

| Table S3. Segmental duplicated gene pairs of <i>GmPP2C-As</i> and <i>GmSnRK2s</i> genes |                 |           |           |              |            |
|---|-----------------|-----------|-----------|--------------|------------|
| Duplicated gene pairs   |                 | <i>Ka</i> | <i>Ks</i> | <i>Ka/Ks</i> | Time (MYA) |
| <i>GmPP2C1</i>  | <i>GmPP2C8</i>  | 0.098621  | 0.186471  | 0.528881     | 14.34395   |
| <i>GmPP2C2</i>  | <i>GmPP2C9</i>  | 0.223641  | 0.955546  | 0.234045     | 73.50352   |
| <i>GmPP2C2</i>  | <i>GmPP2C11</i> | 0.058882  | 0.230327  | 0.255646     | 17.71743   |
| <i>GmPP2C2</i>  | <i>GmPP2C17</i> | 0.20438   | 0.84824   | 0.240946     | 65.24926   |
| <i>GmPP2C3</i>  | <i>GmPP2C5</i>  | 0.028138  | 0.108004  | 0.260526     | 8.308018   |
| <i>GmPP2C4</i>  | <i>GmPP2C6</i>  | 0.027845  | 0.097286  | 0.286221     | 7.483572   |
| <i>GmPP2C7</i>  | <i>GmPP2C14</i> | 0.04644   | 0.118849  | 0.390746     | 9.142246   |
| <i>GmPP2C9</i>  | <i>GmPP2C11</i> | 0.203821  | 0.999547  | 0.203914     | 76.88823   |
| <i>GmPP2C9</i>  | <i>GmPP2C17</i> | 0.040155  | 0.209889  | 0.191318     | 16.1453    |
| <i>GmPP2C11</i>   | <i>GmPP2C17</i> | 0.210302  | 1.04264   | 0.201702     | 80.20309   |

MYA: million years ago