Supplementary Material

Fine mapping, candidate gene identification and co-segregating marker development for the Phytophthora root rot resistance gene *RpsYD25* in soybean

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# Supplementary Tables

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**Table S1** Primers for SNPs based on Tetra-AMRS PCR

**Table S2** InDels used for developing PCR markers

**Table S3** SSR marker primer sequences searched and developed based on reference genome

**Table S4** Reaction types of 178 soybean genotypes after inoculation with 8 *P. sojea* isolates

**Figure S1** Schematic representation of the construction of derived F3:4 population.

**Figure S2** Frequency distribution of proportion of dead individuals in mapping populations. **(A)** Frequency distribution of proportion of dead individuals in F2:3 families inoculated with *P. sojae* isolate PsMC1. **(B)** Frequency distribution of proportion of dead individuals in F2:3 families inoculated with *P. sojae* isolate Ps7063. **(C)** Frequency distribution of proportion of dead individuals in F3:4 families inoculated with *P. sojae* isolate PsMC1.