

- involved in low-temperature responsiveness
- essential for the anaerobic induction(ARE)
- involved in defense and stress responsiveness(TC-rich repeats)
- MYB binding site involved in drought-inducibility(MBS)
- involved in zein metabolism regulation(O2-site)
- related to meristem expression(CAT-box)

involved in the AbSCISIC acid responsiveness(ABRE) involved in the MeJA-responsiveness(CGTCA-motif) gibberellin-responsive element(GARE-motif) gibberellin-responsive element(P-box) involved in salicylic acid responsiveness(TCA-element) involved in the MeJA-responsiveness(TGACG-motif) auxin-responsive element(TGA-element)

Appendix H. Analysis of cis-acting elements in the VviDEADRHs.

(A) Phylogenetic tree of *VviDEADRHs* constructed using the ML (Maximum Likelihood) method. Different background colors represent different grouping branches. (B) Positional distribution of different types of cis-acting elements in the promoter region of *VviDEADRHs*. Circles, triangles, and rectangles represent cis-acting elements of growth and development, adversity stress, and hormone regulation, respectively. Different types of cis-acting elements are uniquely colored. (C) The number of three types of cis-acting elements in the promoter of *VviDEADRHs*: growth and development, environmental stress, and hormone regulation, respectively marked in green, blue, and orange. Different numbers in the squares represent the number of homeopathic elements (color-coded filling).