Supplementary Materials

Table S1: Information about primers used for qPCR in this study;

Table S2: Results of three-way ANOVA;

Figure S1: The standard curve for converting cycle threshold (Ct) values to the concentration of *Acidovorax citrulli* cells, using quantitative real-time PCR (qPCR);

Figure S2:The standard curve for converting cycle threshold (Ct) values to the concentrations of *Acidovorax citrulli* strains pslb65 and Aac5 using quantitative real-time PCR.

Table S1 Information about primers used for qPCR in this study

Primer name	Primer sequence（5′-3′）	Product length	Purpose
65-*pilA*-18-L	CTATGACATGATTACGAATTCGAAGGGGCGAAGGACCAG	599 bp	Clone the pslb65 *pilA* gene fragment
65-*pilA*-18-R	ACGACGGCCAGTGCCAAGCTTCCGCCACAGGTCCATTCA		
A5-*pilA*-18-L	CTATGACATGATTACGAATTCAATTGTCACTCCCGCCCG	592 bp	Clone the Aac5 *pilA* gene fragment
A5-*pilA*-18-R	ACGACGGCCAGTGCCAAGCTTGCCAACTTGCTGCCCCAT		
18F	CAGGAAACAGCTATGAC	—	pK18 plasmid sequencing
18R	GTAAAACGACGGCCAGT		
pslb65-F	CCGAGCAGGTTCAAAGCA	138 bp	qPCR of pslb65 *pilA*
pslb65-R	TCACGCCGTTGTCAGTAG		
AAC00-1-F	CCATCACGGAAATCTATCAA	95 bp	qPCR of Aac5

AAC00-1-R	CACATACTTACTGGTGGACGA	*pilA*

Note: The restriction enzyme sites were underlined

Table S2 Results of three-way ANOVA

Sourse	Df	Square sum	Mean square	F value	Pr>F
Group	1	10.84604444	10.84604444	6.31	0.0199
Strains	4	92.00435556	23.00108889	13.38	<0.0001
Host	1	7.91484444	7.91484444	4.60	0.042
Group * host	1	44.71151111	44.71151111	26.0	<0.0001

Note：R^2 =0.813643.

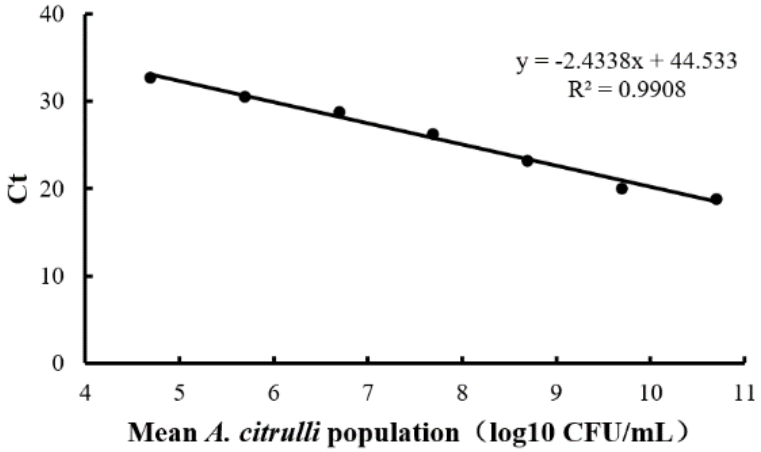

Figure S1. The standard curve for converting cycle threshold (Ct) values to the concentration of *Acidovorax citrulli* cells, using quantitative real-time PCR (qPCR). A 10 μL pslb65 suspension from ten-fold serial dilutions was spread on King's B agar plate amended with ampicillin to calculate the number of colonies. qPCR was conducted using an *A. citrulli*-specific assay to obtain the Ct values. The experiment was performed three times. Linear regression was conducted and the equation for the regression line was used to calculate $\log_{10}$CFU/mL.

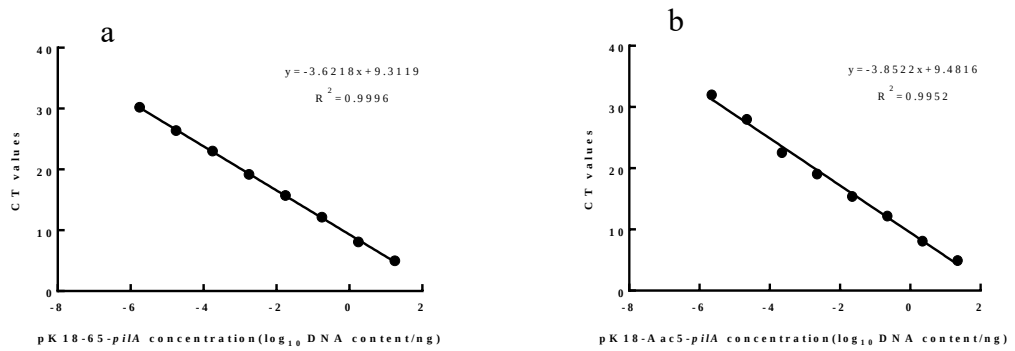

Figure S2. The standard curve for converting cycle threshold (Ct) values to the concentrations of *Acidovorax citrulli* strains pslb65 and Aac5 using quantitative real-time PCR. a. The template is pK18-pslb65-*pilA*. b. The template is pK18-Aac5-*pilA*. The constructed plasmids (pK18-pslb65-*pilA* and pK18-Aac5-*pilA*) were ten-fold serial diluted with DEPC water, and 8 ten-fold serial dilutions (10^0–10^{-7}) were used as templates. The qPCR reaction was carried out with SuperReal PreMix Plus. Three technical repeats were made for each concentration gradient. The experiment was performed three times.