

Appendix S12. Phylogram emerging from an ML analysis of plastome-scale data for all taxa sampled, including *Thlasia* (Thismaceae). Branch support values are 100% except where noted. Names and vertical lines indicate monocot families and subfamilies, as well as tribes of Orchidaceae. The placement of “*Kuntheria*” in *Lilium* in Figs. S11 and S12 apparently reflects a lab error; comparison with published data suggests that the sample sequenced actually was *L. lancifolium* or a close relative.

