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| **Table S2** Genotype and phenotype of 6 recombinants in the second round of genetic analysis. aThe phenotype of F4 descendant population derived from F3 segregating progeny were assessed to determine the recombinants at different markers. R/S: segregation in resistance (R) and susceptibility (S). C: CO39 pattern. P: IRBLta2-Re[CO] pattern. The location of *Pita* is between 12g 18150 and 12g18450. |
| Recombinants  | Phenotypea | Genotype pattern resolved by different markers |
| 12g18120 | 12g18150 | 12g18450 | 12g18530 | 12g18650 | 12g18920 | 12g19260 | 12g19304 |
| 4-3H9 | R | C/P | C/P | C/P | C/P | P/P | P/P | P/P | P/P |
| 5-2G10 | R | C/P | C/P | C/P | C/P | P/P | P/P | P/P | P/P |
| 6-4B6 | R | C/P | C/P | C/P | C/P | P/P | P/P | P/P | P/P |
| 7-3C1 | R/S | C/C | C/C | C/P | C/P | C/P | C/P | C/P | C/P |
| 8-2B3 | R/S | C/C | C/C | C/C | C/C | C/P | C/P | C/P | C/P |
| 8-2C8 | R/S | C/P | C/P | C/P | C/P | C/P | P/P | P/P | P/P |