

# MOLECULAR IDENTIFICATION AND GENETIC RELATIONSHIP OF *Michelia braianensis* SPECIES USING DNA BARCODE

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## Summary

The genomic DNA was extracted from leaf tissue of *Michelia braianensis* Gagnep. The *matK*, *rbcL*, *trnH-psbA*, *ycf1b* fragments were amplified from total DNA of *Michelia braianensis* Gagnep by PCR technique. The PCR results indicated that all DNA bands were amplified from the samples, they had the size similar to the theoretical size of *matK*, *rbcL*, *trnH-psbA*, *ycf1b*. Results of nucleotide sequencing from PCR product samples showed that the size of the isolated *matK* gene fragment was 837 bp, *rbcL* fragment was 599 bp, *trnH-psbA* fragment was 512 bp and *ycf1b* fragment was 962 bp. The nucleotide sequences of *matK*, *rbcL*, *trnH-psbA*, *ycf1b* from *Michelia braianensis* Gagnep have been registered on the DNABank.vn with accession numbers: IDMMB0006, MMB0007, MMB0008 and MMB0009. Fragment sequences of *trnH-psbA* and *ycf1b* molecular marker are recommended as DNA barcode to identify *Michelia braianensis* Gagnep.

**Key words:** DNA barcode, *Michelia braianensis*, identify species, *matK*, *rbcL*, *trnH-psbA*, *ycf1b*.