

**Supplementary Table S1.** The list of Real-time qRT-PCR primers used in this study

Gene	Primer Sequence (5' to 3')		Amplicon size (bp)	Refrence
Actin	F: R:	TCAGCAACTGGGATGATATG TTAGGGTTGAGAGGGTGCTTC	112	Milling et al., 2011.
PIN2	F: R:	CATCTTCTGGATTGCCCA ACACACAACTTGATGCCAC	106	Li et al., 2014.
LapA	F: R:	GGGACTAACATGATGTTGGAA GTGGCAATTATTAGGCA	109	Li et al., 2014.
ACO1	F: R:	TTGCTCATTCCCTTGTGGA GGAAGCTAGCAAAGCAAACC	122	Jia et al., 2013.

**Supplementary Table S2.** Summary of PGPR-related trait of AY1001

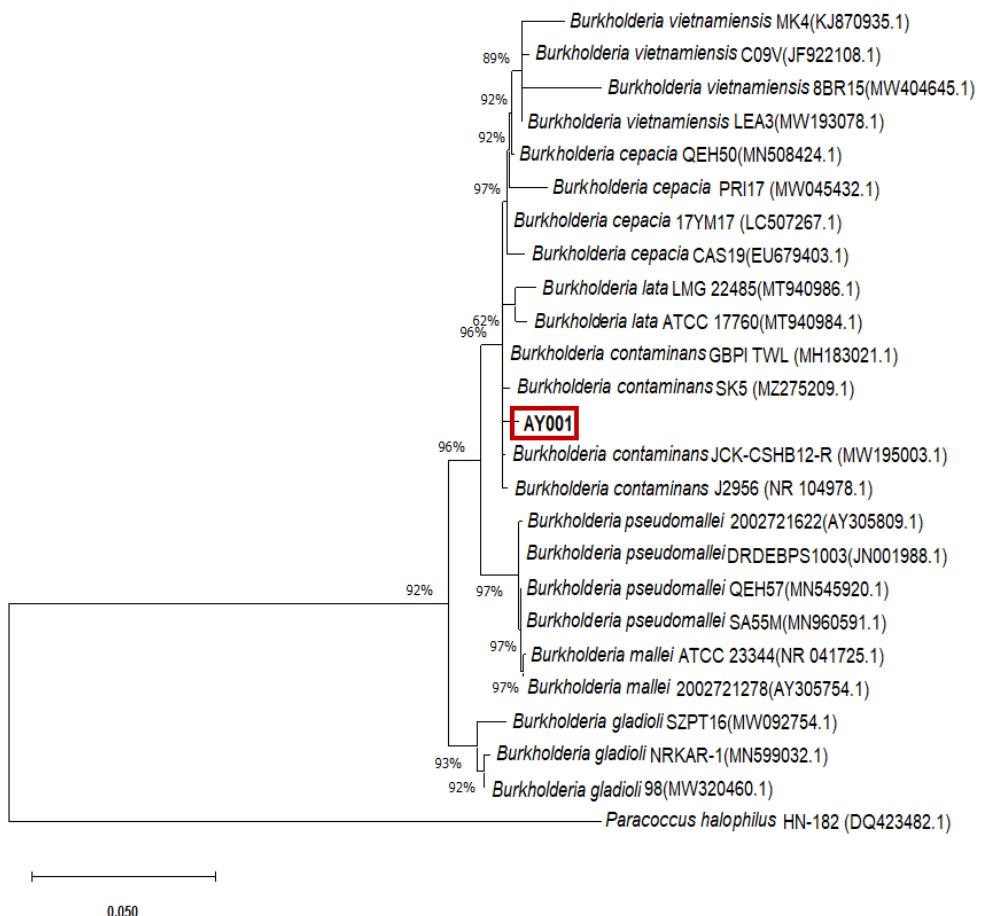
PGP trait	AY001
Phosphate solubilization	+
Protease activity	+
Amylase activity	-
Siderophore	+
Nitrogen fixation	+
Zinc solubilization	+
Cellulase activity	-
Chitinase activity	-
IAA production	+
Ammonia production	+

**Supplementary Table S3.** Qualitative analysis of zinc and phosphate solubilization and protease efficiency of AY001 at 10 dai (Mean  $\pm$  SD)

Incubation time	Total diameter (mm) (Colony + Halo zone)			Solubilization index (SI) and Hydrolysis index (HI)		
	Zinc solubilization	Phosphate solubilization	Protease activity	Zinc solubilization	Phosphate solubilization	Protease activity
Day 3	19.85 $\pm$ 0.09	12.67 $\pm$ 1.15	15.83 $\pm$ 0.76	1.99	1.27	1.58
Day 5	22 $\pm$ 0.09	16.67 $\pm$ 1.26	33.83 $\pm$ 0.29	2.13	1.52	2.78
Day 7	24.96 $\pm$ 0.03	19.33 $\pm$ 2.25	39.5 $\pm$ 0.5	2.24	1.73	2.96
Day 10	26.5 $\pm$ 0.13	24.83 $\pm$ 1.04	46.83 $\pm$ 0.29	2.24	2.22	3.01

## References

- Milling, A., Babujee, L., and Allen, C. (2011). *Ralstonia solanacearum* Extracellular Polysaccharide Is a Specific Elicitor of Defense Responses in Wilt-Resistant Tomato Plants. *PLoS One* 6, e15853. doi: 10.1371/journal.pone.0015853
- Li, X., Huang, L., Zhang, Y. et al. (2014). Tomato SR/CAMTA transcription factors SISR1 and SISR3L negatively regulate disease resistance response and SISR1L positively modulates drought stress tolerance. *BMC Plant Biol.* 14, 286. doi: 10.1186/s12870-014-0286-3
- Jia, C., Zhang, L., Liu, L., Wang, J., Li, C., and Wang, Q. (2013). Multiple phytohormone signalling pathways modulate susceptibility of tomato plants to *Alternaria alternata* f. sp. *lycopersici*. *J. Exp. Bot.* 64, 637–650, doi: 10.1093/jxb/ers360

**A****B**

**Supplementary Figure S1.** Isolation and identification of antagonistic bacterium AY001 against *Fusarium oxysporum* f.sp. *lycopersici* (FOL). **(A)** Isolation of AY001 showing antagonistic effect against FOL from PDA media. **(B)** Molecular identification of AY001 as *Burkholderia contaminans*. Phylogenetic analysis of 16S rDNA of AY001 with other *Burkholderia* spp. Phylogenetic tree were generated by Maximum Likelihood method analysis of 16S rRNA gene nucleotide sequences of *Burkholderia* species in MEGA X program.