S3 Table. RgsP and RgsM are mainly conserved in related species from the order Rhizobiales.

	RgsM P_010970071.1 _001328163.1 P_014329503.1 C92501.1
	P_010970071.1 _001328163.1 P_014329503.1
Sinorhiziobium meliloti Rm2011 100 100 970 646 RxxDGGDQFEAL HxxxDHHxH WP_010968917.1 W	_001328163.1 P_014329503.1
	P_014329503.1
Sinorhizobium (taxid:28105) 41 34 Sinorhizobium medicae WSM419 97 96 970 646 RxxDGGDQFEAL HXXXDHHXH YP_001326224.1 YP_00132624.1 YP_00132624.1 YP_00132624.1 YP_00132624.1 YP_	_
Sinorhizobium fredii HH103 95 88 970 651 RxxDGGDQFEAL HXXXDH.HxH WP_014327607.1 WI	C02501 1
Rhizobium (taxid:379) >50 >50 Rhizobium etli CFN42 80 70 970 640 KxxDAGDQFEAL HxxxDHH wP_042118012.1 AB	C32301.1
Agrobacterium (taxid:357) 40 >50 Agrobacterium tumefaciens C58 78 65 971 648 KxxD_GGDEF_EAL HxxxD_HLHXH WP_006309835.1 NP WP_006309835.1 N	_356470.1
Mesorhizobium (taxid:68287) >50	_080511860.1
Brucella (taxid:234) 28 22 Brucella abortus 104M 63 52 964 651 KxxDSSDQFEAL HXXXDHx.H WP_054173960.1 AL	F30205.1
Brucella (taxid:234) 28 22 Brucella abortus 104M 63 52 964 651 KxxD_SSDQF_EAL HXXXD_H_HXH WP_054173960.1 AL Bartonella (taxid:773) >50 >50 Bartonella henselæ str. Houston-1 50 42 961 668 NxxD_SADRF_ETI HXXXD_H_HXH WP_011180379.1 PN Bradyrhizobium (taxid:407) >50 >50 Berdyrhizobium japonicum USDA110 56 34 959 681 RxxD_AGOQF_EAL HXXXD_H_HXH WP_015927027.1 WB Azorhizobium (taxid:374) >50 >50 Berdyrhizobium japonicum USDA110 56 34 958 684 RxxD_AGOQF_EAL HXXXD_H_HXH WP_015927027.1 WB Azorhizobium (taxid:374) >50 >50 Berdyrhizobium japonicum USDA110 56 34 958 684 RxxD_AGOQF_EAL HXXXD_H_HXH WP_015927027.1 WB Azorhizobium (taxid:374) >50 >50 Berdyrhizobium japonicum USDA110 56 34 958 684 RxxD_AGOQF_EAL HXXXD_H_HXH WP_015927027.1 WB Azorhizobium (taxid:31073) 19 14 Rhodopseudomonas palustris TIE-1 56 36 959 676 RxxD_AGOQF_EAL HXXXD_H_HXH WP_01592702.1 WB Azorhizobium taxid:310 20 6 Hyphomicrobium taxid:310 30 10 10 10 10 10 10 10 10 10 10 10 10 10	M38919.1
Methylobacterium (taxid:407) >50 >50 Methylobacterium nodulans ORS 2060 54 34 959 681 RXXDAGDELEAL HXXXDHHXH WP_015927027.1 WI	_015932251.1
	D87069.1
Azorhizobium (taxid:6) 2 5 Azorhizobium caulinodans ORS 571 52 37 965 673 KxxD_SGDQF_EAF HXXXD_HLHXH WP_012169020.1 BA Rhodopseudomonas (taxid:1073) 19 14 Rhodopseudomonas palustris TIE-1 56 36 959 676 KxxD_AGDQF_EAL HXXXD_HLHXH WP_011156449.1 WI HXXXD_HLHXH WP_020084480.1 WI Rhodopseudomonas (taxid:204455) >50 550 Labrenzia suaedae DSM 22153 57 39 969 657 GxxD_NGDQY_EVL HXXXD_HLHXH WP_073010793.1 WI Rhodopseudomonadles (taxid:204458) 0 0 Rickettsiales (taxid:204457) 0 0 0	F90194.1
Azorhizobium (taxid:6) 2 5 Azorhizobium caulinodans ORS 571 52 37 965 673 KXXD_SGDF_EAF HXXXD_H.H.HXH WP_012169020.1 BA Rhodopseudomonas (taxid:1073) 19 14 Rhodopseudomonas palustris TIE-1 56 36 959 676 KXXD_AGDQF_EAF HXXXD_H.H.HXH WP_012169020.1 BA Hyphomicrobium (taxid:81) 20 6 Hyphomicrobium zavarzinii 41 32 1290 680 GXXD_SGDRF_EAV HXXXD_H.H.HXH WP_02084480.1 WI	2_011159965.1
Hyphomicrobium (taxid:81) 20 6 Hyphomicrobium zavarzinii 41 32 1290 680 GxxD_SGDRF_EAV HxxxD_HHxH WP_020084480.1 WI	2_020084044.1
Rhodobacterales (taxid:204455) >50 >50 Labrenzia suaedae DSM 22153 57 39 969 657 GxxDNGDQYEVL HXXXDHHXH WP_073010793.1 WI	2_073014857.1
Caulobacterales (taxid:204458) 0 0	
Rickettsiales (taxid:766) 0 0	
Rhodospirillales (taxid:204441) 0 0	
Pelagibacterales (taxid:54526) 0 0	
Holosporales (taxid:1921002) 0 0	
Betaproteobacteria (taxid:28216) 0 0	
	Q14393.1
Deltaproteobacteria (taxid:28221) 0 0	
Gram-positive bacteria (taxid:1239) 0 0	