**Supplementary materials**

**Table S2** PCR primers used in this study



**Table S3** DDBJ/EMBL/GenBank accession numbers for housekeeping gene sequences used in this study

 The *gap1*, *gltA*, *gyrB*, and *rpoD* gene sequences of BSRA strains AZK-11 and 09Psa273 were sequenced in this study and deposited.

Other housekeeping genes sequences were obtained from DDBJ/EMBL/GenBank databases.

a T: type strain of the species; PT: pathotype strain of the pathovar

b Complete genome sequence