**Supplementary Table 7. Sequences of primers.**

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| Primer name | Sequence (5’-3’) | Application |
| Gohir.D07G131000.1.p-F | ATGTTTCCTTCAAAGTCATTTC | Detection of differential genes between two version of *G. hirsutum* database |
| Gohir.D07G131000.1.p-R | TCAATGTGAGTGTCGGTACAA |
| Gh\_A05G2220-F | ATGCCTAAATCACCATCACTCTTC |
| Gh\_A05G2220-R | TCAAGAATCCAATGCAAACGG |
| Gh\_A05G2796-F | ATGCGTTTTATTTTATATGCG |
| Gh\_A05G2796-R | TCAAAACAAATAGCTGGGGTA |
| Ox-GhGATL2-F | ATGTCTAAACCACAGCACTATCATT | Amplified genes for transgenic Arabidopsis |
| Ox-GhGATL2-R | TGAATCCAATGCAAATGGAGT |
| Ox-GhGATL9-F | ATGCATCCATCTAAACCACTCA |
| Ox-GhGATL9-R | GCTATTGGAGAACAAAGACGG |
| Ox-GhGATL12-F | ATGCTTTGGGTTATGCAATTC |
| Ox-GhGATL12-R | ATGTGAGTGTCGGTACAAGTCG |
| Ox-GhGATL15-F | ATGCGTTCCATTTTCCATGCT |
| Ox-GhGATL15-R | TGACAAAAAACTGGAAAATCCCA |
| RT-GhGATL2-F | CGATTCAAGGAAGCCCCGTCAT | qPCR(Candidate genes) |
| RT-GhGATL2-R | TGTACCCCGAATGTAAGCAGCG |
| RT-GhGATL9-F | GATCTCGTCTTCCATCCGACGC |
| RT-GhGATL9-R | TCTTCCTTTAAACGACGCCGCA |
| RT-GhGATL12-F | ATCTACGAGCTGGGTTCGTTGC |
| RT-GhGATL12-R | CGGTACAAGTCGTAAGGTGCCC |
| RT-GhGATL15-F | CGAGGAGGCCGTGCTATTTCAA |
| RT-GhGATL15-R | CTAGCAGAAACGGAGGCAACGA |
| GhUBQ14-F | CAACGCTCCATCTTGTCCTT | qPCR (Internal control) |
| GhUBQ14-R | TGATCGTCTTTCCCGTAAGC |
| VI-GhGATL15-F | AAAGAAGTTGTTTCGTCGTGCGA | Amplification genes for VIGS |
| VI-GhGATL15-R | GGGTTTTCCAGGGCTTG |