

Rickettsiales- Signature (XerD Integrase)

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		163	IFSVLGK	213
Rickettsiales	Ri. prowazekii	15604228	LYASGLRVSELVSLKLADILTNNSTSGKTVRK	GNKERVIVINDQA
	Ri. conorii	15892414	-----K-----E-----	-----E--
	Ri. akari	52698797	-----S-----K-----E-----	-----E--
	Ri. sibirica	28261969	-----K-----E-----	-----E--
	Ri. rickettsii	42453629	-----K-----E-----	-----E--
	Ri. typhi	51473554	-----I-----	-----E--
	Ehr. canis	46308951	--S-I-I---C--FYSV-EALKDHNAEIIY	HIKIK--A---IVLL-LS-
	Wolbachia (Dros. endo)	42520949	--S-M-----I-M--CEVSHLIN-NNKECY	IIIK--SGR--Q-LF-E--
	A. tumefaciens	17937336	---T-M-----PVKVLREQEGRFLMIRG	---D-MVLLSRA-
	Other Alpha Proteobacteria	Bart. quintana	49474798	---T---I-----PVQAVRGKEY-ILVRG-
Bart. henselae		149476286	---T---I-----PVQAVRGKDY-ILVRG-	-K---MVLLSKK-
Ca. crescentus		16127236	I-----I---LA-P-LALARDPAYLIVKG-	-G---LAPL--A-
Rhodopseud. palustris		39933583	---T-----P-SAARRDARMIVVRG-	-D---LVPL-AG-
Rhodo. rubrum		48766572	--ST-----P-SVANRDPETILVRG-	-D---LVPLGLP-
Brad. japonicum		27375301	---T-----A-PRTAAKRDARMIVVRG-	----LVPL-EAS
Sino. meliloti		15966434	---T-M-----PASVLAQ-GRFLIIRG-	----LVPLSQA-
Mesorhizobium sp. BNC1		45917019	-----P-RVA-RDERFFTVRG-	-G---MVPLSAK-
Bru. suis		23502879	---T-----G-PVTVAR-DHRFLLVRG-	-S-D-MVPLSRK-
Bru. melitensis		17986324	---T-----G-PVTVAR-DHRFLLVRG-	-S-D-MVPLSRK-
Rho. sphaeroides		22959769	---T-M---M-G-PV-AARG-PRMILVRG-	-G---MVPLSPP-
Meso. loti MAFF303099		13473085	---T-----G-PVTVAQRDDRRFFMVRG-	-D---MVPLSAK-
Silicibacter sp. TM1040		52012038	---T-M-----PVSATRQDPNMLLILG-	-G---MVPLSPP-
Mag. magnetotacticum		46201486	---T-----P-SAVARDPNVLVVRG-	-S---MVPLS-P-
Novo. aromaticivorans		48849335	--G---AT----P--A-PRDAPLLTITG-	-GVQ-MVPVSAR-
E. coli		16130796	---T-----G-TMS--SLRQGVVVRVIG-	----LVPLGEE-
Vib. cholerae		9656993	---T---T-----TMENMSLRQGVVVRVMG-	-G---LVPMGEN-
Xan. axonopodis		21241407	F-S---L---CA-RWR-LDLDLGLVMVLG-	-S-Q-LVPVGS-
Nit. europaea		30249429	---A-----G-SISQ-RQDMGVVIRILG-	-S---L-PLGEE-
Other Bacteria		Myx. xanthus	27804830	---T-----CG-GIN-VQLTAGYLVAKG-
	Geo. sulfurreducens	39996918	---T-----G-RTR-VN-SAGYLM--G-	-E---LVPMGES-
	Bdello. bacteriovorus	42523751	--GL-C----IG-NVV-FNQTDRIKVLG-	----LVPLTEKL
	Chl. trachomatis	15605070	F-S---I--ITA-NR--DFQSHLLHIRG-	-K---IVPMTKV-
	Cb. tepidum	21673437	---T-V-----LG-SRLNLHMDDGFVRFVFG-	-S---LVPVGQT-
	Bac. subtilis	16079408	---T-I---MIE--T--VHLSMGFIRCFG-	-R---IVP-GEA-
	Sta. aureus	9622620	---T-M-----IH-E-ENVNLIMGFVRFVFG-	-D---IVPLG-AV