

**MORPHOLOGICAL CHANGES IN TRANSGENIC
EUCALYPTUS HYBRID (*E. urophylla* x *E. pellita*)
BY EXPRESSION OF *EcHB1* GENE**

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Summary

The *EcHB1* gene was successfully transformed into Eucalyptus hybrid between *E. urophylla* and *E. pellita* (UP hybrid). Compared to control clones, the transgenic plants have some superior morphology characteristics, particularly at height and leaf characteristics in both *in vitro* and nursery stages. The *EcHB1* transformed plants have more average number of internodes, length of internode, the height of buds, and leaf length and width of wide-type plants. At the nursery, the height of transgenic plants was higher, their leaf size was also larger than those of control plants. This result showed the *EcHB1* gene in plants may has a greater effect on the growth of height and leaf size of the transgenic plants.

Keywords: *UP hybrid, transgenic plants, EcHB1 gene, morphology, in vitro.*