

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEEA.ANQKVS	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLAIKQIDKVFGKCALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLAIKQIDKVFGKCALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNI.EVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1066240 ACH3PB RS00860 WP 416397581.1	.....MDNRRKALTAALSQIERQYGKGAVMRMGEK.PREAMPSVSTGSLGLDIALGIGGLPYGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGR	59
consensus	*** ** * ** ** *!***** * ***!***!***! !! **!	

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NTDB id 600 KW2 RS01765 WP 011675413.1
 NTDB id 269 KZH43 RS08665 WP 001085462.1
 NTDB id 228 SPD RS09265 WP 001085462.1
 NTDB id 194 SPR RS08825 WP 001085462.1
 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 1245 Cj1673c YP 002345041.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1130 NGFG RS03960 WP 003688695.1
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 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1066240 ACH3PB RS00860 WP 416397581.1
 NTDB id 1205 PSJM300 05545 AFN77183.1



DEKIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEETTA.SKTKAKAKKEEKAVETEEIELELED... 387
 DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKK.DE...PKKEEA..VNEEVPLDLGDELEI 384
 DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKK.DE...PKKEEA..VNEEVPLDLGDELEI 384
 DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKK.DE...PKKEEA..VNEEVPLDLGDELEI 384
 DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKK.DE...PKKEEA..VNEEVPLDLGDELEI 384
 DEKIGQGSENAKKYLAENPEVFAEIDHQVVRVQFGLIDGEEAAE...SKK.DE...VAQVDS..VNEEVTLDLGDELEI 380
 DEKIGQGSENAKKYLAENPEIFDEIDHQVVRVQFGLIDGEEIAE...SKK.DE...AAQVDS..VNEEVTLDLGDELEI 380
 GEKIGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIEL 381
 GEKIGQGSENAKRYLADHPQLFDEIDRKRVRKFGILLEESEESAMAVASE.....E.....TDDLALDLDNIGIEI 376
 EERLGGGRENAXQFLKENKDIMLMIQEIQIREHYGLDNNGVVQQQAEEETQE.EL.EFE.E..... 348
 SERIGQGRENAKNYLADHEDVEDEVRLKVRVRAAYGISDVPEEDLPTTEDE..QI.NILPDDST.....EE..... 355
 DERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA..... 363
 DKKLGGGRENKAFLENPEIADEITKAIQNSMGIIEGMISG..SEDDEGEE..... 343
 DKKLGGGRENAKALLKEDKALADEITLKI KESIGSNEEIMP..LPDEPLEEME..... 347
 DKKLGGGRENAKALLKEDKALADEITLKI KESIGSNEEIMP..LPDEPLEEME..... 347
 DTKLGGGRDTRVKELIKDNPEIAEELAKIREKLQAK..... 343
 GTKIGQGKNNAVKWLKENPEIADKLEQEI RNTLASNPNSVL..KATASDSNDESDFEFS.....EEEL..... 372
 GAKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITE..GTQDE.....TDGERP.....EE..... 348
 GAKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITE..GTQDE.....TDGERP.....EE..... 348
 GAKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITE..GTQDE.....TDGERP.....EE..... 348
 GERIGQGRDNCREFLRENAELAREIENKVRHLGVTPMGAV..TLAEEVEED..... 352
 GDKIGQGKANACKYLNKENPEIAKTLDKKLREMLLNPNENMQL..IAETSSAADDVEFGAVP.....EEF..... 354
 GDKIGQGKANACKYLNKENPEIAKTLDKKLREMLLNPNENMQL..IAETSSAADDVEFGAVP.....EEF..... 354
 GNKIGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQT..AAH.DETEEEPDLLE.....S..... 349
 GNKIGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGA..VQI..EDEEEDLLL.....ES..... 349
 GDKIGQGKANAAKFLLENPEMLAEIEGKIRDKLLPKPTGPK..AVPEAAEAAAV..... 345
 GSKIGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTK..ATPVAEDLADADI..... 347

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NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
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NTDB id 1205 PSJM300 05545 AFN77183.1	347

consensus

 non conserved
 similar
 ≥ 50% conserved