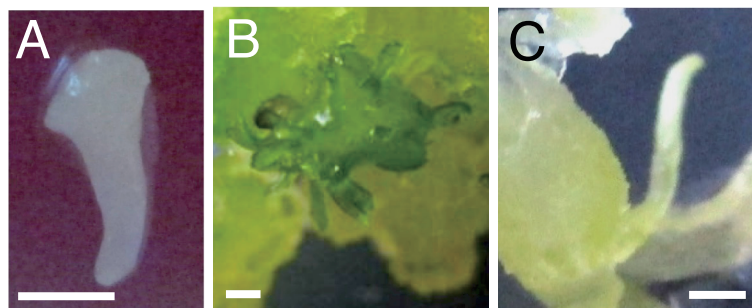


**Supplementary Figure S1** Morphologies of calli of six Apiaceae species  
Calli were induced from hypocotyl explants of anise (A), carrot (B), fennel (C), dill (D), parsley (E), and coriander (F) by culturing in MSD semi-solid medium for 2–3 months. Bar: 5 mm.



**Supplementary Figure S2** Morphologies of somatic embryo, bud, and root in anise

Somatic embryo (A), bud (B), and root (C) were formed from anise callus by culturing in MSD semi-solid medium for more than 2 weeks. Bar: 1 mm.