

**Supplementary Table S2 – Loci tested in the present study, annealing temperature, primers used, length of the aligned sequences, note about the detected sequence polymorphisms and reference for the source of the primers. n.a. – not analysed due to unsuccessful amplification; SNP – single nucleotide polymorphism.**

Locus	TA [°C]	Primers	Length [bp]	Polymorphism
<b>Nuclear</b>				
ITS1-5.8S-ITS2 <sup>8</sup>	56	ITS1, ITS4	617	1 ambiguous position
<i>ppc</i> <sup>1</sup>	55	<i>PPCX4F</i> , <i>PPCX5R</i>	n.a.	unspecific amplification
<i>topo6</i> <sup>2</sup>	59	<i>top6_2F_305</i> , <i>Top6_3F_464</i> , <i>Top6_8R_1680</i>	n.a.	n.a.
<i>isi</i> <sup>3</sup>	55	<i>isi-ex3F</i> , <i>isi-ex5R</i>	n.a.	unspecific amplification
<b>Chloroplast</b>				
<i>psbM-ycf6</i> <sup>4</sup>	54	<i>ycf6F</i> , <i>psbMR</i>	917	1 SNP (A/G)
<i>trnC-ycf6</i> <sup>4</sup>	54	<i>trnC</i> <sup>GCAF</sup> , <i>ycf6R</i>	795	2 SNP (T/G; polyT)
<i>trnQ-rps16</i> <sup>5</sup>	54	<i>trnQ</i> <sup>UUG</sup> , <i>rpS16x1</i>	448	7 bp insert + 1 SNP (polyT)
<i>rps16</i> <sup>4</sup>	52	<i>rpS16F</i> , <i>rpS16R</i>	738	1 SNP (polyT)
<i>trnT-trnF</i> <sup>9</sup>	52	<i>a</i> , <i>f</i>	1581	2 SNP (A/T; polyA)
<i>trnK-matK</i> <sup>10</sup>	52	<i>3914F</i> , <i>2R</i> , <i>trnK 3R</i>	1082	1 SNP (polyT)
<i>trnD-trnT</i> <sup>4</sup>	54	<i>trnD</i> <sup>GUCF</sup> , <i>trnT</i> <sup>GGU</sup>	827	0
<i>trnD-psbM</i> <sup>4</sup>	54	<i>trnD</i> <sup>GUCR</sup> , <i>psbMF</i>	590	0
<i>trnS-trnM</i> <sup>4</sup>	55	<i>trnS</i> <sup>UGA</sup> , <i>trnM</i> <sup>CAU</sup>	978	0
<i>trnH-psbA</i> <sup>6</sup>	54	<i>psbA</i> , <i>trnH</i> :	300	0
<i>ndhF</i> <sup>7</sup>	50	<i>ndhF-913_F</i> , <i>ndhF_R</i>	913	0
<i>rpoB-trnC</i> <sup>4</sup>	54	<i>rpoB</i> , <i>trnC</i> <sup>GCAR</sup>	n.a.	n.a.
<i>trnS-trnL</i> <sup>4</sup>	50	<i>trnS</i> <sup>GGA</sup> , <i>trnL</i> <sup>UAA</sup>	n.a.	n.a.
<i>rpl16</i> <sup>4</sup>	50	<i>rpL16F71</i> , <i>rpL16R1516</i>	n.a.	n.a.
<i>petL-psbE</i> <sup>5</sup>	54	<i>petL</i> , <i>psbE</i>	n.a.	n.a.

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<sup>6</sup> Tate J. A. (2002) Systematics and evolution of *Tarasa* (Malvaceae): an enigmatic Andean polyploid genus. Ph.D. dissertation. The University of Texas at Austin

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