**Fig. S1.** a. The inhibitory mode of strain ZV261 to *M*. *Fructicola* on a sealed plate. b. The antagonistic activity of crude chitinase from *E*. *coli* BL21- chitinase and fermentation supernatant of ZL261 to *M*. *Fructicola*. The chitinase of ZL261 was cloned into pET-28a (+) and prokaryotic expressed in *E*. *coli* BL21 and generate BL21- chitinase according to Li et al., (2017). The results indicated that the antifungal substance of strain ZV261 was neither chitinase nor volatile organic compounds.

b



**Crude chitinase**

**Fermentation supernatant**

a

