**Supplementary Table 6.** The 20 *Gossypium* accessions used to sequence *GhLMI1*­-like genes.Sanger sequences of both *GhLMI1-D1a* and *GhLMI1-D1b* were collected from these 20 tetraploid cotton varieties in order to construct **Figures 3c** and **Supplementary Fig. 5**. There are five varieties of each of the four major leaf shapes; *normal*, *okra*, *super-okra*, and *sub-okra*. A consensus sequences was determined from each group of five in order to generate a single sequence for each leaf shape at both loci.

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| --- | --- | --- | --- |
| Entry No. | Accession/Variety | Leaf shape | Species |
| 1 | NC11-2100 | Normal | *G. hirsutum* |
| 2 | NC11-2091 | Normal | *G. hirsutum* |
| 3 | Coker 312 | Normal | *G. hirsutum* |
| 4 | TM-1 | Normal | *G. hirsutum* |
| 5 | LA 213 Frego Bract | Normal | *G. hirsutum* |
| 6 | NC05AZ21 | Okra | *G. hirsutum* |
| 7 | Stoneville 7A Okra | Okra | *G. hirsutum* |
| 8 | Acala Red Okra Leaf | Okra | *G. hirsutum* |
| 9 | LA213 Okra | Okra | *G. hirsutum* |
| 10 | Aub Okra-16 | Okra | *G. hirsutum* |
| 11 | Super Okra UA2-5 | Super Okra | *G. hirsutum* |
| 12 | Acala 6010-15-U Okra | Super Okra | *G. hirsutum* |
| 13 | LA213 Super Okra | Super Okra | *G. hirsutum* |
| 14 | P62Lo | Super Okra | *G. barbadense* |
| 15 | Acala 6010-27-10 Okra | Super Okra | *G. hirsutum* |
| 16 | TAMCOT CAMD-ES | Sub-Okra | *G. hirsutum* |
| 17 | DPL 5540-85 | Sub-Okra | *G. hirsutum* |
| 18 | MD 65-11 | Sub-Okra | *G. hirsutum* |
| 19 | DES 422 | Sub-Okra | *G. hirsutum* |
| 20 | NC05AZ06 | Sub-Okra | *G. hirsutum* |