

## Supplementary data

**Comparison and analysis of transcriptome profiles of haploid and diploid *Populus* by digital gene expression**Xuliang Mao<sup>1</sup>, Xuemei Xu<sup>2</sup>, Haizhen Zhang<sup>1</sup>, Jingli Yang<sup>1,3\*</sup>, Zhanchao Wang<sup>1</sup>, Chenghao Li<sup>1,\*</sup>**Supplemental Table 1.** Terms from the Component Ontology with p-value as good or better than 1.

GO term	Cluster frequency	
	DEGs of HP shoot tip vs. DP shoot tip	DEGs of HP leaf vs. DP leaf
photosynthetic membrane	32 out of 2461 genes, 1.3%	51 out of 2112 genes, 2.4%
photosystem	26 out of 2461 genes, 1.1%	40 out of 2112 genes, 1.9%
photosystem I	7 out of 2461 genes, 0.3%	9 out of 2112 genes, 0.4%
mitochondrial part	47 out of 2461 genes, 1.9%	29 out of 2112 genes, 1.4%
photosystem II	11 out of 2461 genes, 0.4%	19 out of 2112 genes, 0.9%
plastid part	484 out of 2461 genes, 19.7%	293 out of 2112 genes, 13.9%
chloroplast part	103 out of 2461 genes, 4.2%	157 out of 2112 genes, 7.4%
mitochondrion	47 out of 2461 genes, 1.9%	30 out of 2112 genes, 1.4%
chloroplast thylakoid	88 out of 2461 genes, 3.6%	144 out of 2112 genes, 6.8%
microbody	47 out of 2461 genes, 1.9%	51 out of 2112 genes, 2.4%
peroxisome	10 out of 2461 genes, 0.4%	8 out of 2112 genes, 0.4%
Golgi apparatus	17 out of 2461 genes, 0.7%	9 out of 2112 genes, 0.4%
endoplasmic reticulum part	14 out of 2461 genes, 0.6%	10 out of 2112 genes, 0.5%
microbody part	4 out of 2461 genes, 0.2%	5 out of 2112 genes, 0.2%

Cluster frequency: Percentage of DEGs annotated to this GO term account for all DEGs annotated to Process Ontology