

Tissue PCR for Arabidopsis

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1. Material

1. 0.25N NaOH
2. 0.25N HCl
3. 0.5M Tris, pH 8.0
4. 0.25% NP-40 (detergent)

2. Methods

1. Rip a small piece of an incompletely expanded leaf and place it in the bottom of a PCR tube.
2. Add 40 μ l of 0.1 N NaOH and boil for 2 minutes
3. Add 40 μ l of 0.1 N HCl and 20 μ l of detergent solution, boil for 2 min
4. Remove supernatant
5. Add PCR solution directly to tube w/leaf piece inside (leaf piece should appear dark green)
6. Do PCR as normal BUT always do 40 cycles, as template is low

Reference:

Lamb, R.S., Irish V.F. (2003) Functional divergence within the APETALA3/PISTILLATA floral homeotic gene lineages. PNAS 100, 6558-63.