## Primers for PCR amplification and sequencing

In order to allow easy sequencing using the standard sequencing primer pair M13, the rbcL and matK PCR amplification primers have been designed to include the DNA sequence of the M13 sequencing primers (M13 tail, shown in blue) 5' of the barcode primer sequence (shown in orange).

rbcL primers\* (working stock: 10 μM):

matK primers (working stock: 10 µM):

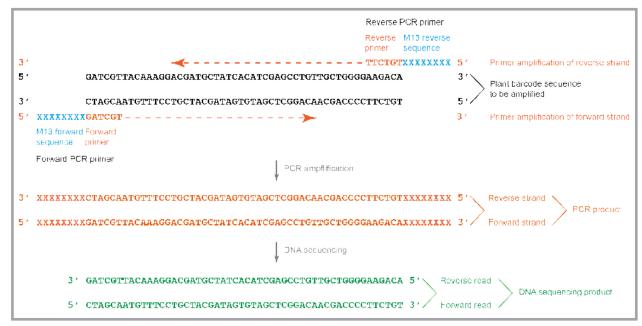
Forward: matK-1RKIM Fwd-M13 TGTAAAACGACGGCCAGTACCCAGTCCATCTGGAAATCTTGGTTC

Reverse: matK-3FKIM Rev-M13 CAGGAAACAGCTATGACCGTACAGTACTTTTGTGTTTACGAG

The following M13 sequencing primers can be used to sequence the rbcL and matK sequences which have been amplified via the PCR primers above:

Forward M13 sequencing primer: TGTAAAACGACGGCCAGT
Reverse M13 sequencing primers: CAGGAAACAGCTATGAC

The schematic below illustrates how PCR primers with an M13 tail can be used to obtain PCR products and subsequently DNA sequencing products of plant barcodes.



Schematic representation of PCR amplification and DNA sequencing of a fictitious plant barcode using PCR primers with M13 tail.

<sup>\*</sup> The reverse rbcL primer is a degenerate primer in which the "R" represents any purine (i.e. either adenine or guanine).