

## Supplementary Material to “Phylogenomic Analysis of *Dichrocephala benthamii* and Comparative Analysis within Tribe Astereae (Asteraceae)”

**Table S2** - List of genes found in *D. benthamii*.

Category of Genes	Group of Genes	Name of Genes	Number of genes
	Subunits of photosystem I	<i>psaA, psaB, psaC, psaI, psaJ</i>	5
	Subunits of photosystem II	<i>psbA, psbB, psbC, psbD, psbE, psbF, psbH, psbI, psbJ, psbK, psbL, psbM, psbN, psbT, psbZ</i>	15
Photosynthesis	Subunits of NADH dehydrogenase	<i>ndhA*, ndhB*(x2), ndhC, ndhD, ndhE, ndhF, ndhG, ndhH, ndhI, ndhJ, ndhK</i>	12
	Subunits of cytochrome b/f complex	<i>petA, petB*, petD*, petG, petL, petN</i>	6
	Subunits of ATP synthase	<i>atpA, atpB, atpE, atpF*, atpH, atpI</i>	6
	Large subunit of rubisco	<i>rbcL</i>	1
	Proteins of large ribosomal subunit	<i>rpl14, rpl16, rpl2*(x2), rpl20, rpl22, rpl23(x2), rpl32, rpl33, rpl36</i>	11
Self-replication	Proteins of small ribosomal subunit	<i>#rps19, rps11, rps12**(x2), rps14, rps15, rps16*, rps18, rps19, rps2, rps3, rps4, rps7(x2), rps8</i>	15
	Subunits of RNA polymerase	<i>rpoA, rpoB, rpoC1*, rpoC2</i>	4

Category of Genes	Group of Genes	Name of Genes	Number of genes
	Ribosomal RNAs	<i>rrn16(x2), rrn23(x2), rrn4.5(x2), rrn5(x2)</i>	8
	Transfer RNAs	<i>trnA-UGC*(2), trnC-GCA, trnD-GUC, trnE-UUC, trnF-GAA, trnG*, trnG-UCC, trnH-GUG, trnI-CAU(2), trnI-GAU*(2), trnK-UUU*, trnL-CAA(2), trnL-UAA, trnL-UAA*, trnL-UAG, trnM-CAU, trnN-GUU(2), trnP-UGG, trnQ-UUG, trnR-ACG(2), trnR-UCU, trnS-GCU, trnS-GGA, trnS-UGA, trnT-GGU, trnT-UGU, trnV-GAC(2), trnV-UAC*, trnW-CCA, trnY-GUA, trnM-CAU</i>	38
	Maturase	<i>matK</i>	1
	Protease	<i>clpP**</i>	1
Other genes	Envelope membrane protein	<i>cemA</i>	1
	Acetyl-CoA carboxylase	<i>accD</i>	1
	c-type cytochrome synthesis gene	<i>ccsA</i>	1
	Translation initiation factor	<i>infA</i>	1
Genes of unknown function	Conserved hypothetical chloroplast ORF	<i>#ycf1, ycf1, ycf15(2), ycf2(2), ycf3**, ycf4</i>	8

Notes: \*Gene contains one intron. \*\*Gene contains two introns. #: Pseudo gene. (×2) indicates the number of the repeat unit is 2.