

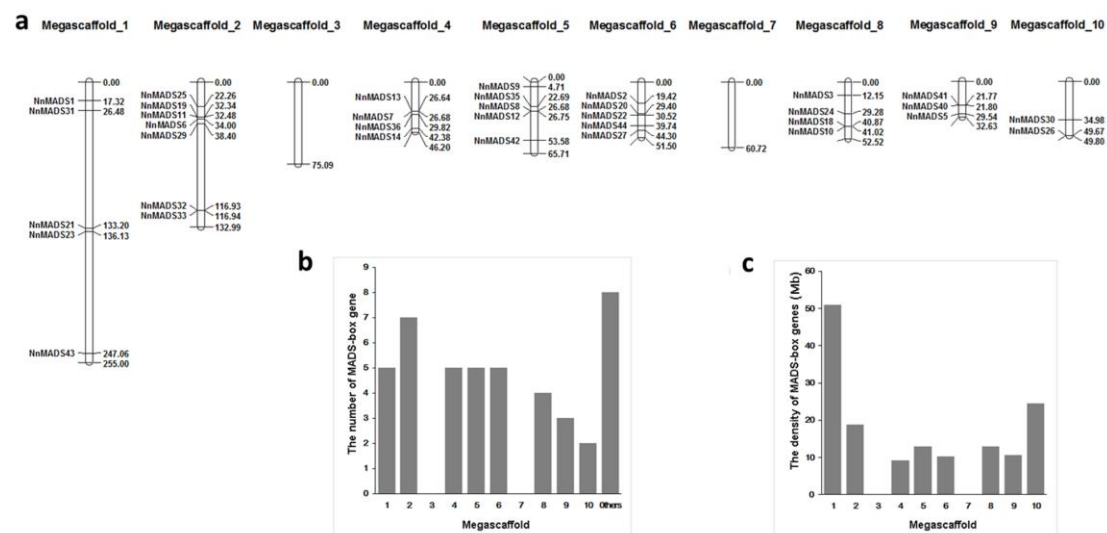


Figure S1. Distribution of MADS-box genes in lotus genome. **a** Mapping of the *NnMADS* genes in megascraft-1~10 of lotus genome. The unit of the length is Mb. **b** The number of *NnMADS* genes in each megascraft. **c** The density of MADS-box genes in megascraft -1~10. The unit is Mb/gene.

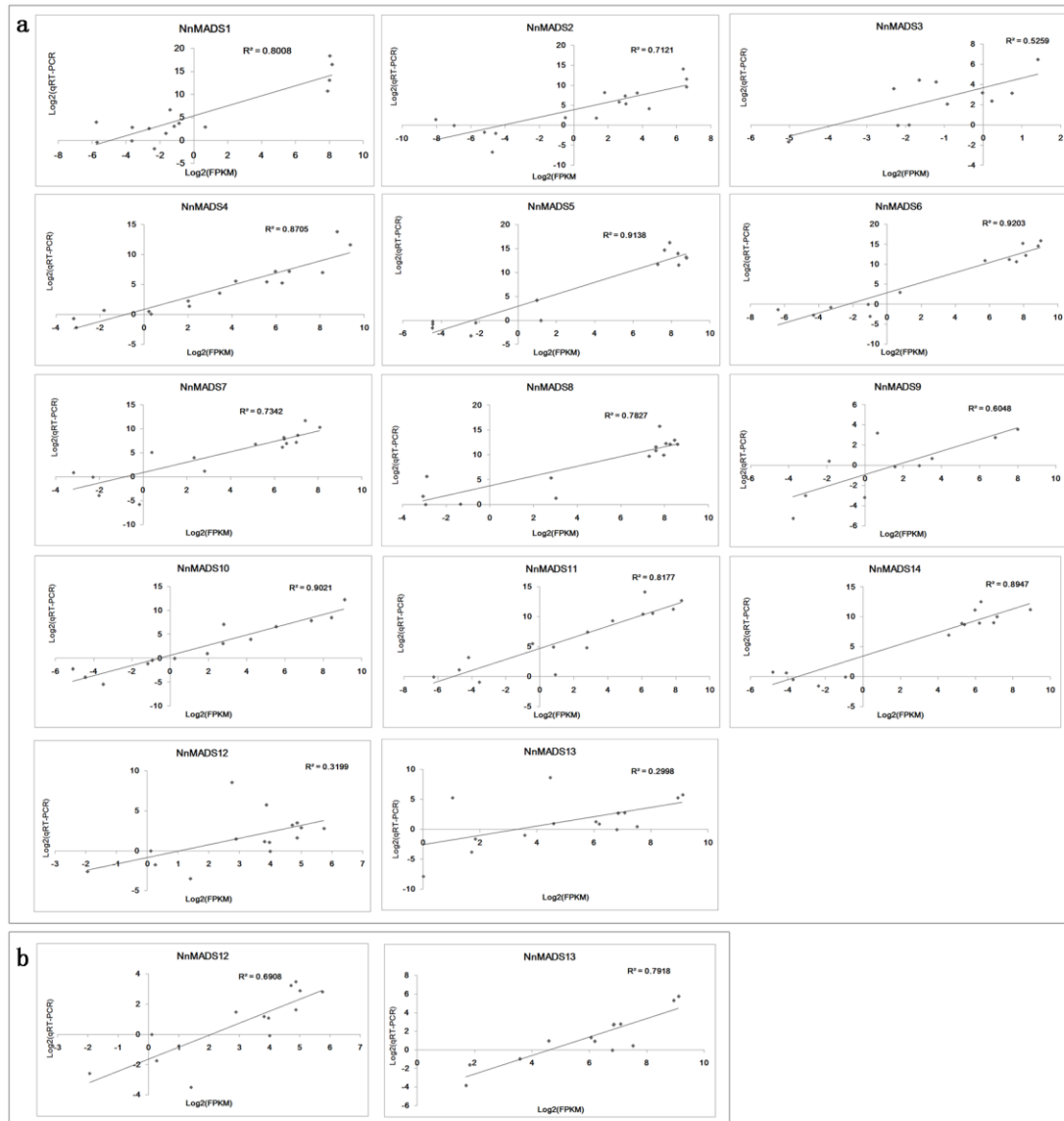


Figure S2. The correlation analysis of RNA-seq and qRT-PCR data. a The correlation of fourteen MADS-box genes in lotus tissues. **b** The correlation of NnMADS12 and NnMADS13 after removing two off-line data. The low expression or not detected data were not considered.

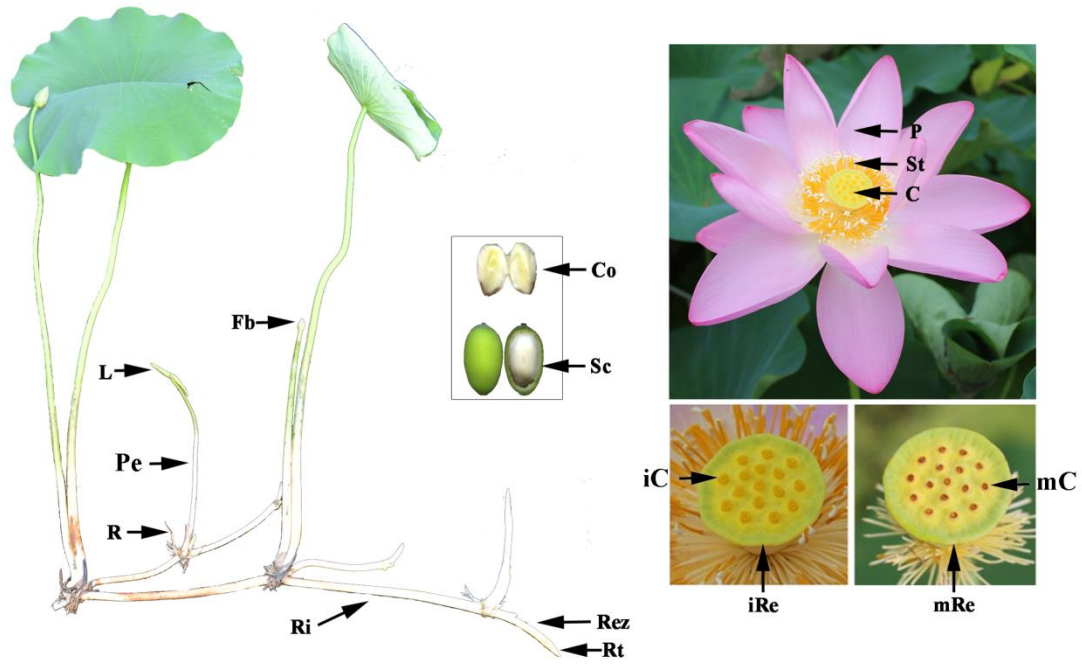


Figure S3. The different tissues of *N. nucifera*. L: Leaf; four parts of rhizome, such as Pe: Petiole, Rt: rhizome tip, Rez: Rhizome elongation zone, Ri: Rhizome internode; R: Root; Fb: Flower bud; P: Petal; St: Stamen; C: carpel; iRe: immature Receptacle; mRe: mature Receptacle; Sc: Seed coat; Co: Cotyledon.