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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGA	ERDKALADALALIEKDFGKGSIMRLGERAA.NQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK...PKKLDEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK...PKKLDEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFG	DERRKALDDALKNIEKDFGKGAVMRLGERA.EQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEITKKFG	DERRKALDDALKNIEKDFGKGAVMRLGERA.EQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGEKT.DTRISTVPSGSLALDTALGIGGYPGR	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEKV.DTQVSTVSSGSLALDEALGVGGYPGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEKV.DTQVSTVSSGSLALDEALGVGGYPGR	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.S.KLDVQVVSTGSLSLDLALGVGGIPGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.S.KLDVQVVSTGSLSLDLALGVGGIPGR	.....MDNKRKSLDAALKS.LDKTFGKGTILRLGDKE.VEQIDSIGTGSVGLDLALGIGGVPKGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS.LDKTFGKGTILRLGDKE.VEQIDSIGTGSVGLDLALGIGGVPKGR	.....MAIDEDKQKATSLAIKQIDKVFGKGAIVRLGDKQ.VEKIDAIISTGSLGLDLALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLAIKQIDKVFGKGAIVRLGDKQ.VEKIDAIISTGSLGLDLALGIGGVPKGR	.....MAIDEDKQKATSLAIKQIDKVFGKGAIVRLGDKQ.VEKIDAIISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLAIKQIDKVFGKGAIVRLGDKQ.VEKIDAIISTGSLGLDLALGIGGVPKGR	.....MAIDEDKQKATSLAIKQIDKVFGKGAIVRLGDKQ.VEKIDAIISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAIDEDKQKATSLAIKQIDKVFGKGAIVRLGDKQ.VEKIDAIISTGSLGLDLALGIGGVPKGR	.....MAK..TETTSPTDDKKKALAAVLEK.LDKTYGKGTVMKLGDTVDHNI.EVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1427 RS RS02760 WP 011000510.1	.....MAK..TETTSPTDDKKKALAAVLEK.LDKTYGKGTVMKLGDTVDHNI.EVIPSGSLGLDLALGVGGYPKGR	.....MEDG..KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDAE.VEPVQVVSTGSLGLDVALGVGGLPRGR	68
NTDB id 1017652 ABX026 RS00405 WP 025329915.1	.....MEDG..KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDAE.VEPVQVVSTGSLGLDVALGVGGLPRGR	.....MSDEKSKALAAALAQIEKNFGKGSIMKMDGSHTDEN.LEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDEKSKALAAALAQIEKNFGKGSIMKMDGSHTDEN.LEVISTGSLGLDLALGVGGLPRGR	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEEN.LEVISTGSLGLDLALGVGGLPRGR	60
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NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEEN.LEVISTGSLGLDLALGVGGLPRGR	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEEN.LEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEEN.LEVISTGSLGLDLALGVGGLPRGR	.....MAENKKSSKNNT..VVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQTE.QLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MAENKKSSKNNT..VVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQTE.QLDIESVSTGSLGLDLALGIGGLPMGR	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDNR.AMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDNR.AMDVETISTGSLSLDIALGAGGLPMGR	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDNR.AMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDNR.AMDVETISTGSLSLDIALGAGGLPMGR	.....MDENKKRALAAALGQIEKQFGKGAVMRMDHD.RQAIPSIISTGSLGLDIALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDENKKRALAAALGQIEKQFGKGAVMRMDHD.RQAIPSIISTGSLGLDIALGIGGLPKGR	.....MDNKSALQAALSQIEKQFGKNTVMRLGDNT.VQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDNKSALQAALSQIEKQFGKNTVMRLGDNT.VQAVEAVSTGSLTLDIALGIGGLPKGR	.....MDENKSALQAALSQIEKQFGKNTVMRLGDNT.VQAVEAVSTGSLTLDIALGIGGLPKGR	59
consensus	*** **	***! *!*!***** * **!!!*!***!!! **!!!	



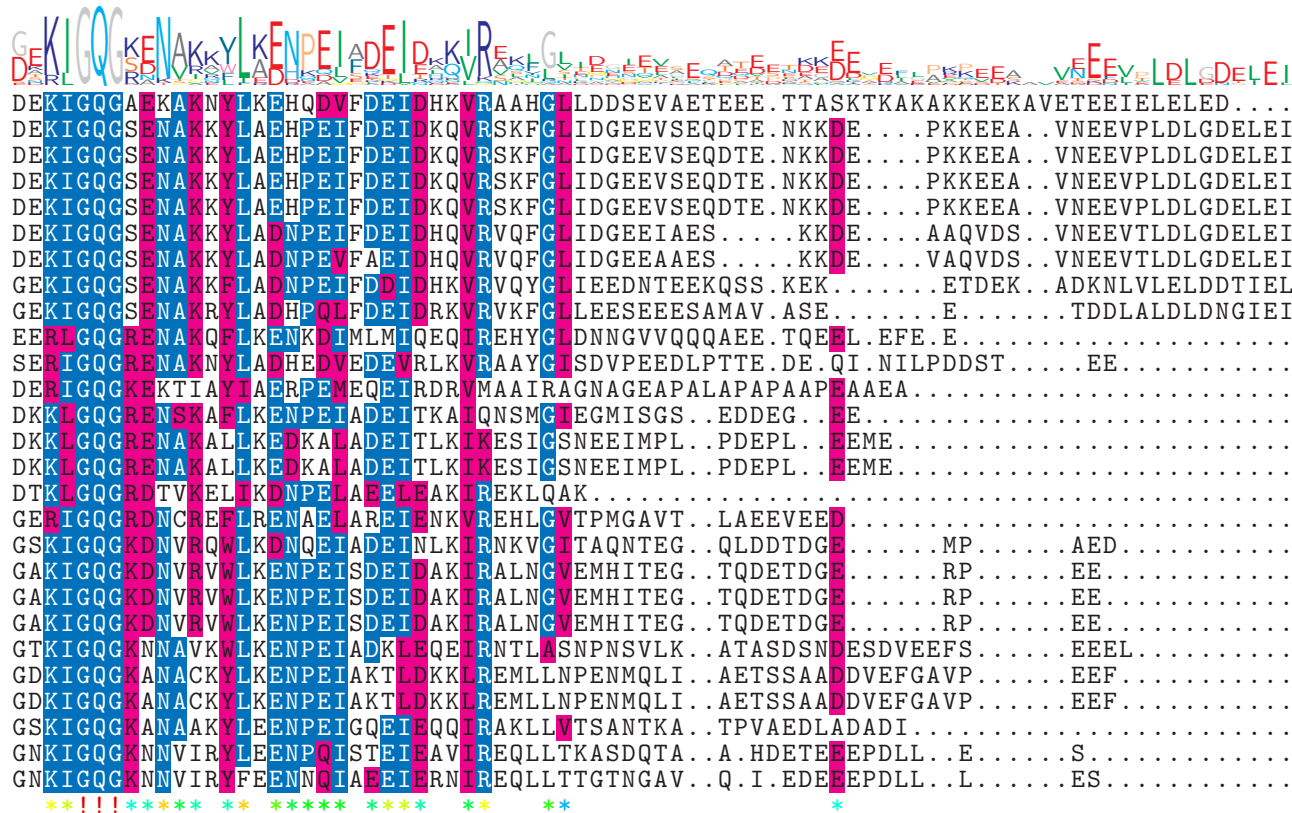




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 NTDB id 194 SPR RS08825 WP 001085462.1  
 NTDB id 159 SP RS09750 WP 001085462.1  
 NTDB id 499 SM12261 RS08315 WP 078228268.1  
 NTDB id 527 SMSK321 RS11065 WP 001085454.1  
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 NTDB id 453 Spy49 1753c ACI62003.1  
 NTDB id 115 BSU 16940 NP 389576.2  
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 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  
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 NTDB id 1389 A4U84 RS07560 WP 021112712.1  
 NTDB id 1165 A1552VC RS01565 WP 000344154.1  
 NTDB id 1142 GTF74 RS11550 WP 000344154.1  
 NTDB id 1205 PSJM300 05545 AFN77183.1  
 NTDB id 1022 ACIAD RS06390 WP 004925639.1  
 NTDB id 1074 ABD1 RS10195 WP 000344167.1

consensus



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NTDB id 600 KW2 RS01765 WP 011675413.1	....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
NTDB id 115 BSU 16940 NP 389576.2	....	348
NTDB id 625 LCA RS02525 WP 011374196.1	....	355
NTDB id 1313 DR RS12030 WP 010888966.1	....	363
NTDB id 1245 Cj1673c YP 002345041.1	....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	....	343
NTDB id 1427 RS RS02760 WP 011000510.1	....	352
NTDB id 1017652 ABX026 RS00405 WP 025329915.1	....	349
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 1389 A4U84 RS07560 WP 021112712.1	....	372
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

X non conserved  
X similar  
X ≥ 50% conserved