

**Electronic supplementary material: Supplementary Figure 4**

**Title:** Genetic dissection of growth, wood basic density and gene expression in interspecific backcrosses of *Eucalyptus grandis* and *E. urophylla*

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**Authors:** Anand R.K. Kullán, Maria M van Dyk, Charles A. Hefer, Nicoletta Jones, Arnulf Kanzler, Alexander A. Myburg\*

**Affiliation and e-mail address of corresponding author:**

Department of Genetics, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Pretoria, 0002, South Africa

[zander.myburg@fabi.up.ac.za](mailto:zander.myburg@fabi.up.ac.za)

**Supplementary Figure 4. Schematic representation of the segregation of dominant effect QTLs from the F<sub>1</sub> hybrid in the two backcross families.** Under complete dominance, in case of an F<sub>1</sub> hybrid heterozygous for a dominant allele (Qq) at a trait locus backcrossed with homozygous Parent 1 (QQ), the resulting backcross progeny would all carry at least one copy of the dominant Q allele, so there would not be any segregation for the trait locus in the backcross progeny and a QTL would not be detected. On the other hand, if the F<sub>1</sub> hybrid (Qq) was backcrossed to a recessive Parent 2 (qq), the resulting backcross progeny would either be heterozygous (Qq) or homozygous (qq) at this locus (1:1 segregation ratio), enabling the identification of a QTL.

