**Genome Wide Identification, Classification and Functional Characterization Analysis of IQD gene family in Diploid and Tetraploid Cotton (*Gossypium*)**

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**Supplementary Fig. 7a. Cluttering of orthologous genes analysis between *G. arboreum*, *G. raimondii*, *G. barbadense* and *G. hirsutum***



**Supplementary Fig. 7b. Cluttering of orthologous genes analysis between *G. arboreum, G. barbadense* and *G. hirsutum***



**Supplementary Fig. 7c. Cluttering of orthologous genes analysis between *G. barbadense, G. hirsutum* and *G. raimondii***

**Supplementary Fig. 7d. Cluttering of orthologous genes analysis between *G. arboreum* and *G. barbadense***



**Supplementary Fig. 7e. Cluttering of orthologous genes analysis between *G. arboreum* and *G. hirsutum***

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**Supplementary Fig. 7f. Cluttering of orthologous genes analysis between *G. arboreum* and *G. raimondii***

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**Supplementary Fig. 7g. Cluttering of orthologous genes analysis between *G. hirsutum* and *G. barbadense***



**Supplementary Fig. 7h. Cluttering of orthologous genes analysis between *G. raimondii* and *G. barbadense***



**Supplementary Fig. 7i. Cluttering of orthologous genes analysis between *G. hirsutum* and *G. raimondii***