

Table 1 The information about QTLs of PD, RTW and DFM in the JINF RIL population

| Traits | QTL Locus | Chr./position (cM) | The marker closest to the QTL | LOD value | Genetic distance (cM) | Additive | R ² (%) |
|--------------------------------------|-----------------|-----------------------|----------------------------------|-----------|--------------------------|----------|--------------------|
| Pod dehiscence (PDH) | <i>qPDH6-1</i> | 6/2.01 | Sat_062 | 12.15 | 3.10 | -2.750 | 49.44 |
| Ratio of thickness to width (RTW) | <i>qRTW11-1</i> | 11/0.03 | Satt426 | 3.00 | 10.00 | -0.014 | 9.03 |
| | <i>qRTW4-1</i> | 4/52.01 | Satt361 | 2.77 | 0.40 | 0.013 | 8.20 |
| | <i>qRTW8-1</i> | 8/31.21 | Satt187 | 2.14 | 3.70 | 0.012 | 7.02 |
| Days of full maturity (DFM) | <i>qDFM6-1</i> | 6/0.05 | Sat_062 | 6.59 | 7.20 | 2.570 | 21.77 |
| | <i>qDFM6-2</i> | 6/22.51 | Satt291 | 2.85 | 12.30 | 1.600 | 9.74 |
| | <i>qDFM18-1</i> | 18/42.91 | Satt217 | 2.81 | 0.60 | 1.440 | 7.74 |