**Table S5. Comparison of SSR markers identified in this study and genes or QTLs reported in previous studies**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Marker | Chromosome | Start position (bp)a | Genes or QTLs reported in the previous studies | | | Difference (bp) |
| Symbol | Position (bp)a | Reference |
| RM5340 | 2 | 7,482,346 | qGR-2-1 | 595,109-4,305,907 | Jia et al., 2012 | 3,176,439 |
|  |  |  | GW2 | 8,114,961-8,121,925 | Song et al., 2007 | 632,615 |
| RM5480 | 3 | 5,306,122 | OsMADS1 | 6,053,188-6,061,274 | Prasad et al., 2005 | 747,066 |
| RM148 | 3 | 35,629,247 | TGW3b | 30,308,684-30,570,344 | Liu et al., 2010 | 5,320,563 |
| RM505 | 7 | 24,527,931 | qGR-7-7 | 2,678,661-21,045,102 | Jia et al., 2012 | 3,482,829 |
|  |  |  | qGR-7-8 | 21,045,102-26,636,625 | Jia et al., 2012 | in |
|  |  |  | SUS3 | 25,429,639-25,435,132 | Hirose et al., 2008 | 901,708 |
|  |  |  | GL7 | 24,664,168-24,669,324 | Wang et al., 2015 | 136,237 |
|  |  |  | GE | 24,713,778-24,715,813 | Nagasawa et al., 2013 | 185,847 |
|  |  |  | qGP-7 | 28,411,532-29,466,858 | Niu et al., 2004 | 3,883,601 |
| RM1235 | 8 | 1,203,431 | DTH8 | 4,332,106-4,334,829 | Wei et al., 2010 | 3,128,675 |
|  |  |  | RM44 | 11,759,419-11,759,434 | Takai et al., 2005 | 10,555,988 |
| RM511 | 12 | 17,442,508 | RM511 | 17,442,508 | Liu et al., 2015 | 0 |
| RM5479 | 12 | 24,446,205 | C1069 | 25,080,619-25,081,017 | Takai et al., 2005 | 634,414 |
|  |  |  | OsSUT2 | 27,513,939-27,518,251 | Takeda et al., 2001 | 3,067,734 |

aThe physical positions of the third and fifth columns were determined based on data from Gremene (http://www.gramene.org/markers) and NCBI (http://blast.ncbinlm.nih.gov/Blast.cgi)