

Genes Expressing Differences in Upland Cotton Fiber Development Between 12 DPA and 16 DPA

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Cotton is the major dominant natural fiber crop on the earth. Although some current cotton genetics and breeding programs had made great progresses in cotton lint yield increases and disease resistance (tolerance), fiber quality has little improvement. Global understanding genes expression will benefit to the fiber quality genetic improvement in the future. There are total 929 genes that were differently expressed between 12 DPA and 16 DPA based on the 12 K cotton cDNA arrays (CapitalBio Corporation) analysis. There were 357 (38%) up-regulated, and 572 (62%) down-regulated. This work was supported by grants from the China National Basic Research Program (2004CB117306)