

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFGDERRKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFGDERKKALDDALKNIEKD FGKGAVMRLGER.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	MDNKRKSLDAALKSLDKT FGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKAIISLAIKQIDKVF GKGA LVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKAIISLAIKQIDKVF GKGA LVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSNPDDKKKALAAVLEKLDKT YGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MED.....GK..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68
NTDB id 215522 LFZ26 RS13800 WP 000963150.1	MAIDENKQKALAAALGQIEKQFGKGSIMRLGED.RSMDVETISTGSLSLDIALGAGGLPMGR	61
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
consensus	*** ** * * * * ! * ! * ! * * * * * *	

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NTDB id 600 KW2 RS01765 WP 011675413.1
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NTDB id 228 SPD RS09265 WP 001085462.1
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NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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consensus

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G E KIGQG KENAKKYLYKENPEIAD EIDDKYRERESGLDREVEEETEEKDEPDEEVENEEVLDLGD EIE	
DEKIGQGAEKAKNYLKEHQDVFEIDHKKVRAAHGLDDSEVAETEETTASKTKAKAKKEEKAVETEEIELELED	387
DEKIGQQSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE . . . PKKEEA . VNEEVPLDLGDELEIE	385
DEKIGQQSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE . . . PKKEEA . VNEEVPLDLGDELEIE	385
DEKIGQQSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE . . . PKKEEA . VNEEVPLDLGDELEIE	385
DEKIGQQSENAKKYLAHDNPEIFDEIDHQRVVFGLIDGEEIAES . . . KKDE . . . AAQVDS . VNEEVTLDLGDELEIE	381
DEKIGQQSENAKKYLAHDNPEIFDEIDHQRVVFGLIDGEEIAES . . . KKDE . . . VAQVDS . VNEEVTLDLGDELEIE	381
GEKIGQQSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAVASE E TDDLALDLNGIEIE	377
GEKIGQQSENAKKFLADNPEIFFDIDHKVRVQYGLIEDNTEEKQSSKEK ETDEK . ADKNLVLELDDTIELE	382
EERLGQGGRENAAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQAEETQEEL.EFE.E	348
SERIGQGGRENAAKYLADHEDVEDEVRLKVRAAYGISDVPEEDLPPTTEDE.QI.NILPDDST EE	355
DERIGQGEKTTIATYIAERPMEQEIHDRVMMAAIRAGNAGEAPALAPAPAPEAA . . EA	363
DKKLGGGRENSKAFLKENPEISDEITKAIQNSMGTIEGM . . . ISGSDDGE . . EE	343
DKKLGGGRENAKALLKEDKALADEITLKIKESIGSNEE . . . IMPLPDEPL . . . EE . ME	347
DKKLGGGRENAKALLKEDKALADEITLKIKESIGSNEE . . . IMPLPDEPL . . . EE . ME	347
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GTKIGQGGKNNNAVWLNKENPEIADKLEQIRNTLTASNPN . . . SVLKATASDSN . . DESDVEEFSESEL	372
GAKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMH . . . ITEG T . . QDETGDGERPEE	348
GAKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMH . . . ITEG T . . QDETGDGERPEE	348
GAKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMH . . . ITEG T . . QDETGDGERPEE	348
GERIGQGGRDNCREFLRENAELAREIENKRVREHLGVTPM . . . GAVTLAE.EVE . . ED	352
GEKIGQGGKANATTWLNKENPATACKIEKRRELLLSNQ . . . ATPDFAVD . . . DSEGVAETNEDF	353
GDKIGQGGKANACKYLNKENPEIAKTLDKKLREMMLNPEN . . . MQLIAETSSAA . DDVEFGAVPEEF	354
GDKIGQGGKANACKYLNKENPEIAKTLDKKLREMMLNPEN . . . MQLIAETSSAA . DDVEFGAVPEEF	354
GSKIGQGGKANAAKYLEENPEIGQIEEQIRAKLLVTSA . . . NTKATPVAEDL . ADADI	347
GNKIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKAS . . . DQTAA.HDETE . . EEPDLLLES	349
GNKIGQGGKNNVIRIFYENNQIAEIERNIEREQLLTGT . . . NGAVQ.I.EDE . . EEPDLLLES	349
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		IEE	
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
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE		384
NTDB id 453 Spy49 1753c ACI62003.1	D..		378
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NTDB id 1313 DR RS12030 WP 010888966.1	...		363
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	...		349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...		349
consensus			

- X non conserved
- X similar
- X ≥ 50% conserved