 |
| NTDB id 194 SPR RS08825 WP 001085462.1        | ELEIEIEE.. | 388 |
| NTDB id 159 SP RS09750 WP 001085462.1         | ELEIEIEE.. | 388 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1    | ELEIEIEE.. | 384 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1    | ELEIEIEE.. | 384 |
| NTDB id 453 Spy49 1753c ACI62003.1            | GIEIED.... | 378 |
| NTDB id 408 SMU RS09530 WP 002262392.1        | TIELED.... | 383 |
| NTDB id 625 LCA RS02525 WP 011374196.1        | .....      | 355 |
| NTDB id 115 BSU 16940 NP 389576.2             | .....      | 348 |
| NTDB id 1313 DR RS12030 WP 010888966.1        | .....      | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1           | .....      | 343 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1       | .....      | 347 |
| NTDB id 1211 C694 RS00795 WP 000963128.1      | .....      | 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 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