

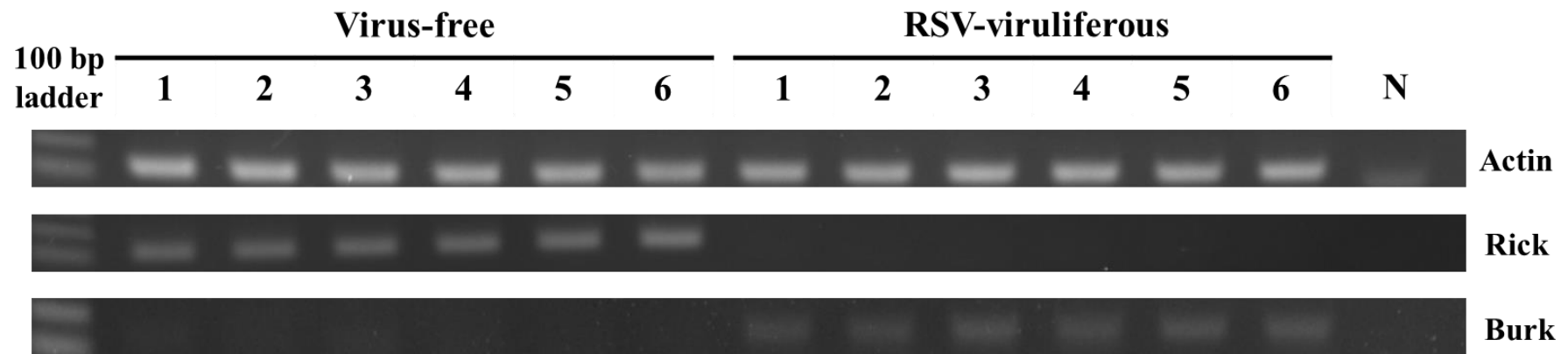


Figure S1. Results of PCR. Virus-free, healthy SBPH; RSV-infected, RSV-viruliferous SBPH; Actin, SBPH's Actin; Rick, Rickettsia; Burk, Burkholderia; N, No template **control (water)**. The primers used are listed in the Table S2.

Table S1. Raw read counts of 35 bacterial genera from different SBPH populations

Genera	Virus-free	RSV-infected
<i>Wolbachia</i>	41655	47599
<i>Enterobacter</i>	645	1
<i>Rickettsia</i>	220	0
<i>Cutibacterium</i>	96	15
<i>Pantoea</i>	88	0
<i>Staphylococcus</i>	55	13
<i>Delftia</i>	49	0
<i>Escherichia-Shigella</i>	45	8
<i>Burkholderia-Caballeronia-Paraburkholderia</i>	44	2115
<i>Cedecea</i>	44	2
<i>Kosakonia</i>	41	0
<i>Taibaiella</i>	22	0
<i>Lawsonella</i>	20	6
<i>Prauserella</i>	18	3
<i>Sphingobacterium</i>	16	0
<i>Acinetobacter</i>	14	0
<i>Corynebacterium</i>	13	2

<i>Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium</i>	10	0
<i>Haemophilus</i>	10	0
Uncultured-1	8	0
<i>Variovorax</i>	8	0
<i>Serratia</i>	8	0
<i>Flavobacterium</i>	7	0
<i>Methylophilus</i>	5	0
<i>Brevundimonas</i>	4	0
<i>Enhydrobacter</i>	4	0
{Unknown Genus} <i>Corynebacteriaceae</i>	3	1
Uncultured-2	3	0
<i>Rhodococcus</i>	2	0
<i>Pedobacter</i>	2	0
<i>Brochothrix</i>	2	0
<i>Bradyrhizobium</i>	2	0
<i>Anaerococcus</i>	1	3
<i>Bdellovibrio</i>	0	2
<i>Neoskia</i>	0	31

Table S2. Raw read counts of 35 bacterial genera from different SBPH populations

Target gene	Name	Nucleotide sequence 5'→3'	Size (bp)	Reference	Purpose
LsActin	Actin-F	CGCGATCTGACCGACTACCT	108	This study	PCR
	Actin-R	GTAGCACAGTTTCACCTTGATGTCT			
<i>Burkholderia</i>	BG1F	CCGCGCTGTTTCATGAGGGATAA	138	(Kim, et al. 2012)	PCR
	BG1R	CGGGCGGAACGACGGTAAGT			
<i>Rickettsia</i>	PanR8_F	AGCTTGCTTTTGGATCATTTGG	111	(Kato, et al. 2013)	PCR
	PanR8_R	TTCCTTGCCTTTTCATACATCTAGT			
RSV-RdRp	lee-RdRp-F	ATGACGACACCACCTCTCGTTAT	1023	(Lee, et al. 2004)	RSV diagnosis
	lee-RdRp-R	ACTAAGTTTCTGGGAACATAACT			

References

Kato, Cecilia Y, et al. 2013 Assessment of real-time PCR assay for detection of *Rickettsia* spp. and *Rickettsia rickettsii* in banked clinical samples. *Journal of clinical microbiology* 51(1):314-317.

Kim, Byoung Kyu, et al. 2012 Rapid and specific detection of *Burkholderia glumae* in rice seed by real-time Bio-PCR using species-specific primers based on an *rhs* family gene. *Plant disease* 96(4):577-580

Lee, Bong-Choon, et al. 2004 Detection of rice stripe virus using RT-PCR. *Research in Plant Disease* 10(1):30-33.