**Additional file 15. Primers used for PCR**

|  |  |  |
| --- | --- | --- |
| Targeted sequence | Name | Primer sequence (5’- 3’) |
| Glyma02g19754 | Glyma02g19754GW-Fw | AAAAAGCAGGCTTCACAATGGACGAATTAGAAGAAAC |
| Glyma02g19754 | Glyma02g19754GW-Rv | AGAAAGCTGGGTCACCCAACAGCAGAGGTTCCAAC |
| Glyma19g30681 | Glyma19g30681GW-Fw | AAAAAGCAGGCTTCACAATGCTTAAAATAACTAACG |
| Glyma19g30681 | Glyma19g30681GW-Rv | AGAAAGCTGGGTCCGTAGTTTTCCCCTCACTCTT |
| Glyma03g27865 | Glyma03g27865Gw2-Fw | AAAAAGCAGGCTTCACAATGTACAGGGTTTTAGCGCG |
| Glyma03g27865 | Glyma03g27865Gw2-Rv | AGAAAGCTGGGTCTTCTTA GTT TTC CCC TCA CTC TTC |
| attB1 | 2942  | GGGGACAAGTTTGTACAAAAAAGCAGGCT |
| attB2 | 2943 | GGGGACCACTTTGTACAAGAAAGCTGGGT |
| pDONR 207 | 3397 (Fwd) | TCGCGTTAACGCTAGCATGGATC |
| pDONR 207 | 3398 (Rvs) | TGTAACATCAGAGATTTTGAGACAC |
| 35S | MC36 (Fwd) | TCCTTCGCAAGACCCTTCCTC |
| Glyma02g19754 | glyma02g19754Fwd | GATGCTGCTTCCGATGAACCCATG |
| Glyma02g19754 | glyma02g19754unspR | GCAGAGGTTCCAACAAGAGCACAG |
| Glyma02g19754 | glyma02g19754spdR | CAGCAGGGAACCCAACAGCAGACTC |