**Figure S1.** Branch specific diversification parameter estimates for *Ipomoea*. a) diversification parameter estimates with a posterior probability >= 0.05 when only *λ* can vary among branches, b) diversification parameter estimates with a posterior probability >= 0.05 when *λ* and *µ* can vary among branches, c) diversification parameter estimates with a posterior probability >= 0.05 when only *µ* can vary among branches, d) diversification parameter estimates with a posterior probability >= 0.05 when only *λ* can vary among branches and there is no input tree, e) diversification parameter estimates with a posterior probability >= 0.05 when *λ* and *µ* can vary among branches and there is no input tree, f) diversification parameter estimates with a posterior probability >= 0.05 when only *µ* can vary among branches and there is no input tree.