

Precision Tree Breeding Platform

Macadamia DNA Marker Service

**DNA
IDENTITY
CHECK**

Not sure whether a tree is the cultivar you think it is? DNA fingerprinting compares a sample against cultivar reference fingerprints to help confirm cultivar identity and maintain cultivar integrity.

HOW TO USE THE SERVICE

- 1  **Complete and submit the online form**
Complete the sample submission form with the grower/farm details and information requested for each sample.
- 2  **Online Meeting**
An online meeting will be scheduled to provide further context and gather any additional information required.
- 3  **Receive your sample kit**
A sample kit will be sent to you with detailed instructions on how to collect, label and package the sample.
- 4  **Collect the sample**
Collect the sample exactly as instructed in the kit and ensure it is clearly identified and marked.
- 5  **Submit the sample**
Return the collected sample according to the submission and packaging instructions supplied with the kit.
- 6  **DNA fingerprint is compared**
The University of Pretoria Precision Tree Breeding Platform compares the DNA fingerprint with the available SAMAC cultivar reference fingerprints.
- 7  **Receive confirmation by email**
The cultivar identity outcome is communicated to you by email.

START HERE



Scan the QR code or [click here](#) to complete the online form.

WHEN IS IT USEFUL?

- Cultivar identity is uncertain
- You suspect a tree or batch was mislabelled
- Different names may refer to the same material
- Parentage needs to be confirmed

QUERIES

Melissa.Reynolds@fab.up.ac.za
Read more about the
DNA Fingerprint Platform [here](#)

FOLLOW-UP

SAMAC can assist with questions about the process or follow up on delays. Contact SAMAC at

- Lize@samac.org.za
- Ilana@samac.org.za

COSTING valid until 28 Feb 2027

		Cost per sample (96 batches)	Cost/sample (variable number)
1	DNA isolation from leaf tissue	R 100	R 110
2	DNA isolation from kernels	N/A	R 290
3	Microsatellite genotyping (one panel of DNA markers)	R 230	R 260
4	Microsatellite genotyping (two panels of DNA markers)	R 460	R 520
5	Overhead	30%	30%

SAMAC invested in developing the platform and establishing its reference library. Growers fund their own orchard analyses, with preferential rates secured for SAMAC members.