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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK...KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEAA.NQKVSVVSSGSLALDIALGAGGYPKGRIV	76
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NTDB id 228 SPD RS09265 WP 001085462.1	.MAK...KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGRIT	75
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NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEKV.DTQVSTVSSGSLALDEALGVGGYPRGRIV	62
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPRGRIT	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLATIKQIDKVFVGKGAIVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPRGRIT	63
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLATIKQIDKVFVGKGAIVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPRGRIT	63
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLQGT.EQLDIESVSTGSLGLDLALGIGGLPMGRIV	78
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVV	70
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV	61
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIT	61
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRIV	61
consensus	*** **	

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NTDB id 1313 DR RS12030 WP 010888966.1	EIYGPESSGKTTT	154
NTDB id 102241 R2J37 RS09835 WP 316264798.1	EIYGPESSGKTTT	143
NTDB id 600 KW2 RS01765 WP 011675413.1	EIYGPESSGKTTT	156
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIYGPESSGKTTT	155
NTDB id 228 SPD RS09265 WP 001085462.1	EIYGPESSGKTTT	155
NTDB id 194 SPR RS08825 WP 001085462.1	EIYGPESSGKTTT	155
NTDB id 159 SP RS09750 WP 001085462.1	EIYGPESSGKTTT	155
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIYGPESSGKTTT	155
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIYGPESSGKTTT	155
NTDB id 453 Spy49 1753c ACI62003.1	EIYGPESSGKTTT	155
NTDB id 408 SMU RS09530 WP 002262392.1	EIYGPESSGKTTT	155
NTDB id 115 BSU 16940 NP 389576.2	EIYGPESSGKTTT	140
NTDB id 625 LCA RS02525 WP 011374196.1	EIYGPESSGKTTT	142
NTDB id 1245 Cj1673c YP 002345041.1	EIYGPESSGKTTT	141
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NTDB id 1334 RAOC RS04870 WP 004918236.1	EIYGPESSGKTTT	150
NTDB id 1389 A4U84 RS07560 WP 021112712.1	EIYGPESSGKTTT	158
NTDB id 1130 NGFG RS03960 WP 003688695.1	EIYGPESSGKTTT	142
NTDB id 1124 NGFG RS03960 WP 003688695.1	EIYGPESSGKTTT	142
NTDB id 1123 OK783 RS03845 WP 003688695.1	EIYGPESSGKTTT	142
NTDB id 1427 RS RS02760 WP 011000510.1	EIYGPESSGKTTT	150
NTDB id 1165 A1552VC RS01565 WP 000344154.1	EIYGPESSGKTTT	141
NTDB id 1142 GTF74 RS11550 WP 000344154.1	EIYGPESSGKTTT	141
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NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 102241 R2J37 RS09835 WP 316264798.1
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NTDB id 269 KZH43 RS08665 WP 001085462.1
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VDSVAAL	TPKAE	EGDMG	DSL	VLQAR	MSQAL	RKL	TG	IN	KT	NT	LA	FIN	Q	RM	K	IG	MP	ETT	TG	N	AL	KFY	ASV					
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VDSVAAL	VPRAEI	DG	DI	GD	SH	VLQAR	MSQAM	RKL	GA	SIN	KT	KT	IA	IF	IN	Q	RE	K	IG	MP	ETT	TG	GR	AL	KFY	ASV	234	
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VDSVAAL	VPRAEI	DG	DI	GD	SH	VLQAR	MSQAM	RKL	GA	SIN																		

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NTDB id 1313 DR RS12030 WP 010888966.1	RLDVRKIGQ...PTKVGND	AVANTV	IKTVKNKV	APPFKE	VELALV	YGKG	FDQLS	DLVGL	AADMD	IT	KKAGS	FYSY	GDE	309
NTDB id 102241 R2J37 RS09835 WP 316264798.1	RMDIRRTETLTKQGG....EM	VGNHV	RVKIVKNK	IAPPFKE	AEFDIM	FGKG	GISKE	GDIL	DLATN	INLV	NKSGA	WAYA	YNGN	297
NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRGSTKIEEGS.GDNKTQ	IGKITK	IKVVKNKV	APPFKE	VALVDIM	FGEGIS	STGELL	NIAVEE	GIIKK	SGAWF	AYNDE			314
NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIM	YGE	GISK	TGELL	KIASD	LDI	KKAGAW	YSYK	DE	313
NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIM	YGE	GISK	TGELL	KIASD	LDI	KKAGAW	YSYK	DE	313
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NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFKE	AFVEIM	YGE	GISK	TGELL	KIASD	LDI	KKAGAW	YSYK	DE	313
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NTDB id 408 SMU RS09530 WP 002262392.1	RLDVRGNTQIKGTG.EQKDSN	IGKETK	IKVVKNKV	APPFKE	AFVEIM	YGE	GISR	TGELV	KIASD	LGI	QKAGAW	SYNGE		313
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NTDB id 1245 Cj1673c YP 002345041.1	RLDVRKVAT....L.KQNEEP	IGNRVK	VVVKNKV	APPFRA	AEFDVM	FGEGL	SREGE	LIDY	GVKLD	IVDK	SGAWF	SYKDK		296
NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIAS....L.KQNEQH	IGNRAKA	VVVKNKV	APPFRE	AEFDIM	FGE	GISK	EGEIT	IDY	GVKLD	IVDK	SGAWL	SYQDK	298
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNEQH	IGNRAKA	VVVKNKV	APPFRE	AEFDIM	FGE	GISK	EGEIT	IDY	GVKLD	IVDK	SGAWL	SYQDK	298
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRLSDTGKIKDKSGEV	IGNRTKV	VVVKNKV	APPFK	SAEFDIM	YGE	GVS	KVGE	ILDV	ATD	LDI	QKSG	SWFSYQDT	309
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCGV....V.KDGEI	IGSETKV	VVVKNKV	APPFRE	VQFDIM	YGE	GISR	MNELL	ILAE	ANGF	IKKSG	AWFSYDGT		312
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NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGA....V.KEGDEV	GSETR	VVVKNKV	APPFRA	AEFQILY	GKGIY	RNGE	IIDL	GV	QQGL	LVEKSG	AWAY	AYKGS	295
consensus	!***!*	*	**	*****!***!!*!!*!!*!!*	*****!*	*****	*****	***	***	!*	*****!			

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NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIAYIAERP	MEQEIRDRVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363
NTDB id 102241 R2J37 RS09835 WP 316264798.1	KIGQGRENAKKNYLTEHP	DMVELEAKVRAHYHIDGSAAEDDGAEKKEE.....	346
NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGAEKAKKNYLKEHQ	DVDFEIDHKVRAAHGLDDSEVAETEEETTASKTAKAKKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGSSENAKKYLAEHPEI	FDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGSSENAKKYLAEHPEI	FDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGSSENAKKYLAEHPEI	FDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 159 SP RS09750 WP 001085462.1	KIGQGSSENAKKYLAEHPEI	FDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGSSENAKKYLADNPEV	FAEIDHQVRVQFGLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIEIE	383
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NTDB id 453 Spy49 1753c ACI62003.1	KIGQGSSENAKRYLADHP	QLFDEIDRKVRVKFGLLEEESEESAMAVASE.....E.....TDDLALDLNGIEIED.	378
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGSSENAKKFLADNPEI	FDDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED.	383
NTDB id 115 BSU 16940 NP 389576.2	RLGQGRENAKQFLKENK	DIMLMIQEQIREHYGLDNNGVVQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGRENAKKNYLADH	EDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	KLGGGRENSKAFLENPEI	ADEITKAIQNSMGIEGMISGSEDD..EGEE.....	343
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQGGKNNAVKWLKEN	PEIADKLEQEIRNTLASNPNSVLKATASDSNDES.DVEEFS.....EEEL.....	372
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NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKEN	PEISDEIDAKIRALNGVEMHITEGTQDETGER.....P.....EE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGGKDNVRVWLKEN	PEISDEIDAKIRALNGVEMHITEGTQDETGER.....P.....EE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGRDNCREFLR	ENAELAREIENKVREHLGVTPMGAVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGGKANACKYLKEN	PEIAKTLDKKLREMLLNPENMQLIAETSSAADV.EFGAVP.....EEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGGKANACKYLKEN	PEIAKTLDKKLREMLLNPENMQLIAETSSAADV.EFGAVP.....EEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGGKNNVIRYLEEN	PQISTEIEAVIREQLLTKASDQTA..HDETEEEP.DLL..E.....S.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGGKNNVIRYFEEN	NQIAEEIERNIREQLLTTGTNGAVQ..I..EDEEEP.DLL..L.....ES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGGKANAAKYLEEN	PEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI.....	347
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NTDB id 1313 DR RS12030 WP 010888966.1	.	363
NTDB id 102241 R2J37 RS09835 WP 316264798.1	.	346
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NTDB id 159 SP RS09750 WP 001085462.1	E	388
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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	.	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.	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

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 non conserved
 similar
 ≥ 50% conserved