S2 Table. Genes encoded in the *Lathraea squamaria* and *Lindenbergia philippensis* plastomes. [a] containing one intron, [b] containing two introns, [c] genes in the IR regions (i.e., duplicated), *pseudogenes

Functional category	Group of genes	*Lathraea squamaria*	*Lindenbergia philippensis*
Protein synthesis and DNA-replication	rRNA genes	*rrn16*[c], *rrn23*[c], *rrn4.5*[c], *rrn5*[c]	*rrn16*[c], *rrn23*[c], *rrn4.5*[c], *rrn5*[c],
	tRNA genes	*trnA-UGC*[ac], *trnC-GCA*, *trnD-GUC*, *trnE-UUC*, *trnH-GUG*, *trnF-GAA*, *trnG-GCC*, *trnG-UCC*[a], *trnI-GAU*[ac], *trnI-CAU*[c], *trnK-UUU*[a], *trnL-CAA*[c], *trnL-UAA*[a], *trnL-UAG*, *trnfM-CAU*, *trnM-CAU*, *trnN-GUU*[c], *trnP-UGG*, *trnQ-UUG*, *trnR-ACG*[c], *trnR-UCU*, *trnS-GCU*, *trnS-GGA*, *trnS-GCU*, *trnT-GGU*, *trnT-UGU*, *trnV-GAC*[c], *trnV-UAC*, *trnW-CCA*, *trnY-GUA*	*trnA-UGC*[ac], *trnC-GCA*, *trnD-GUC*, *trnE-UUC*, *trnH-GUG*, *trnF-GAA*, *trnG-GCC*, *trnG-UCC*[a], *trnI-GAU*[ac], *trnI-CAU*[c], *trnK-UUU*[a], *trnL-CAA*[c], *trnL-UAA*[a], *trnL-UAG*, *trnfM-CAU*, *trnM-CAU*, *trnN-GUU*[c], *trnP-UGG*, *trnQ-UUG*, *trnR-ACG*[c], *trnR-UCU*, *trnS-GCU*, *trnS-GGA*, *trnS-GCU*, *trnT-GGU*, *trnT-UGU*, *trnV-GAC*[c], *trnV-UAC*, *trnW-CCA*, *trnY-GUA*
	Ribosomal small subunit	*rps2*, *rps3*, *rps4*, *rps7*[c], *rps8*, *rps11*, *rps12_5'end*, *rps12_3'end*[ac], *rps14*, *rps15*, *rps16*[a], *rps18*, *rps19**	*rps2*, *rps3*, *rps4*, *rps7*[c], *rps8*, *rps11*, *rps12_5'end*, *rps12_3'end*[ac], *rps14*, *rps15*, *rps16*[a], *rps18*, *rps19*
	Ribosomal large subunit	*rpl2*[ac], *rpl14*, *rpl16*[a], *rpl20*, *rpl22*, *rpl23**[c], *rpl32*, *rpl33*, *rpl36*	*rpl2*[ac], *rpl14*, *rpl16*[a], *rpl20*, *rpl22*, *rpl23*[c], *rpl32*, *rpl33*, *rpl36*
	DNA-dependent RNA polymerase	*rpoA**, *rpoB*, *rpoC1*[a], *rpoC2**	*rpoA*, *rpoB*, *rpoC1*[a], *rpoC2*
Photosynthesis	Large subunit of rubisco	*rbcL**	*rbcL*
	Photosystem I	*psaA**, *psaB**, *psaC*, *psaI*, *psaJ**	*psaA*, *psaB*, *psaC*, *psaI*, *psaJ*
	Photosystem II	*psbA**, *psbB**, *psbC**, *psbD**, *psbE*, *psbF*, *psbH**, *psbI**, *psbJ**, *psbK*, *psbL*, *psbM*, *psbN*, *psbT**, *psbZ*	*psbA*, *psbB*, *psbC*, *psbD*, *psbE*, *psbF*, *psbH*, *psbI*, *psbJ*, *psbK*, *psbL*, *psbM*, *psbN*, *psbT*, *psbZ*
	NADH	*ndhA**, *ndhB**[c], *ndhC*, *ndhD**,	*ndhA ndhJ*, *ndhK*, *ndhC*,

	dehydrogenase	*ndhE*, *ndhF**, *ndhG**, *ndhH**, *ndhI**, *ndhJ**, *ndhK**	*ndhB*[ac], *ndhF*, *ndhI*, *ndhH*, *ndhD ndhE*, *ndhG*
	Cytochrome b/f complex	*petA**, *petB**, *petD**, *petG**, *petN*	*petA*, *petB*[a], *petD*[a], *petG*, *petL*, *petN*
	ATP synthase	*atpA*, *atpB*, *atpE*, *atpF*[a], *atpH*, *atpI*	*atpA*, *atpB*, *atpE*, *atpF*[a], *atpH*, *atpI*
Other	Maturase	*matK*	*matK*
	Subunit of acetyl-CoA carboxylase	*accD*	*accD*
	Membrane protein	*cemA**	*cemA*
	Protease	*clpP*[b]	*clpP*[b]
	Translational initiation factor	*infA*	*infA*
	c-type cytochrome synthesis	*ccsA**	*ccsA*
	Conserved open reading frames (*ycf*)	*ycf1*, *ycf1**, *ycf2*[c], *ycf3*[b], *ycf4**	*ycf1*, *ycf1**, *ycf2*[c], *ycf3*[b], *ycf4*