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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK....KKTNFDDITKKYGA	ERDKALADALALIEKDFGKGSIMRLG	E.A	ANQKVS	VSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR			73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR			73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR			73
NTDB id 159 SP RS09750 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR			73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK....KPKKLDEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR			73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK....KPKKLDEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR			73
NTDB id 453 Spy49 1753c ACI62003.1	.MAK....KLKKNEEITKKFG	DERKALDDALKNIEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDIALGAGGYPKGR			73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK....RIKKTEEITKKFG	DERKALDDALKNIEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDIALGAGGYPKGR			73
NTDB id 1045135 ACEPSZ RS08565 WP 395390457.1	.....MA	DERQAALDKALKKIEKDFGKGSIMRLGDN	.SNLNITETVPSGSLALDVALGVGGYPGR			59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAK	DERQAALDAALKKIEKNFGKGSIMRMGEK	.VDTQVSTVSSGSLALDEALGVGGYPGR			60
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQFGKGSIMKLGK	.TDTRISTVPSGSLALDTALGIGGYPGR			58
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAK	ERSKATETAMSQIEKAFGKGSIMKLGAE	.SKLDVQVSTGSLSLDLALGVGGIPGR			72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDLALGIGGVPKGR			59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAID	EDKQKATSLAIKQIDKVFGKCALVRLGDK	.QVEKIDSISTGSLGLDLALGIGGVPKGR			61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAID	EDKQKATSLAIKQIDKVFGKCALVRLGDK	.QVEKIDAISTGSLGLDLALGIGGVPKGR			61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPN	DDKKKALAAVLEKLDKTYGKGTVMKLG	GTVDHNIETVPSGSLGLDLALGVGGYPKGR			68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNTV..VKQVEP	EQKKQALEAALAQIEKQFGKGSIMKLGQT	.EQLDIESVSTGSLGLDLALGIGGLPMGR			76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MS	DDKSKALAAALAQIEKSFGKGAIMKMDGSQ	QEEENLEVISTGSLGLDLALGVGGLPRGR			60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MS	DDKSKALAAALAQIEKSFGKGAIMKMDGSQ	QEEENLEVISTGSLGLDLALGVGGLPRGR			60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MS	DDKSKALAAALAQIEKSFGKGAIMKMDGSQ	QEEENLEVISTGSLGLDLALGVGGLPRGR			60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA	EKQKALAAALAQIEKQFGKGSIMKMGDA	.EVEPVQVSTGSLGLDVALGVGGLPRGR			68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MD	ENKQKALAAALGQIEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDIALGAGGLPMGR			59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MD	ENKQKALAAALGQIEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDIALGAGGLPMGR			59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MD	DNKSKALQAALSQIEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLDIALGIGGLPKGR			59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MD	ENKSKALQAALSQIEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLDIALGIGGLPKGR			59
NTDB id 1205 PSJM300 05545 AFN77183.1MD	ENKRALAAALGQIEKQFGKGAVMRMGDH	.DRQAIPSISTGSLGLDIALGIGGLPKGR			59
consensus		*** ** *	***! *! !*****	*	***! *! !*! !*! !*! !*! !*! !	

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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKIITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGITIKKSGAWFAYN	312
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELKLIASDLDIKKAGAWYSYK	311
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELKLIASDLDIKKAGAWYSYK	311
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELKLIASDLDIKKAGAWYSYK	311
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELKLIASDLDIKKAGAWYSYK	311
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELKLIASDLDIKKAGAWYSYK	311
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELKLIASDLDIKKAGAWYSYK	311
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSNIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDIQKAGAWFSYN	311
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIITYGEGISRTGELVKIASDLGIQKAGAWYSYN	311
NTDB id 1045135	ACEPSZ	RS08565	WP 395390457.1	TVRLEVRRAEQIKDGT....DVIIGNRTRIKVVKNKVAPPFKRAEVDIMYKGGISQTGELLDMAVEKDIDVDKSGSWYSYG	293
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAETIKNGT....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDIINKSGSWYSYG	294
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGSWYSYE	292
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQ....PTKVGNDAVANTVKIKTVKNKVAAPFKEVELALVYGGKGFQDLSDLVGLAADMIDIKKAGSFYSYG	307
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVAT....L.KQNEEPIGNRVKIKVVKNKVAPPFRQAEEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFRQAEEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFRQAEEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRSLSDTGKIKDKSGEVIIGNRTKIKVVKNKVAPPFKSAEEFDIMYGEGVSKVGEIIDVATDLDIQKSGSWFSYQ	307
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGV....V.KDGDEIIGSETKVKVVKNKVAPPFRQVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYD	310
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGS....I.KKGDEVVGNETKIKVVKNKVAPPFRQAEEFDILYAGVSRGEIIDLGVEAKVVEKSGAWYSYN	302
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGA....I.KEGEEVGNETRIKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGA....I.KEGEEVGNETRIKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGQ....V.KEGDEIIGSETKVKVVKNKMAPPFRQAEEFDILYGGKVNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIIGSETKVKVVKNKMAPPFRQAEEFDILYGGKVNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGA....V.KEGDEVVGSSETRVKVVKNKVAPPFRQAEEFDILYGGKIYENGEIIDLGVQQGLVEKSGAWAYK	293
consensus				*!*****!*	* ** *****!!!!!!* * *****!*** ** * * * * * ! ! * * * * !

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEETASKTKAKAKKEEKAVE.....TEEIELELE	386
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLEDGEEVSEQDTENKKDE...PKKEEA..V.....NEEVPLDLG	379
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLEDGEEVSEQDTENKKDE...PKKEEA..V.....NEEVPLDLG	379
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLEDGEEVSEQDTENKKDE...PKKEEA..V.....NEEVPLDLG	379
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLEDGEEVSEQDTENKKDE...PKKEEA..V.....NEEVPLDLG	379
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGSENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAE...SKKDE...VAQVDS..V.....NEEVTLDLG	375
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGSENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEIAE...SKKDE...AAQVDS..V.....NEEVTLDLG	375
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGSENAKRYLADHPQLFDEIDRKRVRVQFGLLEESEESAMAVASE.....E.....TDDLALDLD	371
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGSENAKKFLADNPEVFDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..A.....DKNLVLELD	376
NTDB id 1045135 ACEPSZ RS08565 WP 395390457.1	EDRIGQGRENAKAYLADHPDMAEVNQRVRAAYGVGEGDDADDGKKAAGKDSKPTD.KKDAKADAPKDKSKPEQSELIPD	372
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRENAKNYLADHEDVEDEVRLKVRVRAAYGISDVPEEDLPTTE.....D.....EQINILPD	350
NTDB id 115 BSU 16940 NP 389576.2	EERLGGGRENAKQFLKENKDIMLMIQEIREHYGLDNNGVVQQAEETQEELEFEE.....	348
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAPEAAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGRENSKAFLENPEIADIEITKAIQNSMGIIEGMI.....SGSEDD..EGEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEI.....MPLPDE..PLEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGRENAKALLKEDKALADEITLKI KESIGSNEEI.....MPLPDE..PLEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRDTRVKELIKDNPELAEELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGXNNAVKWLKENPEIADKLEQEI RNTLASNPNS.....VLKATASDSNDESVDVEE...F.....SE	369
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETGER.....PE	347
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETGER.....PE	347
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETGER.....PE	347
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNCREFLRENAELAREIENKVRHGLVTPMG....AVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGKANACKYLYKENPEIAKTLDKKLRREMLLNPNM.....QLIAETSSAADDVEFGA...V.....PE	352
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGKANACKYLYKENPEIAKTLDKKLRREMLLNPNM.....QLIAETSSAADDVEFGA...V.....PE	352
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGXNNVIRYLEENPQISTEIEAVIREQLLTKASD.....QTAH.DETEEEPDLL.....ES	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGXNNVIRYFEENNQIAEIEIERNIREQLLTTGTN.....GAVQ.I.EDEEPPDLL.....LE	348
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGKANAAKYLEENPEIGQIEIQQLRAKLLVTSAN.....TKATPVAEDLADADI.....	347
consensus	**!!!***** ** * *** ***** ** **	

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NTDB id	Accession	Sequence	Position
600	KW2 RS01765 WP 011675413.1	D.....	387
269	KZH43 RS08665 WP 001085462.1	DELEIEIEE	388
228	SPD RS09265 WP 001085462.1	DELEIEIEE	388
194	SPR RS08825 WP 001085462.1	DELEIEIEE	388
159	SP RS09750 WP 001085462.1	DELEIEIEE	388
527	SMSK321 RS11065 WP 001085454.1	DELEIEIEE	384
499	SM12261 RS08315 WP 078228268.1	DELEIEIEE	384
453	Spy49 1753c ACI62003.1	NGIEIED..	378
408	SMU RS09530 WP 002262392.1	DTIELED..	383
1045135	ACEPSZ RS08565 WP 395390457.1	KNKPGK...	378
625	LCA RS02525 WP 011374196.1	DSTEE....	355
115	BSU 16940 NP 389576.2	.....	348
1313	DR RS12030 WP 010888966.1	.....	363
1245	Cj1673c YP 002345041.1	.....	343
1211	C694 RS00795 WP 000963128.1	.....	347
1214	NCTC11637 00359 SQJ03206.1	.....	347
1334	RAOC RS04870 WP 004918236.1	.....	343
1389	A4U84 RS07560 WP 021112712.1	EEL.....	372
1130	NGFG RS03960 WP 003688695.1	E.....	348
1124	NGFG RS03960 WP 003688695.1	E.....	348
1123	OK783 RS03845 WP 003688695.1	E.....	348
1427	RS RS02760 WP 011000510.1	.....	352
1165	A1552VC RS01565 WP 000344154.1	EF.....	354
1142	GTF74 RS11550 WP 000344154.1	EF.....	354
1022	ACIAD RS06390 WP 004925639.1	.....	349
1074	ABD1 RS10195 WP 000344167.1	S.....	349
1205	PSJM300 05545 AFN77183.1	.....	347

consensus

- non conserved
- similar
- ≥ 50% conserved