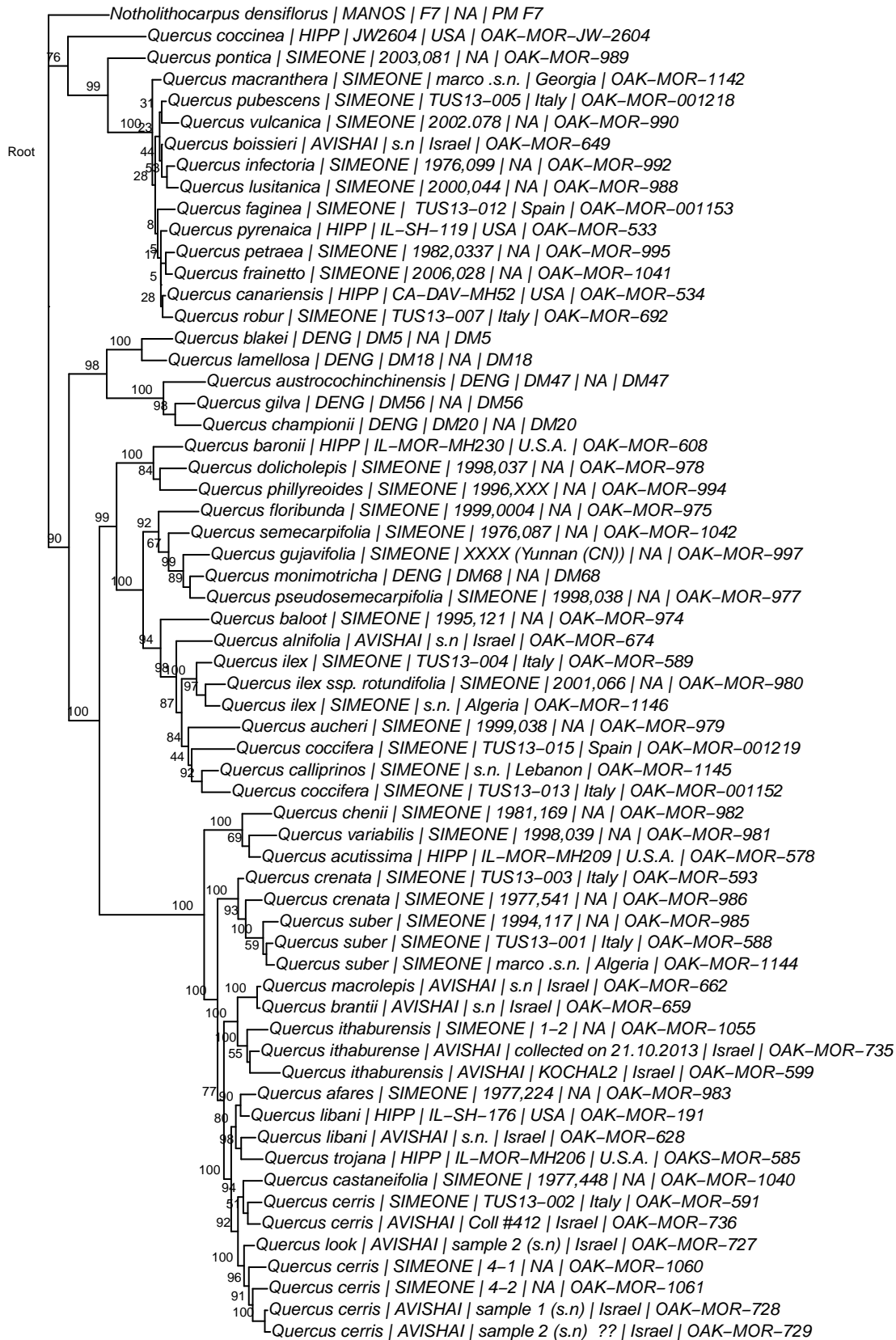


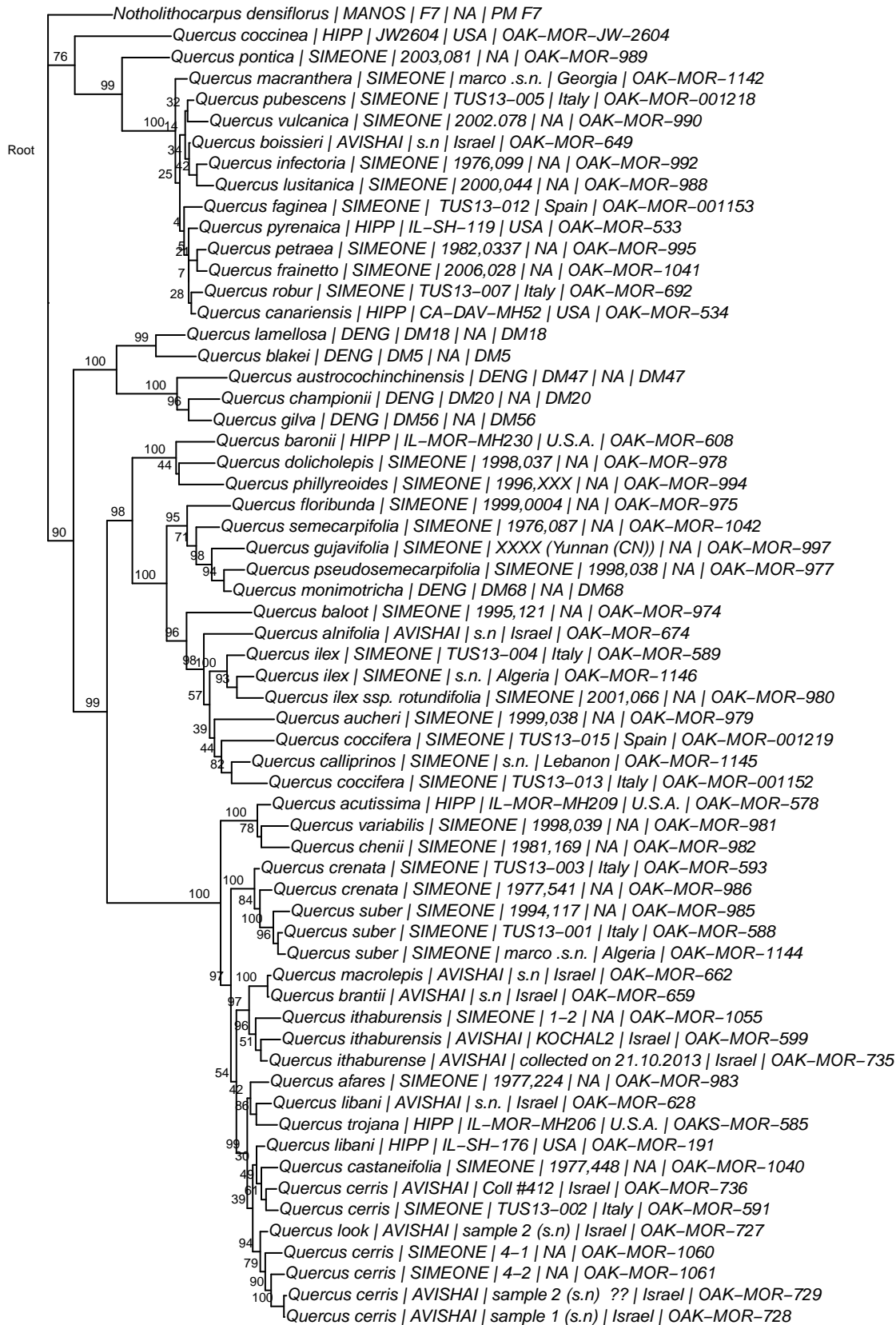
**Supplementary Figure 1.** Raw maximum Likelihood tree inferred from the m20 RAD-Seq data (3145 loci, 277,006 aligned nucleotide positions, and 58.2% missing data), rooted with *Notholithocarpus*. Numbers at branches indicate non-parametric bootstrap support.

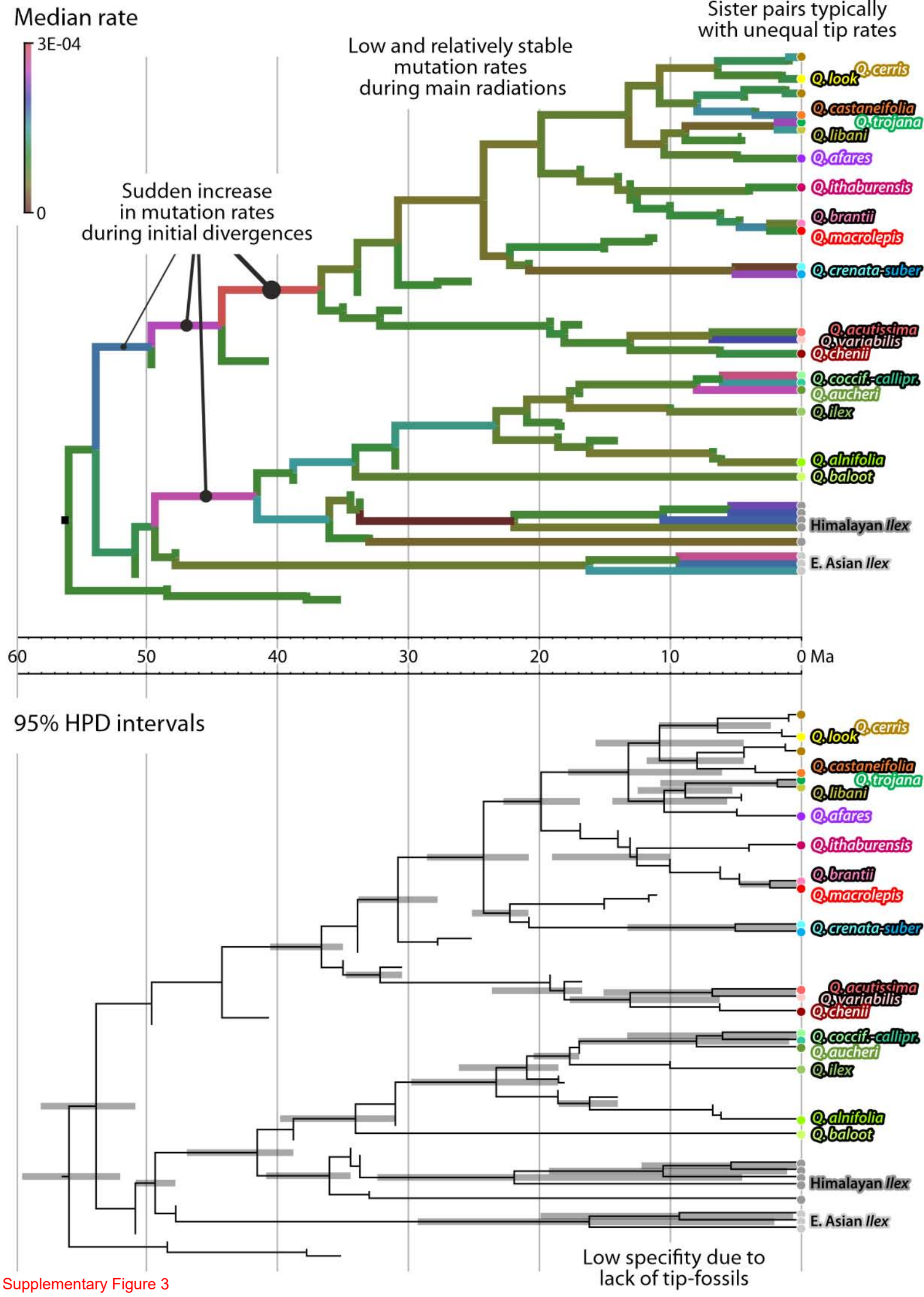
**Supplementary Figure 2.** Raw maximum Likelihood tree inferred from the m25 RAD-Seq data (1132 loci, 100,841 aligned nucleotide positions, and 46.4% missing data), rooted with *Notholithocarpus*. Numbers at branches indicate non-parametric bootstrap support.

**Supplementary Figure 3.** Same dated phylogenetic tree as shown in main-text Figure 3 (first of three runs). Top: chronogram with fossil-species included (unlabelled tips) and branches coloured according to the estimated median substitution rates. Bottom: chronogram showing the 95% HPD intervals for inferred species divergences of extant species.

**Supplementary Figure 4.** Maximum likelihood mapping of preferred Köppen climates on the chronogram of the first run (main-text Fig. 3); scored as five categories: Moist-Subtropical, Meridio-Nemoral, Nemoral, Meridional, Full-Mediterranean. Large pie charts give proportional likelihoods for most-recent common ancestors (MRCAs) of modern-day species (at nodes) and (along branches) additional (shadow) MRCAs inferred by using fossil-taxa (stars connected to tree) to break down subsequent branches. Coloured outlines of stars indicate the provenance of included fossil-taxa and fossil-taxa that could not be clearly assigned to a branch in the dated tree (unconnected stars). Small pie charts above big charts give the results when only modern-day states are considered.









Supplementary Figure 4

