## MK000077=P/1229

Marker: P/1229 Type: Dominant PCR

**Description**:

Reference: Euphytica 127: 353–365, 2002. PCR-based markers to differentiate the mitochondrial genomes

of

petaloid and male fertile carrot (Daucus carota L.) Inga C. Bach, Annette Olesen & Philipp W. Simon,

**PCR Reaction**: 20 μl: [0.4 μg/ml DNA=8 ng; 0.4 μM each primer=8 pMol each; 0.025 U/μl Taq=0.5 U;

1.5 mM MgCl<sub>2</sub>=30 nMol; 0.1 mM each dNTP=2 nMol]

**PCR Program**: 94°C 2:00; 35 cycles of {94°C 1:00; 55°C 1:00; 72°C 2:30}; 72°C 7:00

Screening Method: Product size by agarose gel

**Product Sizes:** 1229 bp in Sp cytoplasm; no product in N cytoplasm

Example:

Diagram of how it works:

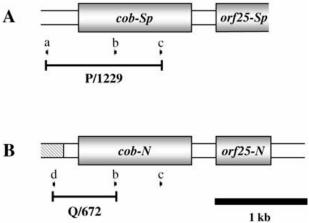


Figure 6. Configurations of cob-Sp (A) in K826A and cob-N (B) in K831B. The crosshatched region upstream from cob-N had no homology to the 5'-flanking region of cob-Sp. Thick arrows indicate annealing sites of the primers cmt-20 (a), cob-u1 (b), cob-u2 (c) and cmt-21 (d). The marker fragments P/1229 and Q/672 are indicated as bars. The DNA sequences of the cob-Sp and cob-N loci have been assigned GenBank Accession Nos. AY007821 and AY007816, respectively.

Genbank reference:

**Sequence Information:** 

**Map Location:** 

**Published Reference:** Other Information:

**Primer Location (lab specific):** Box 0 X0 **PCR Program Name (lab specific):**