

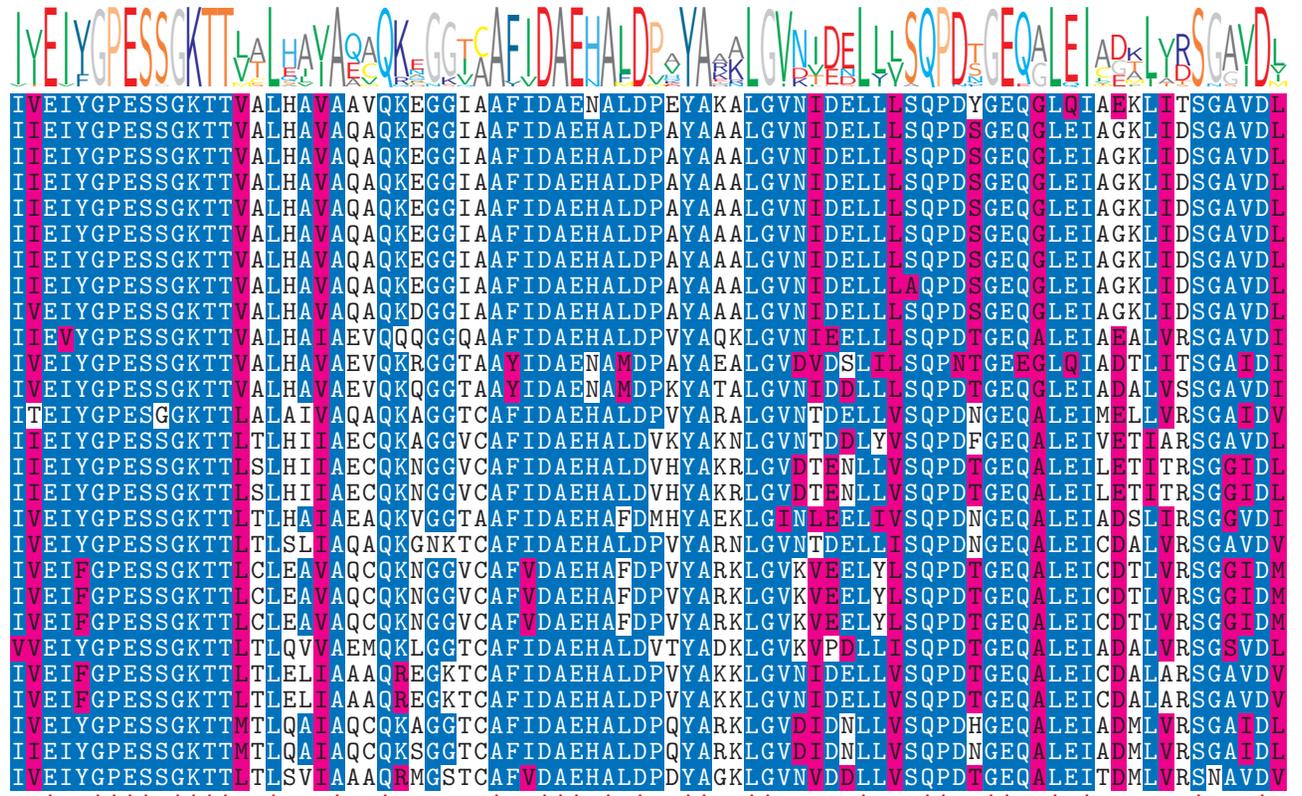
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
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 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGERERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGERERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDIALGIGGYPKGR	58
NTDB id 293021 DKL56 RS02580 WP 109715294.1	.....MAKDEKQAALENALKKIEKNFGKGAVMRMGDK.ADTKISTVPSGSLALDAALGVGGYPKGR	60
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPKGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPKGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF GKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF GKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSFNDDKKKALAAVLEKLDKTYGKGTVMKLG DGTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV.VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K.KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDV ALGVGGLPKGR	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	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSI STGSLGLDIALGIGGLPKGR	59
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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 115 BSU 16940 NP 389576.2
 NTDB id 293021 DKL56 RS02580 WP 109715294.1
 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
 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



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NTDB id 600 KW2 RS01765 WP 011675413.1	AYNDEKIGQGA	EKAKNYLKEHQDV	FDEIDHKVRAAHG	ILDDSEVAETEEETT	ASKTKAKAKKEEKAV	ETEEIELELED..	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	SYKDEKIGQGS	ENAKKYLAEHPEIF	FDEIDKQVRSKFG	LIDGEEVSEQDTEN	KKDE...PKKEEA..	VNEEVPLDLGDEL	382
NTDB id 228 SPD RS09265 WP 001085462.1	SYKDEKIGQGS	ENAKKYLAEHPEIF	FDEIDKQVRSKFG	LIDGEEVSEQDTEN	KKDE...PKKEEA..	VNEEVPLDLGDEL	382
NTDB id 194 SPR RS08825 WP 001085462.1	SYKDEKIGQGS	ENAKKYLAEHPEIF	FDEIDKQVRSKFG	LIDGEEVSEQDTEN	KKDE...PKKEEA..	VNEEVPLDLGDEL	382
NTDB id 159 SP RS09750 WP 001085462.1	SYKDEKIGQGS	ENAKKYLAEHPEIF	FDEIDKQVRSKFG	LIDGEEVSEQDTEN	KKDE...PKKEEA..	VNEEVPLDLGDEL	382
NTDB id 499 SM12261 RS08315 WP 078228268.1	SYKDEKIGQGS	ENAKKYLADNPEIF	FDEIDHQVVRVQFG	LIDGEEIAES...KK	DE...AAQVDS..	VNEEVTLDLGDEL	378
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SYKDEKIGQGS	ENAKKYLADNPEV	FAEIDHQVVRVQFG	LIDGEEAAES...KK	DE...VAQVDS..	VNEEVTLDLGDEL	378
NTDB id 453 Spy49 1753c ACI62003.1	SYNGEKIGQGS	ENAKRYLADHPQL	FDEIDRKRVRVKFG	LEESEESAMAVASE	.....E.....	TDDLALDLNGI	374
NTDB id 408 SMU RS09530 WP 002262392.1	SYNGEKIGQGS	ENAKKFLADNPEIF	DDIDHKVVRVQYGL	IEEDNTEEKQSSKEK	.....ETDEK..	ADKNLVLELDDTI	379
NTDB id 115 BSU 16940 NP 389576.2	SYEEERLGGG	RENAKQFLKENKD	IMLMIQEQIREHYG	LDNNGVVQQAEET	QEELEFEE.....	.....	348
NTDB id 293021 DKL56 RS02580 WP 109715294.1	SYNDERIGQGS	RENAKAYLEEHFD	IYDEIQKVRQAYG	IDEEAIAEREDPEK	VKSKKAKEAENA	AEKEVSEKKKTDN	370
NTDB id 625 LCA RS02525 WP 011374196.1	SYGSERIGQGS	RENAKNYLADHED	VEDEVRLKVRAAYG	ISDVPEEDLPTTE	DEQINILPD..	DSTEE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	SYGDERIGQGS	KEKTIAYIAERP	EMEQEIRDRVMAA	IRAGNAGEAPALAP	APEAAEA.....	.....	363
NTDB id 1245 Cj1673c YP 002345041.1	SYKDKKLGQGS	RENSKAFLENPEI	ADEITKAIQNSMG	TEGMI.....	SGSEDD..EGEE	.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	SYQDKKLGQGS	RENAKALLKEDKA	LADEITLTKESIGS	NEEI.....	MPLPDE..PLEE	ME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SYQDKKLGQGS	RENAKALLKEDKA	LADEITLTKESIGS	NEEI.....	MPLPDE..PLEE	ME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	SYQDTKLGQGR	DTVKELTKDNPEL	AEELEAKIREKLQ	AK.....	.....	.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SYDGTKIGQGS	KNNAVKWLKENPEI	ADKLEQIRNTLAS	SNPNS.....	VLKATASDSNDES	D..VEEFSEEEL	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	SYNGAKIGQGS	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHI.....	TEGTQDETDGER	.....PEE	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	SYNGAKIGQGS	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHI.....	TEGTQDETDGER	.....PEE	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	SYNGAKIGQGS	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHI.....	TEGTQDETDGER	.....PEE	348
NTDB id 1427 RS RS02760 WP 011000510.1	SYNGERIGQGR	DNCREFLRENAEL	AREIENKVRHLGV	TPMG.....	AVTLA..EEVEE	D.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SYNGDKIGQGS	KANACKYLNKENPEI	AKTLDKKLREMLLN	PNEM.....	QLIAETSSAADD	VE..FGAVPEEF	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SYNGDKIGQGS	KANACKYLNKENPEI	AKTLDKKLREMLLN	PNEM.....	QLIAETSSAADD	VE..FGAVPEEF	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SYQGNKIGQGS	KNNVIRYLEENPQ	ISTEIEAVIREQLL	TKASD.....	QTAA.HDETEE	EPD..LL..ES	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SYQGNKIGQGS	KNNVIRYFEENNQ	IAEIEIERNIREQLL	TTGTN.....	GAVQ..I..E	DEEPEP..LL..LES	349
NTDB id 1205 PSJM300 05545 AFN77183.1	AYKGSKIGQGS	KANAAYLLENPEI	GQIEIQQLRAKLL	VTSAN.....	TKATPVAEDL	LADAD..I.....	347
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NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	I	E	I	E	E	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	I	E	I	E	E	384
NTDB id 453 Spy49 1753c ACI62003.1	E	I	E	D	.	.	378
NTDB id 408 SMU RS09530 WP 002262392.1	E	L	E	D	.	.	383
NTDB id 115 BSU 16940 NP 389576.2	348
NTDB id 293021 DKL56 RS02580 WP 109715294.1	370
NTDB id 625 LCA RS02525 WP 011374196.1	355
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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

non conserved
 similar
 ≥ 50% conserved