### Supplemental Table 1. C237-I genotype and resistance test of our breeding materials by cup test

| Line name | Pedigree | C237-I genotype | Resistance Score | Resistant/Susceptible |
|-----------|----------|-----------------|------------------|-----------------------|
|           | Female   | Male            |                  |                       |
| 16134-14  | 12601ab1 | Eden            | +                | 9                     | R                     |
| 16134-17  | 12601ab1 | Eden            | +                | 9                     | R                     |
| 13125-1   | Eden     | Tokachikogane   | +                | 9                     | R                     |
| 16107-52  | Pearl Starch | Eden       | +                | 8                     | R                     |
| 13125-17  | Eden     | Tokachikogane   | +                | 8                     | R                     |
| 13184-19  | Irida    | Eden            | +                | 7                     | R                     |
| 16128-7   | Hokkai 46 | Eden            | +                | 6                     | r                     |
| 16107-19  | Pearl Starch | Eden       | +                | 6                     | r                     |
| 16107-64  | Pearl Starch | Eden       | +                | 6                     | r                     |
| 13041-49  | 08118-9  | Eden            | -                | 4                     | r                     |
| 15105-14  | Eden     | Sakurafubuki    | +                | 4                     | r                     |
| 17114-8   | Hokkai 87 | Eden            | -                | 4                     | r                     |
| 16092-7   | Sayaka   | Eden            | +                | 4                     | r                     |
| 16107-35  | Pearl Starch | Eden       | +                | 3                     | s                     |
| 16107-39  | Pearl Starch | Eden       | -                | 3                     | s                     |
| 16111-27  | Floky    | Eden            | +                | 2                     | s                     |
| 16099-26  | Snow March | Eden        | -                | 2                     | s                     |
| 16092-30  | Sayaka   | Eden            | -                | 2                     | s                     |