

Multiplex CRISPR/Cas9-mediated knockout of the *phytoene desaturase* gene in *Coffea canephora*

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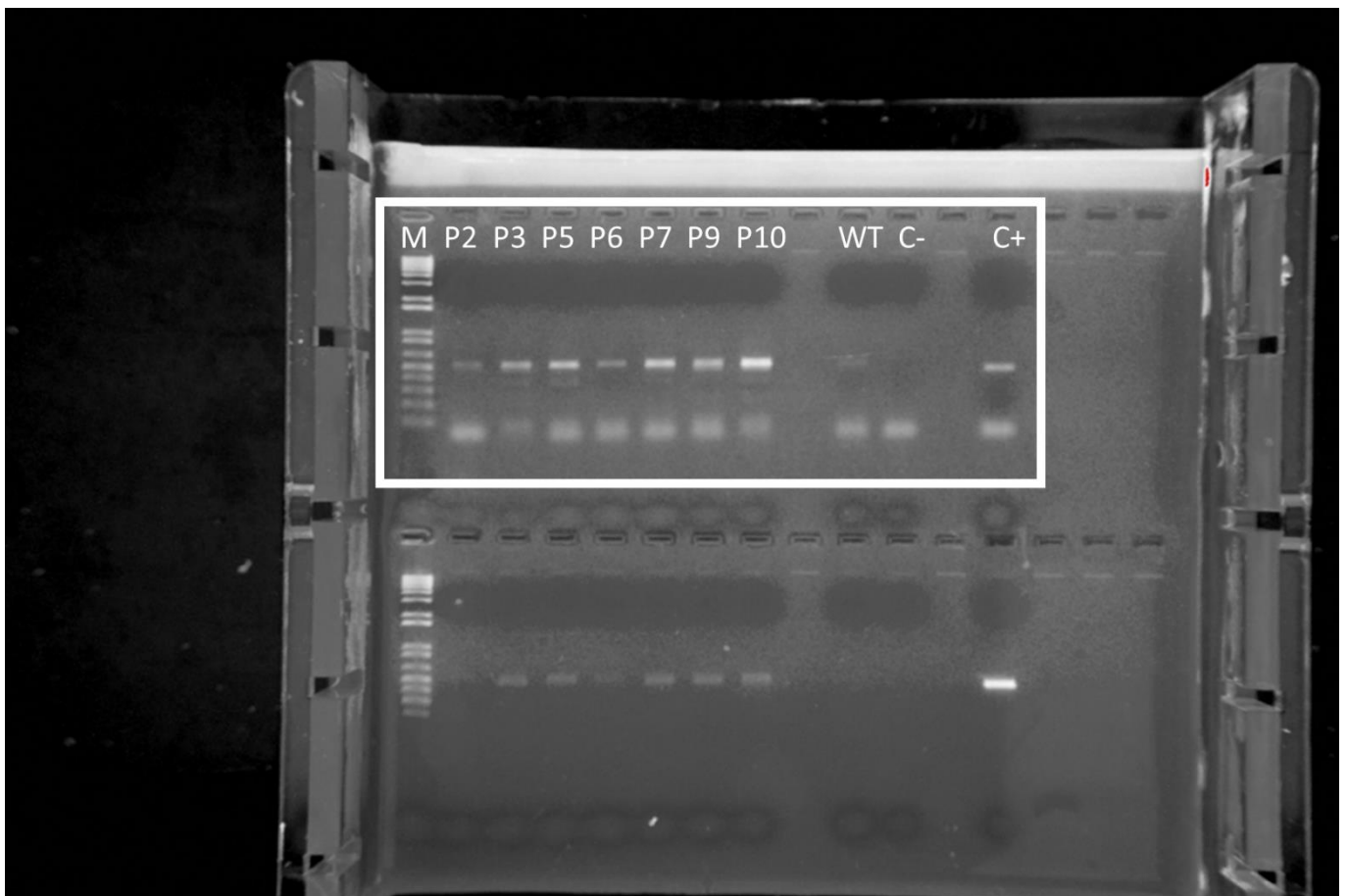
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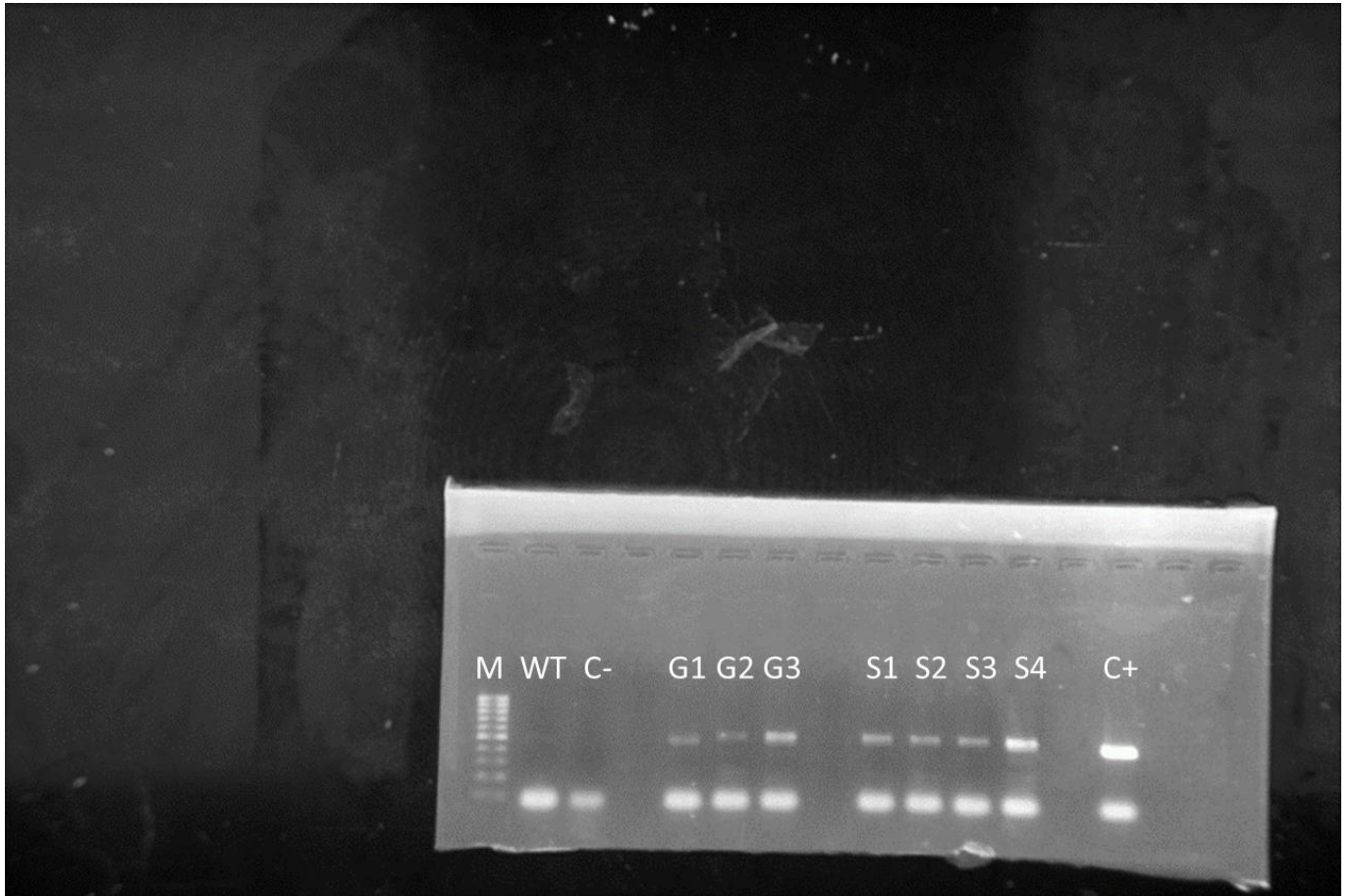
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Supplementary Information



Supplementary fig. S1. Unprocessed image of the electrophoretic gel of the PCR to confirm the transformation of *C. canephora* albino seedlings with the pCOFEDIT-2 vector. In the area delimited by white lines, it is possible to observe

the following: M: molecular weight marker; P2-P10: transformed seedlings; WT: WT seedling; C-: negative control (water); C+: positive control (plasmid DNA).



Supplementary fig. S2. Unprocessed image of the electrophoretic gel of the PCR to confirm the transformation of *C. canephora* green and variegated seedlings with the pCOFEDIT-2 vector. Legend: M: molecular weight marker; WT: WT seedling; C-: negative control (water); G1-G3: green seedlings; S1-S4: variegated seedlings; C+: positive control (plasmid DNA).

Fasta sequences of the sequencing results used to analyze the mutations generated in the CcPDS gene.

Supplementary dataset 1: Partial genomic DNA sequencing of *CcPDS* corresponding to sgRNA target 1 (exon 3). Abbreviations refer to the following samples: P: albino somatic seedlings, WT: control, untransformed; G: green seedlings (transformed); S: variegated seedlings (transformed); and C: different clones sequenced.

>P2.C3

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>P2.C4

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>P2.C5

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>P3.C5

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>P7.C2

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>P7.C5

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>P10.C4

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>S1.C2

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>S1.C3

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>S1.C5

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>S1.C6

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>S2.C2

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>S2.C4

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>S2.C6

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>S2.C9

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>S3.C1

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>S3.C3

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>S3.C4

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>S3.C5

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G

>S4.C2

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>S4.C3

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CCT

>S4.C4

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>S4.C5

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ACMGSTKA

Supplementary dataset 2: Partial genomic DNA sequencing of *CcPDS* corresponding to sgRNA target 2 (exon 5). Abbreviations refer to the following samples: P: albino somatic seedlings, WT: control, untransformed; G: green seedlings (transformed); S: variegated seedlings (transformed); and C: different clones sequenced.

>P2.C1

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>P6.C3

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>P6.C4

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>P7.C1

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>P7.C2

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>P7.C3

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>P7.C4

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>P10.C1

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>P10.C2

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>P10.C3

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>P10.C5

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>P2.C2

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>P2.C3

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>P2.C4

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>G3.C3

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>S1.C3

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>S1.C4

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>S2.C1

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>S2.C2

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>S2.C3

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>S2.C4

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>S3.C1

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>S3.C3

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>S4.C1

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>S4.C3

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>S4.C4

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>S3.C5

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>S3.C6

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>S4.C5

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>S4.C6

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