

Figure S2. Phylogenetic relationships of the CNGC family members in the tetraploid species *Gossypium hirsutum*. The amino acid sequences of cyclic nucleotide-gated channels (CNGCs) were aligned with ClustalW, and a consensus tree was generated by the Neighbor-Joining (NJ) method with 1000 bootstraps using MEGA X software (Kumar et al. *Mol Biol Evol.* 2018, 35:1547-1549). The CNGCs in *G. hirsutum* were clustered into four groups (I, II, III, IV) and two subgroups (IV-A and IV-B), conforming to the classification of CNGCs in *Arabidopsis thaliana* (Talke et al. *Trends Plant Sci.* 2003, 8:286-293). *G. hirsutum*, GhCNGC1-40; *A. thaliana*, AtCNGC1-20.

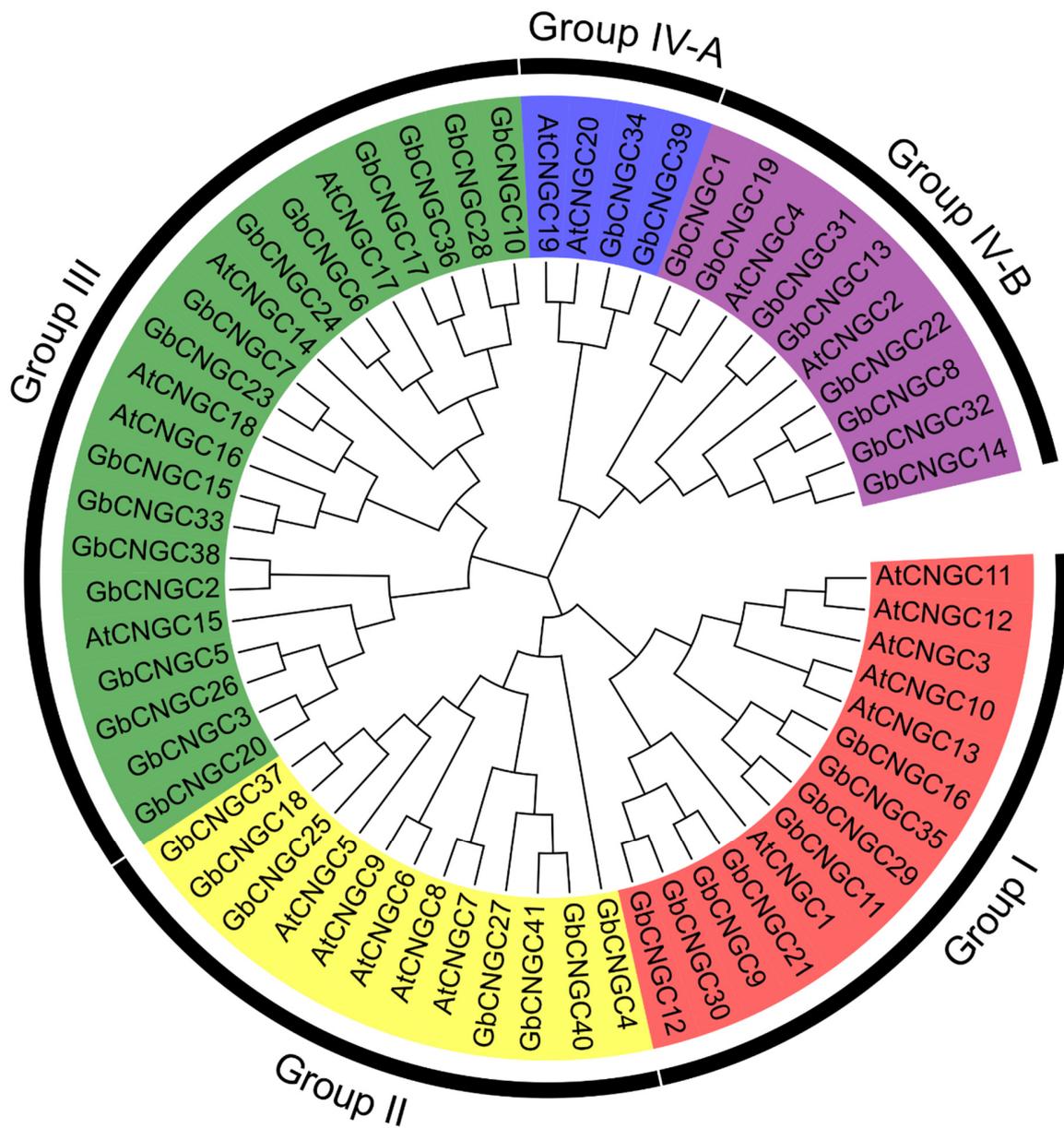


Figure S3. Phylogenetic relationships of the CNGC family members in the tetraploid species *Gossypium barbadense*. The amino acid sequences of cyclic nucleotide-gated channels (CNGCs) were aligned with ClustalW, and a consensus tree was generated by the Neighbor-Joining (NJ) method with 1000 bootstraps using MEGA X software (Kumar et al. *Mol Biol Evol.* 2018, 35:1547-1549). The CNGCs in *G. barbadense* were clustered into four groups (I, II, III, IV) and two subgroups (IV-A and IV-B), conforming to the classification of CNGCs in *Arabidopsis thaliana* (Talke et al. *Trends Plant Sci.* 2003, 8:286-293). *G. barbadense*, GbCNGC1-41; *A. thaliana*, AtCNGC1-20.

