

Table S2. Gene information of the different functional categories of 20 *Sorbus* plastomes

Function of Genes	Group of Genes	Gene name
Photosynthesis	Photosystem I	<i>psaA, psaB, psaC, psaI, psaJ</i>
	Photosystem II	<i>psbA, psbB, psbC, psbD, psbE, psbF, psbH, psbI, psbJ, psbK, psbL, psbM, psbN, psbT, psbZ</i>
	Cytochrome b/f complex	<i>petA, petB^a, petD^a, petG, petL, petN</i>
	ATP synthase	<i>atpA, atpB, atpE, atpF^a, atpH, atpI</i>
	NADH-dehydrogenase	<i>ndhA^a, ndhB^a, ndhC, ndhD, ndhE, ndhF, ndhG, ndhH, ndhI, ndhJ, ndhK</i>
	Large subunit Rubisco	<i>rbcL</i>
Protein synthesis and DNA-replication	Subunits of RNA polymerase	<i>rpoA, rpoB, rpoC1^a, rpoC2</i>
	Ribosomal protein small subunit	<i>rps2, rps3, rps4, rps7[*], rps8, rps11, rps12^{*b}, rps14, rps15, rps16^a, rps18, rps19</i>
	Ribosomal protein large subunit	<i>rpl2^{*a}, rpl14, rpl16^a, rpl20, rpl22, rpl23[*], rpl32, rpl33, rpl36</i>
	Transfer RNAs	<i>trnA-UGC^{*a}, trnC-GCA, trnD-GUC, trnE-UUC, trnF-GAA, trnG^a-CAU, trnG-GCC, trnG-UCC^a, trnH-GUG, trnI-CAU[*], trnI-GAU^{*a}, trnK-UUU^a, trnL-CAA[*], trnL-UAA^a, trnL-UAG, trnM-CAU, trnN-GUU[*], trnP-UGG, trnQ-UUG, trnR-ACG[*], trnR-UCU, trnS-GCU, trnS-GGA, trnS-UGA, trnT-GGU, trnT-UGU, trnV-GAC[*], trnV-UAC^a, trnW-CCA, trnY-GUA</i>
	Ribosomal RNAs	<i>rrn4.5[*], rrn5[*], rrn16[*], rrn23[*]</i>
Other genes	Maturase	<i>matK</i>
	Translation initiation factor	<i>infA</i>
	C-type cytochrome synthesis gene	<i>ccsA</i>
	Acetyl-CoA-carboxylase	<i>accD</i>
	Inner membrane protein	<i>cemA</i>
	ATP-dependent protease	<i>clpP^b</i>
Genes of unknown function	Conserved hypothetical gene	<i>ycf1, ycf2[*], ycf3^b, ycf4</i>

Note: * indicates the duplicated gene number of repeat units is 2; ^aGene contains a single intron; ^bGene contains two introns