

Identification and Characterization of a Small Gene Involved in GA-Dependent Development of *Arabidopsis thaliana***Moon-Soo Soh**

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Gibberellins are phytohormones that control various aspects of growth and development in plants, including seed germination, cell elongation, flowering, and fruit development. Molecular genetic studies have identified several upstream signaling components of GA signaling, including a soluble GA receptor. Although genetic approaches have been successful in identifying various components of GA signaling, additional components remain to be identified and characterized. The essential roles of GA in fruit setting and seed germination might have precluded isolation of loss-of-function mutants of positive regulators in GA-signaling. Here I will present our recent research progress on identification of PRE gene family as GA-signaling components based on gain-of-function approaches and characterization of their *in vivo* functions in *Arabidopsis thaliana*.