

Supplemental Table 5. List of QTL examined, with start and end positions.

| Trait category | Target QTL | Chromosome | Start | End |
|------------------|------------------------------------|------------|----------|----------|
| Abiotic stress | AG1 | 9 | 12036453 | 12545658 |
| Abiotic stress | COLD1 | 4 | 30174083 | 31052578 |
| Abiotic stress | LTG1 | 2 | 24693023 | 24787561 |
| Abiotic stress | qSCT1 | 1 | 39076741 | 40477292 |
| Abiotic stress | DTY1.1 | 1 | 37925965 | 40473982 |
| Abiotic stress | DTY12.1 | 12 | 17066946 | 17571574 |
| Abiotic stress | DTY2.1 | 2 | 9570228 | 12035419 |
| Abiotic stress | DTY2.2 | 2 | 209765 | 8882316 |
| Abiotic stress | DTY3.1 | 3 | 28587948 | 31393778 |
| Abiotic stress | DTY3.2 | 3 | 180286 | 13032396 |
| Abiotic stress | DTY4.1 | 4 | 59946 | 3557787 |
| Abiotic stress | HTSF4.1 | 4 | 17474229 | 20149751 |
| Abiotic stress | qNa1L | 1 | 37782482 | 40997165 |
| Abiotic stress | Saltol | 1 | 11110274 | 11739003 |
| Abiotic stress | Sub1 | 9 | 6191930 | 6774928 |
| Biotic stress | Pi35(t) | 1 | 32898485 | 33321905 |
| Biotic stress | Pi54 | 11 | 24843208 | 25974491 |
| Biotic stress | Pi9 | 6 | 10049864 | 10677685 |
| Biotic stress | Pita2 | 12 | 9177624 | 11069613 |
| Biotic stress | xa13 | 8 | 26316287 | 27300242 |
| Biotic stress | Xa21 | 11 | 19941316 | 21508416 |
| Biotic stress | Xa23 | 11 | 22008834 | 22923998 |
| Biotic stress | Xa4 | 11 | 25974491 | 28804914 |
| Biotic stress | Xa5 | 5 | 255323 | 767585 |
| Biotic stress | Xa7 | 6 | 27609767 | 28187269 |
| Biotic stress | BPH17 | 4 | 6835634 | 7195884 |
| Biotic stress | BPH3 | 6 | 1272777 | 1768006 |
| Biotic stress | TSV1 | 7 | 21998892 | 22381105 |
| Grain quality | frg-1 | 8 | 20213731 | 20413803 |
| Grain quality | SSIIa (gelatinisation temperature) | 6 | 6508525 | 6891960 |
| Grain quality | GW5/SW5 | 5 | 5256714 | 5588965 |
| Grain quality | Waxy | 6 | 1501961 | 1934659 |
| Grain quality | Chalk5 | 5 | 3253516 | 3470087 |
| Grain quality | PGWC8-2 | 8 | 25757847 | 26074700 |
| Grain quality | GS3 | 3 | 16688962 | 16889939 |
| Maturity | DTH8 | 8 | 4101332 | 4603854 |
| Maturity | Hd9 | 3 | 996213 | 1851409 |
| Yield components | DEP1 | 8 | 16394577 | 16523573 |
| Yield components | Gn1a | 1 | 4949689 | 5608892 |
| Yield components | NAL1 | 4 | 30307709 | 31419137 |
| Yield components | SCM2 | 6 | 27371995 | 27609767 |
| Yield components | TGW6 | 6 | 24875490 | 25387111 |