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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLCER.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLCER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLCER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLCER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLCER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLCER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLCER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....IKKTEEITKKFGDERKALDDALKNIEKDFGKGVMLRGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 1138550 DQM53 RS10630 WP 111717757.1	.MAKK....LKKNEEITKKFGDERKALDDALKNIEKDFGKGVMLRGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGDERKALDDALKNIEKDFGKGVMLRGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGHEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGAE.SKLDVQVVSTGSLSLDIALGVGGYPRGR	58
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSGIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDIALGVGGYPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDENKRRKSLDAALKSLDKTFGKCTILRLCDK.EVEQIDSIGTGSVGLDIALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLATKQIDKVFVGKCALVRLCDK.QVEKIDATSTGSLGLDIALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLATKQIDKVFVGKCALVRLCDK.QVEKIDSISTGSLGLDIALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDKKKALAALVLEKLDKTYGKGTVMKLCGTVVDHNLEVIIPSGSLGLDIALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV..VKQVEPEQKQKALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDIALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDIALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDIALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDIALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDIALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLCDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLCDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDENKSKALQAALSGIEKQFGKNTVMRLCDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSGIEKQFGKNTVMRLCDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRFALAAALGQIEKQFGKGVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGR	59
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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGGQA E KAKNYLKEHQDV F DEIDHKVRAAH G LDDSEVAETE ETTASKTKAKAKKEEKAVETEEIELELED	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGGQ S ENAKKYLAEHP E IFDEIDKQVRSKF G IDGEEVSEQD TENKK D EP KKEEA . . VNEEVPLDLGD	380
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGGQ S ENAKKYLAEHP E IFDEIDKQVRSKF G IDGEEVSEQD TENKK D EP KKEEA . . VNEEVPLDLGD	380
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGGQ S ENAKKYLAEHP E IFDEIDKQVRSKF G IDGEEVSEQD TENKK D EP KKEEA . . VNEEVPLDLGD	380
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGGQ S ENAKKYLAEHP E IFDEIDKQVRSKF G IDGEEVSEQD TENKK D EP KKEEA . . VNEEVPLDLGD	380
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGGQ S ENAKKYLADNP E IFDEIDHQV R VQF G IDGEEIAES KK D EA AQVDS . . VNEEVTLDLGD	376
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGGQ S ENAKKYLADNP E VFA E IDHQV R VQF G IDGEEAAES KK D EV AQVDS . . VNEEVTLDLGD	376
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGGQ S ENAKKFLADNP E IF D IDHKV R VQY G LIEDNTEEKQ SS K E E TDEK . . ADKNLVLELDD	377
NTDB id 1138550 DQM53 RS10630 WP 111717757.1	GEKIGGQ S ENAKRYLADHP E IFDEIDRKV R VKF G LEESKEESAM AVAA E ETDDLVLDLN	372
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGGQ S ENAKRYLADHP Q LFDEIDRKV R VKF G LEESEESAM AVAS E ETDDLALDLN	372
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGGQ R ENAKNYLADHD E VE D VR L KVRAAY G SDVPEEDLPT TEDE . QINI LPDD	351
NTDB id 115 BSU 16940 NP 389576.2	EERIGGQ R ENAK Q ELKEN K D I MLM I QEQ I REHY G DNNGVVQQQA EET Q E L EF E . E .	348
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGGQ K EKT I AY I AER P EME Q E I RDR V MAA T RAGNAGEAPALAPAPAAPEAAEA	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKIGGQ R ENAK A L L KED K AL A DE I TL K IK E SI G SNEEI MPLPDE . . PLE E ME	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKIGGQ R ENAK A L L KED K AL A DE I TL K IK E SI G SNEEI MPLPDE . . PLE E ME	347
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKIGGQ R ENAK A L L KED K AL A DE I TL K IK E SI G SNEEI MPLPDE . . PLE E ME	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKIGGQ R D T V K EL T K D NP E L A E L E A K I REKLQAK	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGGQ K NAV K WL K EN P E I AD K L E Q E I R NT L A S NPNS VLKATASDSND E SDVEE FSEE	370
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGGQ K D N VR V WL K EN P E I S D E I DA K I R AL N C V EMHI TEGTQDET D GER PEE	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGGQ K D N VR V WL K EN P E I S D E I DA K I R AL N C V EMHI TEGTQDET D GER PEE	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGGQ K D N VR V WL K EN P E I S D E I DA K I R AL N C V EMHI TEGTQDET D GER PEE	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGGQ R D N CR E FL R EN A E L ARE I EN K V R EHL C V T PMG AVTLA . EEVE D	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGGQ K AN A CK Y L K EN P E I AK T L D KK L RE M LL N PEN M QLIAETSSAAD D VEFGA VPEE	353
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGGQ K AN A CK Y L K EN P E I AK T L D KK L RE M LL N PEN M QLIAETSSAAD D VEFGA VPEE	353
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGGQ K NN V IR Y L E EN P C I S T E L E AV I RE Q LL T KAS D QTAA . HDETEE P DLL ES .	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGGQ K NN V IR Y F E EN N C I A E I ERN I RE Q LL T T G T N GAV Q . I . EDEE P DLL LES	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGGQ K AN A AK Y L E EN P E I Q E L E Q I RA K LL V TSAN TKATPVAEDLAD I	347
consensus	**!!!** ** * ** ** ** **	*

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NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	ELEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	ELEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	ELEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	ELEIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	ELEIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	ELEIEIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	TIELED..	383
NTDB id 1138550 DQM53 RS10630 WP 111717757.1	GIEIED..	378
NTDB id 453 Spy49 1753c ACI62003.1	GIEIED..	378
NTDB id 625 LCA RS02525 WP 011374196.1	STEE....	355
NTDB id 115 BSU 16940 NP 389576.2	.....	348
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 1389 A4U84 RS07560 WP 021112712.1	EL.....	372
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 1427 RS RS02760 WP 011000510.1	.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	F.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	F.....	354
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