

Supplemental Table S2. Primers used in this study

Gene	Predicted Protein Function	Taxa	Primer ID	Sequence 5'-3'	Source
K02390	flagellar hook protein FlgE	<i>Roseburia</i>	Roseburia_UniRef50_G2T3E1_F	TGGTAACAATATCGCCAACG	This study
K02406	flagellin	<i>Roseburia intestinalis</i>	Roseburia_UniRef50_G2T3E1_R	ACCGGTCGTAACACCAAGAC	This study
			Roseburia_intestinalis_D4L1N7_F	GCATCGATGGAACGGCTTTC	This study
		Roseburia_intestinalis_D4L1N7_R	TTCACTCAGCGCACCATCT	This study	
		<i>Roseburia intestinalis</i>	Roseburia_intestinalis_P21991andQ39_YI9_F	GCGCACAGGCAAAATCTTCA	This study
			Roseburia_intestinalis_P21991andQ39_YI9_R	AATCCACGGATCTGGCTTCT	This study
		<i>Roseburia hominis</i>	Roseburia_hominis_G2T5W2_F	ATTGGATGACGTGGCGAACT	This study
			Roseburia_hominis_G2T5W2_R	CCGGCAGAATCTGTCTTGGT	This study
K06933	uncharacterized protein	<i>Methanobrevibacter smithii</i>	M_smithi_A5UJN4_F	TGCGAAGACTGTGGTTTTCA	This study
			M_smithi_A5UJN4_R	CAGCTGCAGGTGTCATCTGA	This study
K14081	methanol corrinoid protein	<i>Methanobrevibacter smithii</i>	M_smithi_UniRef50_Q2NHM9_F	TGTGGTGGAGGAGCTGTAAG	This study
			M_smithi_UniRef50_Q2NHM9_R	CGGTACGAATCCCCTACAA	This study
<i>rpoB</i>	RNA polymerase, beta subunit	<i>Roseburia hominis</i>	Rhominis_rpoB_F	CCGGTGTGTTGAGAGCTCT	This study
			Rhominis_rpoB_R	AACACGATCGGCTTCTGGTT	This study
<i>rpoB</i>	RNA polymerase, beta subunit	<i>Roseburia intestinalis</i>	Rintestinalis_rpoB_F	TGTTCTGGTGTCCGGTGATG	This study
			Rintestinalis_rpoB_R	TCTCACCGAAAATCGCACGA	This study
<i>rpoB</i>	RNA polymerase, beta subunit	<i>Methanobrevibacter smithii</i>	Ms_rpoB_F	AAGGGATTTGCACCCAACAC	(1)
			Ms_rpoB_R	GACCACAGTTAGGACCCTCTGG	(1)

Reference

1. Dridi B, Henry M, El Khechine A, Raoult D, Drancourt M. 2009. High prevalence of *Methanobrevibacter smithii* and *Methanosphaera stadtmanae* detected in the human gut using an improved DNA detection protocol. *PLoS one* 4:e7063.