

logo



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|---|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|-----|---|---|---|---|---|---|---|---|-----|-----|---|-----|
| NTDB id 1313 DR RS12030 WP 010888966.1 | IYGPESGGKTTI | A | L | A | I | V | A | Q | A | Q | K | A | G | G | T | C | A | F | I | D | A | E | H | A | L | D | P | V | Y | A | R | A | L | G | V | N | T | D | E | L | L | S | Q | P | D | N | G | E | Q | A | L | E | I | M | E | L | L | V | R | S | G | A | I | D | V | V | V | 155 | | | | | | | | | | | | | |
| NTDB id 600 KW2 RS01765 WP 011675413.1 | IYGPESGGKTTV | A | L | H | V | A | V | A | A | V | Q | K | E | G | G | I | A | A | F | I | D | A | E | N | A | L | D | P | E | Y | A | K | A | L | G | V | N | T | D | E | L | L | S | Q | P | D | Y | G | E | Q | G | L | I | A | E | K | L | I | T | S | G | A | V | D | L | V | V | T | 157 | | | | | | | | | | | | |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | IYGPESGGKTTV | A | L | H | V | A | V | A | Q | A | Q | K | E | G | G | I | A | A | F | I | D | A | E | H | A | L | D | P | A | Y | A | A | A | L | G | V | N | T | D | E | L | L | S | Q | P | D | S | G | E | Q | G | L | E | I | A | G | K | L | I | D | S | G | A | V | D | L | V | V | 156 | | | | | | | | | | | | |
| NTDB id 228 SPD RS09265 WP 001085462.1 | IYGPESGGKTTV | A | L | H | V | A | V | A | Q | A | Q | K | E | G | G | I | A | A | F | I | D | A | E | H | A | L | D | P | A | Y | A | A | A | L | G | V | N | T | D | E | L | L | S | Q | P | D | S | G | E | Q | G | L | E | I | A | G | K | L | I | D | S | G | A | V | D | L | V | V | 156 | | | | | | | | | | | | |
| NTDB id 194 SPR RS08825 WP 001085462.1 | IYGPESGGKTTV | A | L | H | V | A | V | A | Q | A | Q | K | E | G | G | I | A | A | F | I | D | A | E | H | A | L | D | P | A | Y | A | A | A | L | G | V | N | T | D | E | L | L | S | Q | P | D | S | G | E | Q | G | L | E | I | A | G | K | L | I | D | S | G | A | V | D | L | V | V | 156 | | | | | | | | | | | | |
| NTDB id 159 SP RS09750 WP 001085462.1 | IYGPESGGKTTV | A | L | H | V | A | V | A | Q | A | Q | K | E | G | G | I | A | A | F | I | D | A | E | H | A | L | D | P | A | Y | A | A | A | L | G | V | N | T | D | E | L | L | S | Q | P | D | S | G | E | Q | G | L | E | I | A | G | K | L | I | D | S | G | A | V | D | L | V | V | 156 | | | | | | | | | | | | |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | IYGPESGGKTTV | A | L | H | V | A | V | A | Q | A | Q | K | E | G | G | I | A | A | F | I | D | A | E | H | A | L | D | P | A | Y | A | A | A | L | G | V | N | T | D | E | L | L | S | Q | P | D | S | G | E | Q | G | L | E | I | A | G | K | L | I | D | S | G | A | V | D | L | V | V | 156 | | | | | | | | | | | | |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | IYGPESGGKTTV | A | L | H | V | A | V | A | Q | A | Q | K | E | G | G | I | A | A | F | I | D | A | E | H | A | L | D | P | A | Y | A | A | A | L | G | V | N | T | D | E | L | L | S | Q | P | D | S | G | E | Q | G | L | E | I | A | G | K | L | I | D | S | G | A | V | D | L | V | V | 156 | | | | | | | | | | | | |
| NTDB id 453 Spy49 1753c ACI62003.1 | IYGPESGGKTTV | A | L | H | V | A | V | A | Q | A | Q | K | E | G | G | I | A | A | F | I | D | A | E | H | A | L | D | P | A | Y | A | A | A | L | G | V | N | T | D | E | L | L | A | Q | P | D | S | G | E | Q | G | L | E | I | A | G | K | L | I | D | S | G | A | V | D | L | V | V | 156 | | | | | | | | | | | | |
| NTDB id 408 SMU RS09530 WP 002262392.1 | IYGPESGGKTTV | A | L | H | V | A | V | A | Q | A | Q | K | D | G | G | I | A | A | F | I | D | A | E | H | A | L | D | P | A | Y | A | A | A | L | G | V | N | T | D | E | L | L | S | Q | P | D | S | G | E | Q | G | L | E | I | A | G | K | L | I | D | S | G | A | V | D | L | V | V | 156 | | | | | | | | | | | | |
| NTDB id 115 BSU 16940 NP 389576.2 | Y | Y | G | P | E | S | S | G | K | T | T | V | A | L | H | A | I | A | E | V | Q | Q | Q | G | G | Q | A | A | F | I | D | A | E | H | A | L | D | P | V | Y | A | Q | K | L | G | V | N | I | E | L | L | S | Q | P | D | T | G | E | Q | A | L | E | I | A | E | A | L | V | R | S | G | A | V | D | I | V | V | 141 | | | |
| NTDB id 625 LCA RS02525 WP 011374196.1 | IYGPESGGKTTV | A | L | H | V | A | V | A | E | V | Q | Q | G | G | T | A | A | Y | I | D | A | E | N | A | M | D | P | K | Y | A | T | A | L | G | V | N | T | D | D | L | L | S | Q | P | D | T | G | E | Q | G | L | E | I | A | D | A | L | V | S | S | G | A | V | D | I | L | V | V | 143 | | | | | | | | | | | | |
| NTDB id 1245 Cj1673c YP 002345041.1 | IYGPESGGKTTL | T | L | H | I | I | A | E | C | Q | K | A | G | G | V | C | A | F | I | D | A | E | H | A | L | D | V | K | Y | A | K | N | L | G | V | N | T | D | D | L | V | S | Q | P | D | F | G | E | Q | A | L | E | I | V | E | T | I | A | R | S | G | A | V | D | L | I | V | V | 142 | | | | | | | | | | | | |
| NTDB id 1211 C694 RS00795 WP 000963128.1 | IYGPESGGKTTL | S | L | H | I | I | A | E | C | Q | K | N | G | G | V | C | A | F | I | D | A | E | H | A | L | D | V | H | Y | A | K | R | L | G | V | D | T | E | N | L | L | S | Q | P | D | T | G | E | Q | A | L | E | I | L | E | T | I | T | R | S | G | I | D | L | V | V | 144 | | | | | | | | | | | | | | |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 | IYGPESGGKTTL | S | L | H | I | I | A | E | C | Q | K | N | G | G | V | C | A | F | I | D | A | E | H | A | L | D | V | H | Y | A | K | R | L | G | V | D | T | E | N | L | L | S | Q | P | D | T | G | E | Q | A | L | E | I | L | E | T | I | T | R | S | G | I | D | L | V | V | 144 | | | | | | | | | | | | | | |
| NTDB id 1334 RAOC RS04870 WP 004918236.1 | IYGPESGGKTTL | T | L | H | A | I | A | E | A | Q | K | V | G | G | T | A | A | F | I | D | A | E | H | A | F | D | M | H | Y | A | E | K | L | G | I | N | L | E | L | I | V | S | Q | P | D | N | G | E | Q | A | L | E | I | A | D | S | L | I | R | S | G | V | D | I | V | V | 151 | | | | | | | | | | | | | | |
| NTDB id 164589 WQ0 RS26770 WP 010063502.1 | Y | Y | G | P | E | S | S | G | K | T | T | L | T | L | H | A | V | A | N | A | Q | R | L | G | G | S | V | A | F | I | D | A | E | H | A | L | D | P | E | Y | A | K | K | L | G | V | D | I | D | S | L | I | L | S | Q | P | D | N | G | E | Q | A | L | E | I | T | D | M | L | V | R | S | G | A | L | D | L | I | V | T | 143 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | IYGPESGGKTTL | T | L | S | L | I | A | Q | A | Q | K | G | N | K | T | C | A | F | I | D | A | E | H | A | L | D | P | V | Y | A | R | N | L | G | V | N | T | D | E | L | L | S | Q | P | D | N | G | E | Q | A | L | E | I | C | D | A | L | V | R | S | G | A | V | D | V | I | V | 159 | | | | | | | | | | | | | |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 | I | F | G | P | E | S | S | G | K | T | T | L | C | L | E | A | V | A | Q | C | Q | K | N | G | G | V | C | A | F | V | D | A | E | H | A | F | D | P | V | Y | A | R | K | L | G | V | K | V | E | E | L | Y | L | S | Q | P | D | T | G | E | Q | A | L | E | I | C | D | T | L | V | R | S | G | I | D | M | V | V | 143 | | |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 | I | F | G | P | E | S | S | G | K | T | T | L | C | L | E | A | V | A | Q | C | Q | K | N | G | G | V | C | A | F | V | D | A | E | H | A | F | D | P | V | Y | A | R | K | L | G | V | K | V | E | E | L | Y | L | S | Q | P | D | T | G | E | Q | A | L | E | I | C | D | T | L | V | R | S | G | I | D | M | V | V | 143 | | |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 | I | F | G | P | E | S | S | G | K | T | T | L | C | L | E | A | V | A | Q | C | Q | K | N | G | G | V | C | A | F | V | D | A | E | H | A | F | D | P | V | Y | A | R | K | L | G | V | K | V | E | E | L | Y | L | S | Q | P | D | T | G | E | Q | A | L | E | I | C | D | T | L | V | R | S | G | I | D | M | V | V | 143 | | |
| NTDB id 1427 RS RS02760 WP 011000510.1 | IYGPESGGKTTL | T | L | Q | V | V | A | E | M | Q | K | L | G | G | T | C | A | F | I | D | A | E | H | A | L | D | V | T | Y | A | D | K | L | G | V | K | V | P | D | L | L | S | Q | P | D | T | G | E | Q | A | L | E | I | A | D | A | L | V | R | S | G | S | V | D | L | I | V | T | 151 | | | | | | | | | | | | |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | I | F | G | P | E | S | S | G | K | T | T | L | T | L | E | L | I | A | A | A | Q | R | E | G | K | T | C | A | F | I | D | A | E | H | A | L | D | P | V | Y | A | K | K | L | G | V | N | I | D | E | L | L | S | Q | P | D | T | G | E | Q | A | L | E | I | C | D | A | L | A | R | S | G | A | V | D | V | I | V | 142 | | |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 | I | F | G | P | E | S | S | G | K | T | T | L | T | L | E | L | I | A | A | A | Q | R | E | G | K | T | C | A | F | I | D | A | E | H | A | L | D | P | V | Y | A | K | K | L | G | V | N | I | D | E | L | L | S | Q | P | D | T | G | E | Q | A | L | E | I | C | D | A | L | A | R | S | G | A | V | D | V | I | V | 142 | | |
| NTDB id 1205 PSJM300 05545 AFN77183.1 | IYGPESGGKTTL | T | L | S | V | I | A | A | A | Q | R | M | G | S | T | C | A | F | V | D | A | E | H | A | L | D | P | D | Y | A | G | K | L | G | V | N | V | D | L | L | S | Q | P | D | T | G | E | Q | A | L | E | I | T | D | M | L | V | R | S | N | A | V | D | V | I | V | 142 | | | | | | | | | | | | | | |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 | IYGPESGGKTTM | T | L | Q | A | I | A | Q | C | Q | K | A | G | G | T | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|-----|
| NTDB id 1313 DR RS12030 WP 010888966.1 | IGQGGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAP.....EAAEA..... | 363 |
| NTDB id 600 KW2 RS01765 WP 011675413.1 | IGQGAEKAKNYLKEHQDVDFEIDHKVRAAHGLDDSEVAETE..EETTASKT.KAKAKKEEKAVETEEIELELED.... | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQD..TENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 228 SPD RS09265 WP 001085462.1 | IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQD..TENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 194 SPR RS08825 WP 001085462.1 | IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQD..TENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 159 SP RS09750 WP 001085462.1 | IGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGIDGEEVSEQD..TENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | IGQGSSENAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAES.....KKDE....AAQVDS..VNEEVTLDLGDELEIE | 381 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | IGQGSSENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAS.....KKDE....VAQVDS..VNEEVTLDLGDELEIE | 381 |
| NTDB id 453 Spy49 1753c ACI62003.1 | IGQGSSENAKRYLADHPQLFDEIDRKVVRVKFGLLEESEESAM..AVASE.....E.....TDDLALDLNGIEIE | 377 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | IGQGSSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQ..SSKEK.....ETDEK..ADKNLVLELDDTIELE | 382 |
| NTDB id 115 BSU 16940 NP 389576.2 | LGQGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQA..EETQEEL..EFE.E..... | 348 |
| NTDB id 625 LCA RS02525 WP 011374196.1 | IGQGGRENAKNYLADHEDVEDEVRLKVRAAYSIDVPEEDLPT..TEDE.QI..NILPDDST.....EE..... | 355 |
| NTDB id 1245 Cj1673c YP 002345041.1 | LGQGGRENSKAFLEKENPEIADEITKAIQNSMGI EGMISGSEDDEGEE..... | 343 |
| NTDB id 1211 C694 RS00795 WP 000963128.1 | LGQGGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPDEPLEEME..... | 347 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 | LGQGGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPDEPLEEME..... | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1 | LGQGRDITVKELIKDNPELAELEAKIREKLQAK..... | 343 |
| NTDB id 164589 WQO RS26770 WP 010063502.1 | LGQGGKENARNFLKDNPDLANEIEKKILEKLGIVRDPADAGEPAADAAAAPAADAA..AKPAATATTKAKPAKTAATAAKS.. | 374 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | IGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLK..ATASDSNDESD..VE.EFSEEEL..... | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 | IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEG..T.....QDET..DG.ERPEE..... | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 | IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEG..T.....QDET..DG.ERPEE..... | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 | IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEG..T.....QDET..DG.ERPEE..... | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1 | IGQGRDNCREFLRENAELAREIENKVRHLGVTMPGAV..TLAEVEED..... | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | IGQGGKANACKYLLKENPEIAKTLDKKLREMLLNPNMQLI..AETSSAADDVE..FG.AVPEEF..... | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 | IGQGGKANACKYLLKENPEIAKTLDKKLREMLLNPNMQLI..AETSSAADDVE..FG.AVPEEF..... | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 | IGQGGKANAAYLEENPEIGQEIEQQIRAKLLVTSANTKA..TPVAEDLADAD..I..... | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 | IGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTA..A.HDETEEEP..LL...ES..... | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 | IGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAV..Q.I.EDEEEP..LL...LES..... | 349 |
| consensus | *!!!***** ** ***** ***** ** * | |

logo

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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 | 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 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 164589 WQO RS26770 WP 010063502.1 | ... | 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
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 ≥ 50% conserved