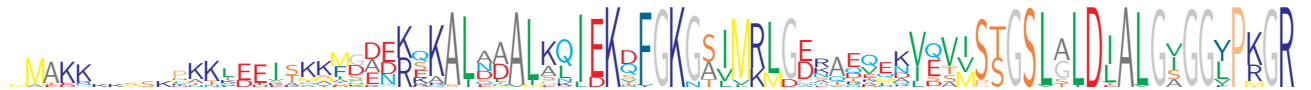


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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGERAEANQ.KVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGDERRKALDDALKNIEKD FGKGAVMRLGERAEQ.KVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGDERKKALDDALKNIEKD FGKGAVMRLGERAEQ.KVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 69049 ACGHIY RS05995 WP 004696404.1	.....MAVDGRQAALDNALKQIEKD FGKGAIMRLGEEAADRMNVEV ISSGSLALDIALVGVGGFPRGR	61
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGKTDTR.ISTVPSGSLALDIALGIGGYPGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEKVDTR.QVSTVSSGSLALDEALGVGGYPGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV..VKQVEPEQKKQALEAALAIKQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIKQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIKQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAIKQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAIKQIEKQFGKGSIMKMGDA.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 1205 PSJM300 05545 AFN77183.1	.....MDENKSRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGR	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 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  
 NTDB id 69049 ACGHIY RS05995 WP 004696404.1  
 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 1214 NCTC11637 00359 SQJ03206.1  
 NTDB id 1211 C694 RS00795 WP 000963128.1  
 NTDB id 1334 RAOC RS04870 WP 004918236.1  
 NTDB id 1389 A4U84 RS07560 WP 021112712.1  
 NTDB id 1130 NGFG RS03960 WP 003688695.1  
 NTDB id 1124 NGFG RS03960 WP 003688695.1  
 NTDB id 1123 OK783 RS03845 WP 003688695.1  
 NTDB id 1427 RS RS02760 WP 011000510.1  
 NTDB id 1165 A1552VC RS01565 WP 000344154.1  
 NTDB id 1142 GTF74 RS11550 WP 000344154.1  
 NTDB id 1022 ACIAD RS06390 WP 004925639.1  
 NTDB id 1074 ABD1 RS10195 WP 000344167.1  
 NTDB id 1205 PSJM300 05545 AFN77183.1

consensus



DEKIGQGA EKAKNYLKEHQDV FDEIDHKVRAAHGL LDDSEVAETEETTASKTKAKAKKEEKAVETEEIELELED . . . . . 387  
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKKDE . . . . PKKEEA . . VNEEVPLDLGDELEIE 385  
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKKDE . . . . PKKEEA . . VNEEVPLDLGDELEIE 385  
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKKDE . . . . PKKEEA . . VNEEVPLDLGDELEIE 385  
 DEKIGQGS ENAKKYLADNPEIFDEIDHQVVRVQFGL IDGEEIAES . . . . KKDE . . . . AAQVDS . . VNEEVTLDLGDELEIE 381  
 DEKIGQGS ENAKKYLADNPEVFAEIDHQVVRVQFGL IDGEEAAES . . . . KKDE . . . . VAQVDS . . VNEEVTLDLGDELEIE 381  
 GEKIGQGS ENAKRYLADHPQLFDEIDRKRVRVKFGL LEESEEEESAMAVASE . . . . . E . . . . . TDDLALDLNGIEIE 377  
 GEKIGQGS ENAKKFLADNPEIFDDIDHKVVRVQYGL IEEDNTEEKQSSKEK . . . . . ETDEK . . ADKNLVLELDDTIELE 382  
 GERMGGQ KEAAKQYLL ENPQIADEIDRI RDTLAVGTEEIDV . . . . . IGEE . . . . . VTEEV . . . . . 346  
 EERLGQGR ENAKQFLKENKDIMLMIQE QIREHYGL DNNGVVQQQAETQEEL . EFE . E . . . . . 348  
 SERIGQGR ENAKNYLADHEDVEDEVRLKVR AAYG I SDVPEEDLPTTEDE . QI . NILPDD . . . . . STEE . . . . . 355  
 DERIGQG KEKTIAYIA ERPPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAPEAA . EA . . . . . 363  
 DKKLGQGR ENSKAFLKENPEIADEITKAIQNSMG IEGMI . . . . . SGSEDD . EG . EE . . . . . 343  
 DKKLGQGR ENAKALLKEDKALADEITLKI KESIGSNEEI . . . . . MPLPDE . PL . EEME . . . . . 347  
 DKKLGQGR ENAKALLKEDKALADEITLKI KESIGSNEEI . . . . . MPLPDE . PL . EEME . . . . . 347  
 DTKLGQGR DTVKELTKDNPELAELEAK IREKLQAK . . . . . 343  
 GTKIGQG KNNAVKWLKENPEIADKLEQEIRNTLASNPN S . . . . . VLKATASDSN . DESDVVEEFSEEL . . . . . 372  
 GAKIGQGD NVRVWLKENPEISDEIDAKIRALNGVEMHI . . . . . TEGTQDETDG . ER . . . . . PEE . . . . . 348  
 GAKIGQGD NVRVWLKENPEISDEIDAKIRALNGVEMHI . . . . . TEGTQDETDG . ER . . . . . PEE . . . . . 348  
 GAKIGQGD NVRVWLKENPEISDEIDAKIRALNGVEMHI . . . . . TEGTQDETDG . ER . . . . . PEE . . . . . 348  
 GERIGQGR DNCREFLRENAELAREIENKVR EHLGVTPMG . . . . . AVTLA . EEVE . ED . . . . . 352  
 GDKIGQGG ANACKY LKENPEIAKTL DKKLREMLLN PENM . . . . . QLIAETSSAA . DDVEFGAVPEEF . . . . . 354  
 GDKIGQGG ANACKY LKENPEIAKTL DKKLREMLLN PENM . . . . . QLIAETSSAA . DDVEFGAVPEEF . . . . . 354  
 GNKIGQGG KNNVIRYFEENNQIAEEIERN IREQLLTKASD . . . . . QTAA . HDETE . EEPDLL . ES . . . . . 349  
 GSKIGQGG ANAAKY LLENPEIGQEIEQQ IRAKLLVTSAN . . . . . TKATPVAEDL . ADADI . . . . . 347

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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
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347

consensus

 non conserved  
 similar  
 ≥ 50% conserved