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|---|------------------------------------|------------------------------|--------------|---------------------------------|-----------------------|----|
| NTDB id 600 KW2 RS01765 WP 011675413.1 | MATK....KKTNFDDITKKYGA | ERDKALADALALIEKDFGKGSIMRLGEA | .ANQKVS | VSSGSLALDIALGAGGYPKGR | 74 | |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | .MAK....KPKKLEEISKKFGA | EREKALNDALKLIEKDFGKGSIMRLGER | .AEQKVQ | VMSGSLALDIALGSGGYPKGR | 73 | |
| NTDB id 228 SPD RS09265 WP 001085462.1 | .MAK....KPKKLEEISKKFGA | EREKALNDALKLIEKDFGKGSIMRLGER | .AEQKVQ | VMSGSLALDIALGSGGYPKGR | 73 | |
| NTDB id 194 SPR RS08825 WP 001085462.1 | .MAK....KPKKLEEISKKFGA | EREKALNDALKLIEKDFGKGSIMRLGER | .AEQKVQ | VMSGSLALDIALGSGGYPKGR | 73 | |
| NTDB id 159 SP RS09750 WP 001085462.1 | .MAK....KPKKLEEISKKFGA | EREKALNDALKLIEKDFGKGSIMRLGER | .AEQKVQ | VMSGSLALDIALGSGGYPKGR | 73 | |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | .MAK....KPKKLDEISKKFGA | EREKALNDALKLIEKDFGKGSIMRLGER | .AEQKVQ | VMSGSLALDIALGSGGYPKGR | 73 | |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | .MAK....KPKKLDEISKKFGA | EREKALNDALKLIEKDFGKGSIMRLGER | .AEQKVQ | VMSGSLALDIALGSGGYPKGR | 73 | |
| NTDB id 453 Spy49 1753c ACI62003.1 | .MAK....KLKKNEEITKKFG | DERKALDDALKNIEKDFGKGAVMRLGER | .AEQKVQ | VMSGSLALDIALGAGGYPKGR | 73 | |
| NTDB id 408 SMU RS09530 WP 002262392.1 | .MAK....RIKKTEEITKKFG | DERKALDDALKNIEKDFGKGAVMRLGER | .AEQKVQ | VMSGSLALDIALGAGGYPKGR | 73 | |
| NTDB id 115 BSU 16940 NP 389576.2 |MSDRQAALDMALKQ | IEKQFGKGSIMKLGEK | .TDTR | ISTVPSGSLALDTALGIGGYPGR | 58 | |
| NTDB id 1166217 AB3Y94 RS04065 WP 367295135.1 |MADERQAALDKALKK | IEKDFGKGSIMRLGDN | .ANMEVET | VPSGSLALDVALGVGGYPGR | 59 | |
| NTDB id 625 LCA RS02525 WP 011374196.1 |MAKDERQAALDAALKK | IEKNFGKGSIMRMGEK | .VDTQV | VSTVSSGSLALDEALGVGGYPGR | 60 | |
| NTDB id 1313 DR RS12030 WP 010888966.1 |MSKDATKEISAPTDAKERS | KATETAMSQIEKAFGKGSIMKLGAE | .SKLDV | QVVSTGSLSLDLALGVGGIPGR | 72 | |
| NTDB id 1245 Cj1673c YP 002345041.1 |MDNKRKSLDAALKS | LDKTFGKGTILRLGDK | .EVEQ | IDSIGTGSVGLDLALGIGGVPKGR | 59 | |
| NTDB id 1211 C694 RS00795 WP 000963128.1 |MAIDEDKQKATISLAIKQ | IDKVFGKCALVRLGDK | .QVEK | IDSISTGSLGLDLALGIGGVPKGR | 61 | |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 |MAIDEDKQKATISLAIKQ | IDKVFGKCALVRLGDK | .QVEK | IDAISTGSLGLDLALGIGGVPKGR | 61 | |
| NTDB id 1334 RAOC RS04870 WP 004918236.1 |MAKT..ETTSPNDDKKKALAAVLEK | LDKTYGKGTVMKLGDTVDHN | .IEV | IPSGSLGLDLALGVGGYPKGR | 68 | |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | .MAENKKSNNNTV..VKQVEPEQKKQALEAALAQ | IEKQFGKGSIMKLGQT | .EQLD | IESVSTGSLGLDLALGIGGLPMGR | 76 | |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 |MSDDKSKALAAALAQ | IEKSFGKGAIMKMDGSQREEN | .LEV | ISTGSLGLDLALGVGGLPRGR | 60 | |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 |MSDDKSKALAAALAQ | IEKSFGKGAIMKMDGSQREEN | .LEV | ISTGSLGLDLALGVGGLPRGR | 60 | |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 |MSDDKSKALAAALAQ | IEKSFGKGAIMKMDGSQREEN | .LEV | ISTGSLGLDLALGVGGLPRGR | 60 | |
| NTDB id 1427 RS RS02760 WP 011000510.1 | .MEDG.....K..KAASMSAEKQKALAAALAQ | IEKQFGKGSIMKMGDA | .EVEPVQ | VSTGSLGLDVALGVGGLPRGR | 68 | |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 |MDENKQKALAAALGQ | IEKQFGKGSIMRLGDN | .RAMDVET | ISTGSLSLDIALGAGGLPMGR | 59 | |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 |MDENKQKALAAALGQ | IEKQFGKGSIMRLGDN | .RAMDVET | ISTGSLSLDIALGAGGLPMGR | 59 | |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 |MDDNKSKALQAALSQ | IEKQFGKNTVMRLGDN | .TVQAVEA | VSTGSLTLDIALGIGGLPKGR | 59 | |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 |MDENKSKALQAALSQ | IEKQFGKNTVMRLGDN | .TVQAVEA | VSTGSLTLDIALGIGGLPKGR | 59 | |
| NTDB id 1205 PSJM300 05545 AFN77183.1 |MDENKRRALAAALGQ | IEKQFGKGAVMRMGDH | .DRQA | IPSI | ISTGSLGLDIALGIGGLPKGR | 59 |
| consensus | | *** ** * | ***! *!***** | * **!*!*!*!*!*!*!*!*!*!*!*!*!*! | | |

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|---|---|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1 | I V E I Y G P E S S G K T T V A L H 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 I D E L L S Q P D Y G E Q G L Q I A E K L I T S G A V D I | 154 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | I I E I Y G P E S S G K T T V A L H A V A 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 I 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 | 153 |
| NTDB id 228 SPD RS09265 WP 001085462.1 | I I E I Y G P E S S G K T T V A L H A V A 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 I 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 | 153 |
| NTDB id 194 SPR RS08825 WP 001085462.1 | I I E I Y G P E S S G K T T V A L H A V A 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 I 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 | 153 |
| NTDB id 159 SP RS09750 WP 001085462.1 | I I E I Y G P E S S G K T T V A L H A V A 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 I 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 | 153 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | I I E I Y G P E S S G K T T V A L H A V A 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 I 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 | 153 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | I I E I Y G P E S S G K T T V A L H A V A 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 I 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 | 153 |
| NTDB id 453 Spy49 1753c ACI62003.1 | I I E I Y G P E S S G K T T V A L H A V A 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 I 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 | 153 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | I V E I Y G P E S S G K T T V A L H A V A 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 I 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 | 153 |
| NTDB id 115 BSU 16940 NP 389576.2 | I I E V 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 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 | 138 |
| NTDB id 1166217 AB3Y94 RS04065 WP 367295135.1 | I V E I Y G P E S S G K T T V A L H A V A A E V Q K Q G G T A A Y I D A E N A L D P A Y A T A L G V N I D D L L S Q P D T G E Q G L Q I A D A L I S S G A V D I | 139 |
| NTDB id 625 LCA RS02525 WP 011374196.1 | I V E I Y G P E S S G K T T V A L H A V A A E V Q K 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 I 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 | 140 |
| NTDB id 1313 DR RS12030 WP 010888966.1 | I T E I Y G P E S G K T T L A L A I V A 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 V S Q P D N G E Q A L E I M E L L V R S G A I D V | 152 |
| NTDB id 1245 Cj1673c YP 002345041.1 | I I E I Y G P E S S G K T T L 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 Y 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 | 139 |
| NTDB id 1211 C694 RS00795 WP 000963128.1 | I I E I Y G P E S S G K T T L 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 V S Q P D T G E Q A L E I L E T I T R S G G I D L | 141 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 | I I E I Y G P E S S G K T T L 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 V S Q P D T G E Q A L E I L E T I T R S G G I D L | 141 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1 | I V E I Y G P E S S G K T T L 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 E L I V S Q P D N G E Q A L E I A D S L T R S G G V D I | 148 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | I V E I Y G P E S S G K T T L 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 | 156 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 | I V E 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 G I D M | 140 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 | I V E 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 G I D M | 140 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 | I V E 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 G I D M | 140 |
| NTDB id 1427 RS RS02760 WP 011000510.1 | V V E I Y G P E S S G K T T L 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 I S Q P D T G E Q A L E I A D A L V R S G S V D L | 148 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | I V E 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 V S Q P D T G E Q A L E I C D A L A R S G A V D V | 139 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 | I V E 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 V S Q P D T G E Q A L E I C D A L A R S G A V D V | 139 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 | I V E I Y G P E S S G K T T M T L Q A I A Q C Q K A G G T C A F I D A E H A L D P Q Y A R K L G V D I D N L L V S Q P D H G E Q A L E I A D M L V R S G A I D L | 139 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 | I I E I Y G P E S S G K T T M T L Q A I A Q C Q K S G G T C A F I D A E H A L D P Q Y A R K L G V D I D N L L V S Q P D N G E Q A L E I A D M L V R S G A I D L | 139 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 | I V E I Y G P E S S G K T T L 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 D L L V S Q P D T G E Q A L E I T D M L V R S N A V D V | 139 |
| consensus | **!***!!!!*!!!!* ! **! !* ** !***!!!!*!! !!*****!***!!!!*!!!!*!!* * ** !***!* | |

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| NTDB id 600 KW2 RS01765 WP 011675413.1 | | | | | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | IEIEE | | | | 388 |
| NTDB id 228 SPD RS09265 WP 001085462.1 | IEIEE | | | | 388 |
| NTDB id 194 SPR RS08825 WP 001085462.1 | IEIEE | | | | 388 |
| NTDB id 159 SP RS09750 WP 001085462.1 | IEIEE | | | | 388 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | IEIEE | | | | 384 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | IEIEE | | | | 384 |
| NTDB id 453 Spy49 1753c ACI62003.1 | IED.. | | | | 378 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | LED.. | | | | 383 |
| NTDB id 115 BSU 16940 NP 389576.2 | ..... |  |  |  | 348 |
| NTDB id 1166217 AB3Y94 RS04065 WP 367295135.1 | ..... |  |  |  | 373 |
| NTDB id 625 LCA RS02525 WP 011374196.1 | E..... | | | | 355 |
| 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 1022 ACIAD RS06390 WP 004925639.1 | ..... |  |  |  | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 | ..... |  |  |  | 349 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 | ..... |  |  |  | 347 |
| consensus | | | | | |

X non conserved
X similar
X ≥ 50% conserved