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NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQ	IEKQ	FGKGSIMKLGEK	.TDTRI	ISTV	SGSLALD	TALG	IGGYPRGR	58		
NTDB id 351954 E3T36 RS01505 WP 002287328.1	MA	DDRKAALDAALKK	IEKS	YGKGSIMKLGEK	.IDQQI	ISTIP	SGSLALD	VALG	VGGYPRGR	59		
NTDB id 625 LCA RS02525 WP 011374196.1	MAK	DERQAALDAALKK	IEKN	FGKGSIMRMGEK	.VDTQV	STVSS	SGSLALD	DEAL	GVGGYPRGR	60		
NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....	KKTNFDDITKKYGA	ERD	KALADALAL	IEKD	FGKGSIMRLGEA	.ANQKV	SVSS	SGSLALD	TALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKV	QVMSS	SGSLALD	TALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKV	QVMSS	SGSLALD	TALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKV	QVMSS	SGSLALD	TALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAK.....	KPKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKV	QVMSS	SGSLALD	TALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK.....	KPKKLDEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKV	QVMSS	SGSLALD	TALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....	KPKKLDEISKKFGA	EREKALND	ALKL	IEKD	FGKGSIMRLGER	.AEQKV	QVMSS	SGSLALD	TALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....	KLKKNEEITKKFG	DERRKALDD	ALKN	IEKD	FGKGAVMRLGER	.AEQKV	QVMSS	SGSLALD	TALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....	RIKKTEEITKKFG	DERKKALDD	ALKN	IEKD	FGKGAVMRLGER	.AEQKV	QVMSS	SGSLALD	TALGAGGYPKGR	73	
NTDB id 1313 DR RS12030 WP 010888966.1	MSK	DATKEISAPTD	AKERSKAT	ETAMSQ	IEKA	FGKGSIMKLGA	E.SKLD	VQVST	TGSLSLD	LALGVGGIPRGR	72	
NTDB id 1245 Cj1673c YP 002345041.1	MD	DNKRKSLDAALKS	LDKT	FGKGTILRLGDK	.EVEQ	IDSIG	TGSVGLD	LALG	IGGVPKGR	59		
NTDB id 1211 C694 RS00795 WP 000963128.1	MAID	EDKQKATISLA	IKQ	IDKV	FGKGALVRLGDK	.QVEK	IDAIST	TGSLGLD	LALGIGGVPKGR	61		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAID	EDKQKATISLA	IKQ	IDKV	FGKGALVRLGDK	.QVEK	IDAIST	TGSLGLD	LALGIGGVPKGR	61		
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..	ETTSNP	DDKKKALAAVLEK	LDKT	YGKGTVMKLG	DGTVDHNI	IEVIPS	SGSLGLD	LALGVGGYPKGR	68		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..	VKQVEP	EQKKQALEAALA	Q	IEKQ	FGKGSIMKLQGT	.EQLD	IESVST	TGSLGLD	LALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	MS	DDKSKALAAALA	Q	IEKS	SFGKGAIMKMDGS	Q	Q	Q	EENLEVIST	TGSLGLD	LALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	MS	DDKSKALAAALA	Q	IEKS	SFGKGAIMKMDGS	Q	Q	Q	EENLEVIST	TGSLGLD	LALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MS	DDKSKALAAALA	Q	IEKS	SFGKGAIMKMDGS	Q	Q	Q	EENLEVIST	TGSLGLD	LALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....	K..KAASMSA	EKQKALAAALA	Q	IEKQ	FGKGSIMKMGDA	.EVEP	VQVST	TGSLGLD	VALGVGGLPRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MD	ENKQKALAAALGQ	IEKQ	FGKGSIMRLGDN	.RAMD	VETIST	TGSLSLD	I	ALGAGGLPMGR	59		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MD	ENKQKALAAALGQ	IEKQ	FGKGSIMRLGDN	.RAMD	VETIST	TGSLSLD	I	ALGAGGLPMGR	59		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MD	DNKSKALQAALSQ	IEKQ	FGKNTVMRLGDN	.TVQ	AVEAVST	TGSLTLD	I	ALGIGGLPKGR	59		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MD	ENKSKALQAALSQ	IEKQ	FGKNTVMRLGDN	.TVQ	AVEAVST	TGSLTLD	I	ALGIGGLPKGR	59		
NTDB id 1205 PSJM300 05545 AFN77183.1	MD	ENKKRALAAALGQ	IEKQ	FGKGAVMRMGDH	.DRQA	IPSIST	TGSLGLD	I	ALGIGGLPKGR	59		
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NTDB id 115 BSU 16940 NP 389576.2	IIEVYGPESGKTTVALHAI	AEVQQQGGQA	AFIDAEHALDPVYAQKLGVN	IEELL	LSQPD	TGEQ	AEIAE	ALV	RS	GA	VDI	138														
NTDB id 351954 E3T36 RS01505 WP 002287328.1	IIEVYGPESGKTTVALHAI	AEVQKNGGTA	AFIDAEHALDPQYAQKLGVN	IDELL	LSQPD	TGEQ	GLEIA	DALV	SS	GA	VDI	139														
NTDB id 625 LCA RS02525 WP 011374196.1	IVEIYGPESGKTTVALHAVA	AEVQKGGTAAY	IDAE	NAMDPKY	ATALGVN	IDDL	LSQPD	TGEQ	GLEIA	DALV	SS	GA	VDI	140												
NTDB id 600 KW2 RS01765 WP 011675413.1	IVEIYGPESGKTTVALHAVA	AAVQKEGGIA	AFIDAE	NALDPEYAKALGVN	IDELL	LSQPDY	GEQGLQIA	EKLIT	SG	AV	DL	154														
NTDB id 269 KZH43 RS08665 WP 001085462.1	IIEIYGPESGKTTVALHAVA	AQAQKEGGIA	AFIDAE	HALDPAYAAA	ALGVN	IDELL	LSQPD	S	GEQ	GLEI	AGKL	ID	SG	AV	DL	153										
NTDB id 228 SPD RS09265 WP 001085462.1	IIEIYGPESGKTTVALHAVA	AQAQKEGGIA	AFIDAE	HALDPAYAAA	ALGVN	IDELL	LSQPD	S	GEQ	GLEI	AGKL	ID	SG	AV	DL	153										
NTDB id 194 SPR RS08825 WP 001085462.1	IIEIYGPESGKTTVALHAVA	AQAQKEGGIA	AFIDAE	HALDPAYAAA	ALGVN	IDELL	LSQPD	S	GEQ	GLEI	AGKL	ID	SG	AV	DL	153										
NTDB id 159 SP RS09750 WP 001085462.1	IIEIYGPESGKTTVALHAVA	AQAQKEGGIA	AFIDAE	HALDPAYAAA	ALGVN	IDELL	LSQPD	S	GEQ	GLEI	AGKL	ID	SG	AV	DL	153										
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IIEIYGPESGKTTVALHAVA	AQAQKEGGIA	AFIDAE	HALDPAYAAA	ALGVN	IDELL	LSQPD	S	GEQ	GLEI	AGKL	ID	SG	AV	DL	153										
NTDB id 499 SM12261 RS08315 WP 078228268.1	IIEIYGPESGKTTVALHAVA	AQAQKEGGIA	AFIDAE	HALDPAYAAA	ALGVN	IDELL	LSQPD	S	GEQ	GLEI	AGKL	ID	SG	AV	DL	153										
NTDB id 453 Spy49 1753c ACI62003.1	IIEIYGPESGKTTVALHAVA	AQAQKEGGIA	AFIDAE	HALDPAYAAA	ALGVN	IDELL	LAQPD	S	GEQ	GLEI	AGKL	ID	SG	AV	DL	153										
NTDB id 408 SMU RS09530 WP 002262392.1	IVEIYGPESGKTTVALHAVA	AQAQKDG	GIAAFIDAE	HALDPAYAAA	ALGVN	IDELL	LSQPD	S	GEQ	GLEI	AGKL	ID	SG	AV	DL	153										
NTDB id 1313 DR RS12030 WP 010888966.1	ITEIYGPESGKTTLALAI	VAQAQKAGGTC	AFIDAE	HALDPVYARALGVN	TDELL	VSQPD	N	GEQ	AEI	ME	ELL	V	RS	GA	ID	V	152									
NTDB id 1245 Cj1673c YP 002345041.1	IIEIYGPESGKTTTLHI	IAECQKAGGVC	AFIDAE	HALDVKYAKNLGVN	TDDLY	VSQPD	F	GEQ	AEI	IVETI	ARS	GA	VD	DL	139											
NTDB id 1211 C694 RS00795 WP 000963128.1	IIEIYGPESGKTTLSLHI	IAECQKNGGVC	AFIDAE	HALDVHYAKRLGVD	TENLL	VSQPD	T	GEQ	AEI	ILETIT	RS	GG	ID	DL	141											
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IIEIYGPESGKTTLSLHI	IAECQKNGGVC	AFIDAE	HALDVHYAKRLGVD	TENLL	VSQPD	T	GEQ	AEI	ILETIT	RS	GG	ID	DL	141											
NTDB id 1334 RAOC RS04870 WP 004918236.1	IVEIYGPESGKTTTLTHAI	IAEAQKVGGTA	AFIDAE	HA	FDMHYAEKLG	INLEEL	IV	SQPD	N	GEQ	AEI	ADSL	TR	SG	GV	DI	148									
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IVEIYGPESGKTTTLTSLI	IAQAQKGNKTC	AFIDAE	HALDPVYARNLGVN	TDELL	ISQPD	N	GEQ	AEI	ICD	AL	V	RS	GA	VD	V	156									
NTDB id 1130 NGFG RS03960 WP 003688695.1	IVEIFGPESGKTTLCLEA	VAQCQKNGGVC	AFVDAE	HA	FDPVYARKLG	VKVEELY	LSQPD	T	GEQ	AEI	ICDTL	V	RS	GG	ID	M	140									
NTDB id 1124 NGFG RS03960 WP 003688695.1	IVEIFGPESGKTTLCLEA	VAQCQKNGGVC	AFVDAE	HA	FDPVYARKLG	VKVEELY	LSQPD	T	GEQ	AEI	ICDTL	V	RS	GG	ID	M	140									
NTDB id 1123 OK783 RS03845 WP 003688695.1	IVEIFGPESGKTTLCLEA	VAQCQKNGGVC	AFVDAE	HA	FDPVYARKLG	VKVEELY	LSQPD	T	GEQ	AEI	ICDTL	V	RS	GG	ID	M	140									
NTDB id 1427 RS RS02760 WP 011000510.1	VVEIYGPESGKTTTLTQV	VAEMQKLG	GTC	AFIDAE	HALDVTYADKLGVK	VPD	LLISQPD	T	GEQ	AEI	ADAL	V	RS	GS	V	DL	148									
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IVEIFGPESGKTTTLLEL	IAAAQREGKTC	AFIDAE	HALDPVYAKKLGVN	IDELL	VSQPD	T	GEQ	AEI	ICD	AL	AR	S	GA	VD	V	139									
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IVEIFGPESGKTTTLLEL	IAAAQREGKTC	AFIDAE	HALDPVYAKKLGVN	IDELL	VSQPD	T	GEQ	AEI	ICD	AL	AR	S	GA	VD	V	139									
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IVEIYGPESGKTTMTLQAI	AQCQKAGGTC	AFIDAE	HALDPQYARKLG	V	IDNLL	VSQPD	H	GEQ	AEI	ADML	V	RS	GA	ID	L	139									
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IIEIYGPESGKTTMTLQAI	AQCQKSGGTC	AFIDAE	HALDPQYARKLG	V	IDNLL	VSQPD	N	GEQ	AEI	ADML	V	RS	GA	ID	L	139									
NTDB id 1205 PSJM300 05545 AFN77183.1	IVEIYGPESGKTTTLT	LSVIAAAQRM	GSTC	AFVDAE	HALDPDYAGKLGVN	VDDLL	VSQPD	T	GEQ	AEI	ITDML	V	RS	NA	VD	V	139									
consensus	**!*!!!!*!!!!* ! **!											!* ** !***!!!!*!* *!						!!*****!***!!!!*!!!!*!*! *						** !***!* *		

NTDB id 115 BSU 16940 NP 389576.2
NTDB id 351954 E3T36 RS01505 WP 002287328.1
NTDB id 625 LCA RS02525 WP 011374196.1
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 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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 RA0C 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
consensus



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NTDB id 115 BSU 16940 NP 389576.2	SVRLDVRRAEQLKQGN....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGGEGISKEGEIIDLGTELDIVQKSGSWYSYE	292
NTDB id 351954 E3T36 RS01505 WP 002287328.1	TIRLEVRRRAEQLKQGT....DIVGNRTKIKVVKNKVAPPFKIAEVDVMYGLGISQEGELLDMAVEKDIDVSKSGAWYSYK	293
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRRAETIKNGT....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDIIKNSGWSYSYG	294
NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKIITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGITKKSGAWFAYN	312
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGGEGISKTGELLKIASDLDIKKKAGAWYSYK	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGGEGISKTGELLKIASDLDIKKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGGEGISKTGELLKIASDLDIKKKAGAWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGGEGISKTGELLKIASDLDIKKKAGAWYSYK	311
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGGEGISKTGELLKIASDLDIKKKAGAWYSYK	311
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGGEGISKTGELLKIASDLDIKKKAGAWYSYK	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSSIGKETKIKVVKNKVAPPFKVAEVEIMYGGEGISRTGELVKIASDLDIQKAGAWFSYN	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIITYGGEGISRTGELVKIASDLGITQKAGAWYSYN	311
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGNDAAVANTVKIKTVKNKVAAPFKEVELALVYGKGFQDLSDLVGLAADMDIKKKAGSFYSYG	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKIVAT....L.KQNEEPIGNRVKVVKNKVAPPFRQAEDVDMFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEVIGNRTKVVVVKNKVAPPFKSAEFDIMYGGEGVSKVGEILDVATDLDIQKSGSWFSYQ	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDIEIGSETKVVVVKNKVAPPFREVQFDIMYGGEGISRMNELLILAEANGFIKKKSGAWFSYD	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVRKVIKNKVAPPFRQAEDDILYGGEGISWEGELIDIGVKNDDIINKSGAWYSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVRKVIKNKVAPPFRQAEDDILYGGEGISWEGELIDIGVKNDDIINKSGAWYSYN	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVRKVIKNKVAPPFRQAEDDILYGGEGISWEGELIDIGVKNDDIINKSGAWYSYN	294
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGEDEVVGNETKVVVVKNKVAPPFREAIFFDILYGAGVSREGEIIDLGVKAKVVEKSGAWYSYN	302
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEIVGSETKVVVVKNKMAPPFREAIFFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIVGSETKVVVVKNKMAPPFREAIFFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEVVGSETRVRVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWAYK	293
consensus	***!***!* * ** *****!*****!*****! * * *****!*!***** ***** ** ***** ! !*****!	

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NTDB id 115 BSU 16940 NP 389576.2	EERIGQGRENAAKQFLKENKDIIMLMIQEQIREHYGLDNNGVVQQQAETQEEL.....EFEE.....	348
NTDB id 351954 E3T36 RS01505 WP 002287328.1	EDRIGQGRENAAKIYMANHPEMMAEVSALVRAAYGIGEEVAVPEDEKG.QEEL.....PLVEE.....	349
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRENAAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPSTE.DEQI.....NILPDDSTEE..	355
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLDDSEVAETEEETTASHTKAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGSENAACKYLAEHPEIFDEIDKQVRSKFGFLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSENAACKYLAEHPEIFDEIDKQVRSKFGFLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGSENAACKYLAEHPEIFDEIDKQVRSKFGFLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGSENAACKYLAEHPEIFDEIDKQVRSKFGFLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGSENAACKYLADNPEVFAEIDHQVRVQFGLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGSENAACKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGSENAACKYLADHPQLFDEIDRKVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGSENAACKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGRENSKAFLKENPEIADAITKAIQNSMGIEGMI....SGSEDD..EGEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRENAKALLKEDKALADEITLKIKEISGSNEEI....MPLPDE..PLEEM.....E.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGRENAKALLKEDKALADEITLKIKEISGSNEEI....MPLPDE..PLEEM.....E.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRDITVKELIKDNPELAEELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNS....VLKATASDSNDES.....DVEEFSEEL...	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGDGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGDGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGDGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNCREFLRENAELAREIENKVREHLGVTPMG....AVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKANACKYLLKENPEIAKTLDDKKLREMLLNPNENM....QLIAETSSAADDV.....EFGAVPEEF....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKANACKYLLKENPEIAKTLDDKKLREMLLNPNENM....QLIAETSSAADDV.....EFGAVPEEF....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTGASD....QTAA.HDETEEEP.....DLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTGASD....GAVQ.I.EDEEEP.....DLL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN....TKATPVAEDLADA.....DI.....	347
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NTDB id 1074	ABD1 RS10195 WP 000344167.1	...	349
NTDB id 1205	PSJM300 05545 AFN77183.1	...	347
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- X non conserved
- X similar
- X ≥ 50% conserved