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Title: Molecular cloning and sequence variance analysis of the *TEOSINTE BRANCHED1 (TB1)* gene in bermudagrass [*Cynodon dactylon* (L.) Pers]

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Abstract

TEOSINTE BRANCHED1 (TB1) encodes a *TEOSINTE BRANCHED1*, *CYCLOIDEA*, and *PROLIFERATING CELL FACTOR* (TCP) transcription factor that represses axillary bud outgrowth and lateral branch formation in plants. Previous studies have elucidated the essential tillering regulatory roles of *TB1* in many grasses, including maize and rice; however, the functions of *TB1* in turf grasses remain unclear. In this study, we cloned the *CdTB1* gene from bermudagrass, an important turfgrass species, and characterized the transactivation function of the CdTB1 protein.

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