

AMB Express

Multidisciplinary evaluation of plant growth promoting rhizobacteria on soil microbiome and strawberry quality

Jun Haeng Nam, Alyssa Thibodeau, Yanping L. Qian, Michael C. Qian, Si Hong Park*

Department of Food Science and Technology, Oregon State University, 3051 SW Campus Way, Corvallis, OR 97331, USA

***Corresponding author**

Si Hong Park, Ph.D., Assistant Professor, Department of Food Science and Technology, Oregon State University, 3051 SW Campus Way, Corvallis, OR 97331; Tel: 541-737-1684; Fax: 541-737-1877; E-mail: sihong.park@oregonstate.edu

Table S1. Nucleotide sequences of primer pairs used in this study

Species	Primer	Sequence	Amplicon size (bp)	Target gene	Reference
<i>B. subtilis</i>	yticP-f	GCTTACGGGTTATCCCGC	480	<i>yticP</i>	Kwon et al. 2009
	yticP-r	CCGACCCCATTTCAGACATATC			
<i>B. amyloliquefaciens</i>	amyE-f	ACAAGTTAGTCACATGGGTG	800	<i>amyE</i>	Wu et al. 2014
	amyE-r	TGCGGAAGATAACCATTCAAAC			
<i>P. monteilii</i>	glnK-f	GTCACAGCCATCATCAAGCC	150	<i>glnK</i>	In this study
	glnK-r	CGACCACATATTCAGCACCG			

Table S2. The thermocycler conditions for PCR assay used in this study

	<i>B. subtilis</i>		<i>B. amyloliquefaciens</i>		<i>P. monteilii</i>	
	Temperature	Time	Temperature	Time	Temperature	Time
Pre-denaturation	94 °C	5 min	94 °C	5 min	94 °C	5 min
Denaturation	94 °C	30 s	94 °C	30 s	94 °C	1 min
Annealing	50 °C	1 min	50 °C	1 min	53 °C	30 s
Extension	72 °C	30 s	72 °C	1 min	72 °C	30 s
Number of cycles	35		30		40	
Final extension	72 °C	5 min	72 °C	1 min	72 °C	5 min