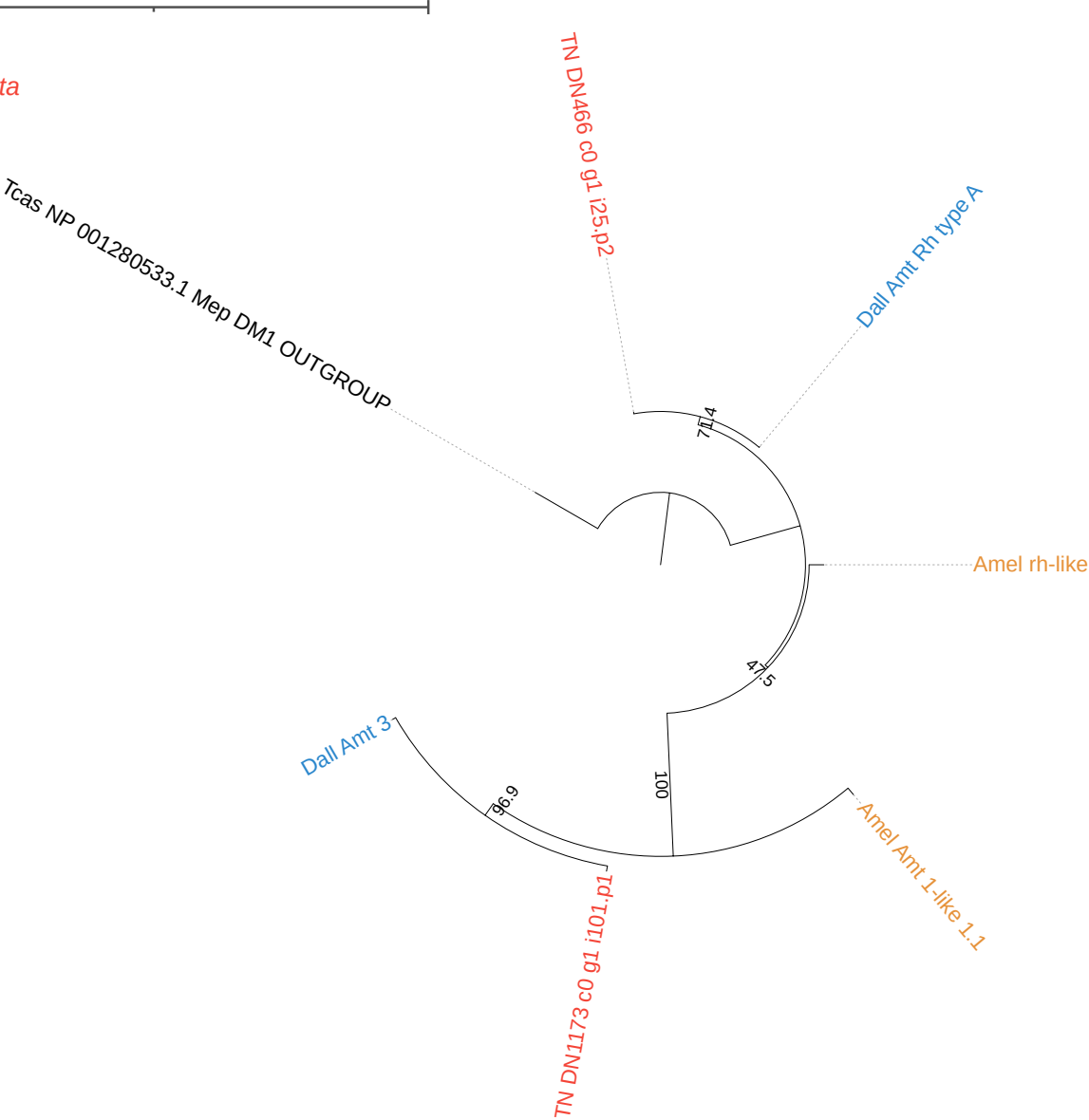


Additional File 5: Supplementary Figure S2. Phylogenetic analysis by Maximum Likelihood estimation of sensory-related gene families. Those receptors up- or downregulated between the female and male antenna were differentiated with a red and blue tag, respectively. Color code: *D. longicaudata* (Dlon, red), *D. alloeum* (Dall, blue), *A. mellifera* (Amel, yellow), and *T. castaneum* as a outgroup (Tcas, black). **(A)** ammonium transporters (AMTs); **(B)** chemosensory proteins (CSPs); **(C)** gustatory receptors (GRs); **(D)** ionotropic receptors (IRs); **(E)** Neimann-Pick type C2 like proteins (NPC2-like); **(F)** odorant-binding proteins (OBPs); **(G)** pickpocket receptors (PPKs); **(H)** CD36-sensory neuron membrane proteins (CD36/SNMPs); and **(I)** transient receptor potential channels (TRPs). Abbreviations: LK: like, UNCH: uncharacterized.

Tree scale: 10

A.AMTs

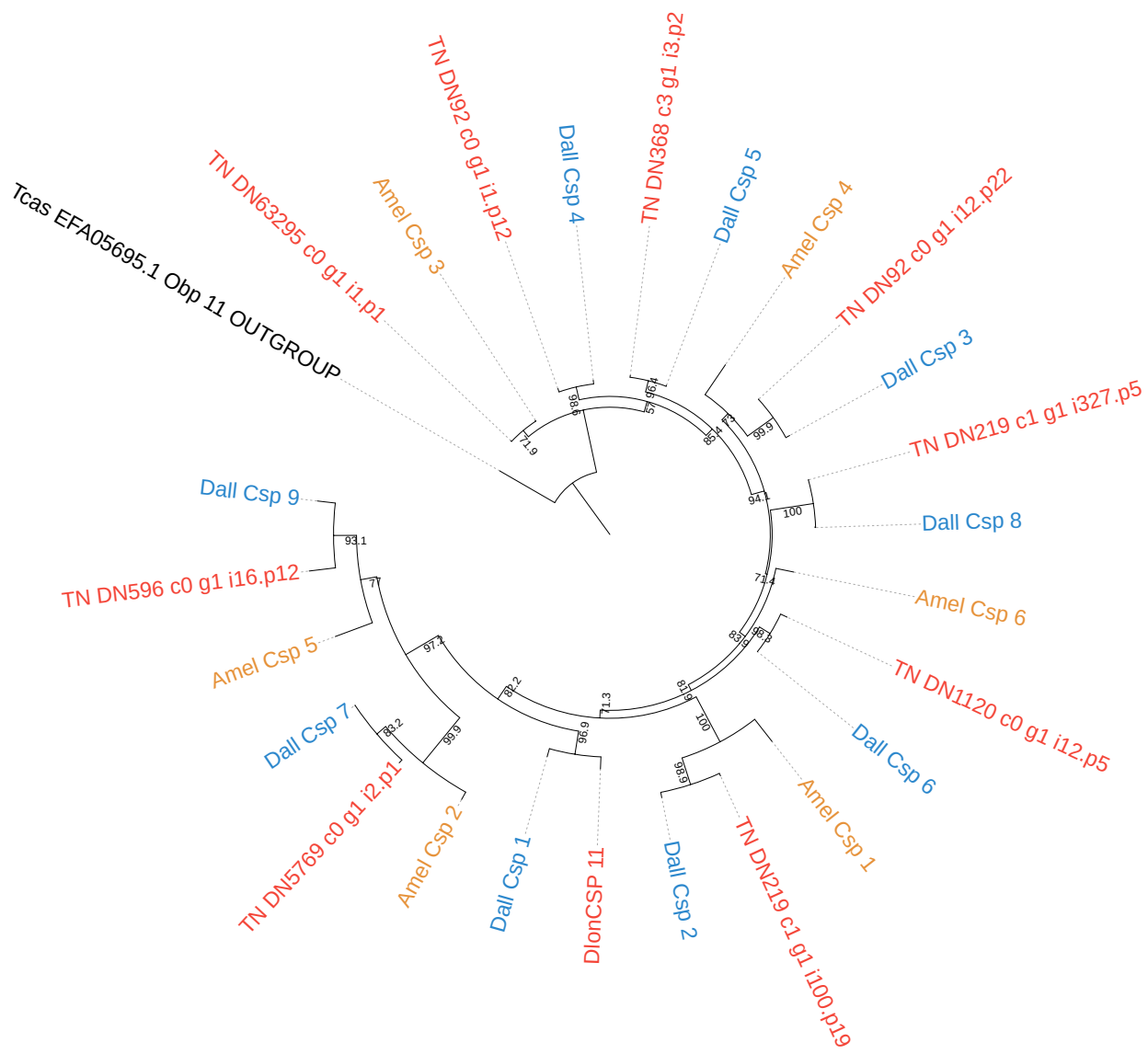
Diachasmimorpha longicaudata
Diachasma alloeum
Apis mellifera



Tree scale: 10

B.CSPs

Diachasmimorpha longicaudata
Diachasma alloeum
Apis mellifera



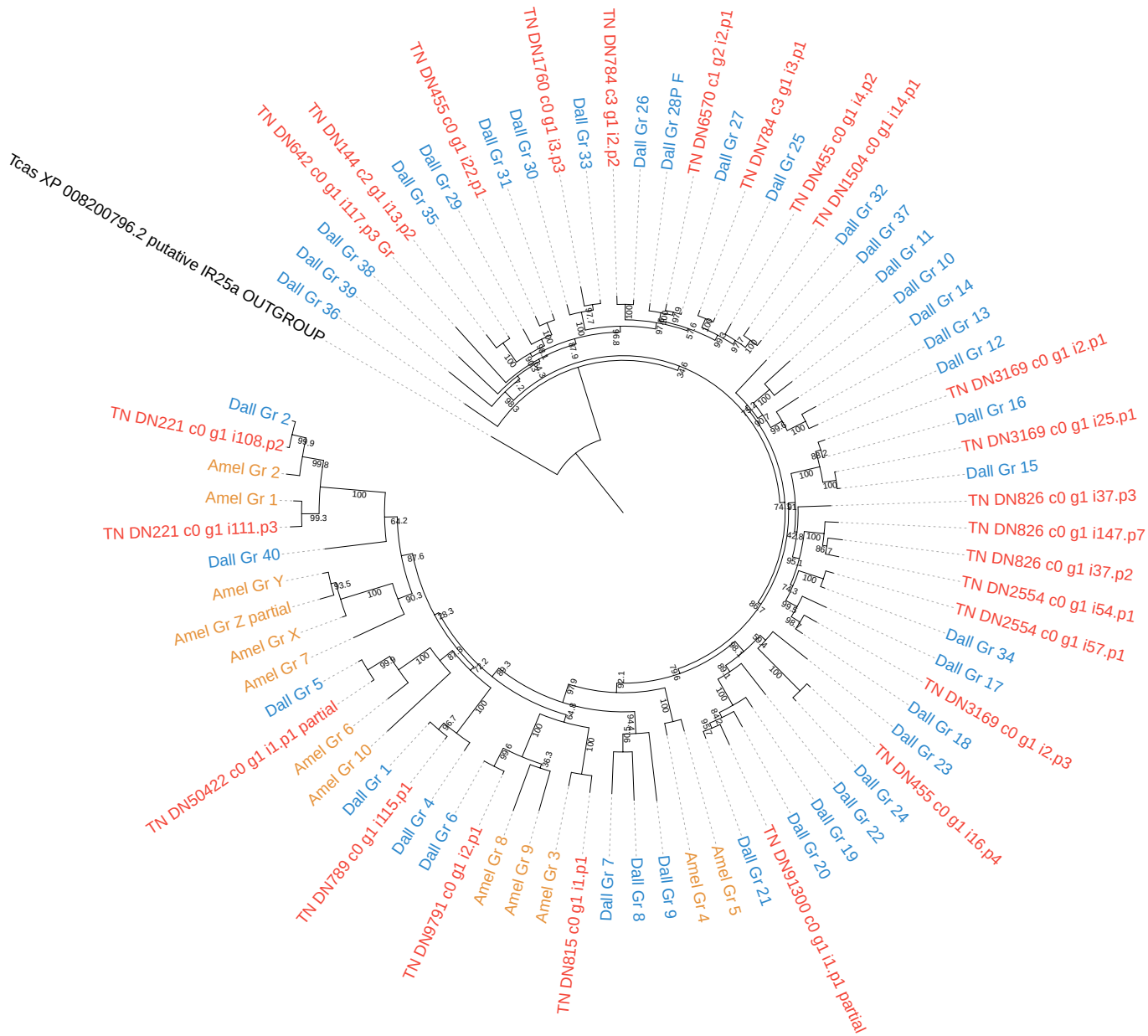
Tree scale: 10

C.GRs

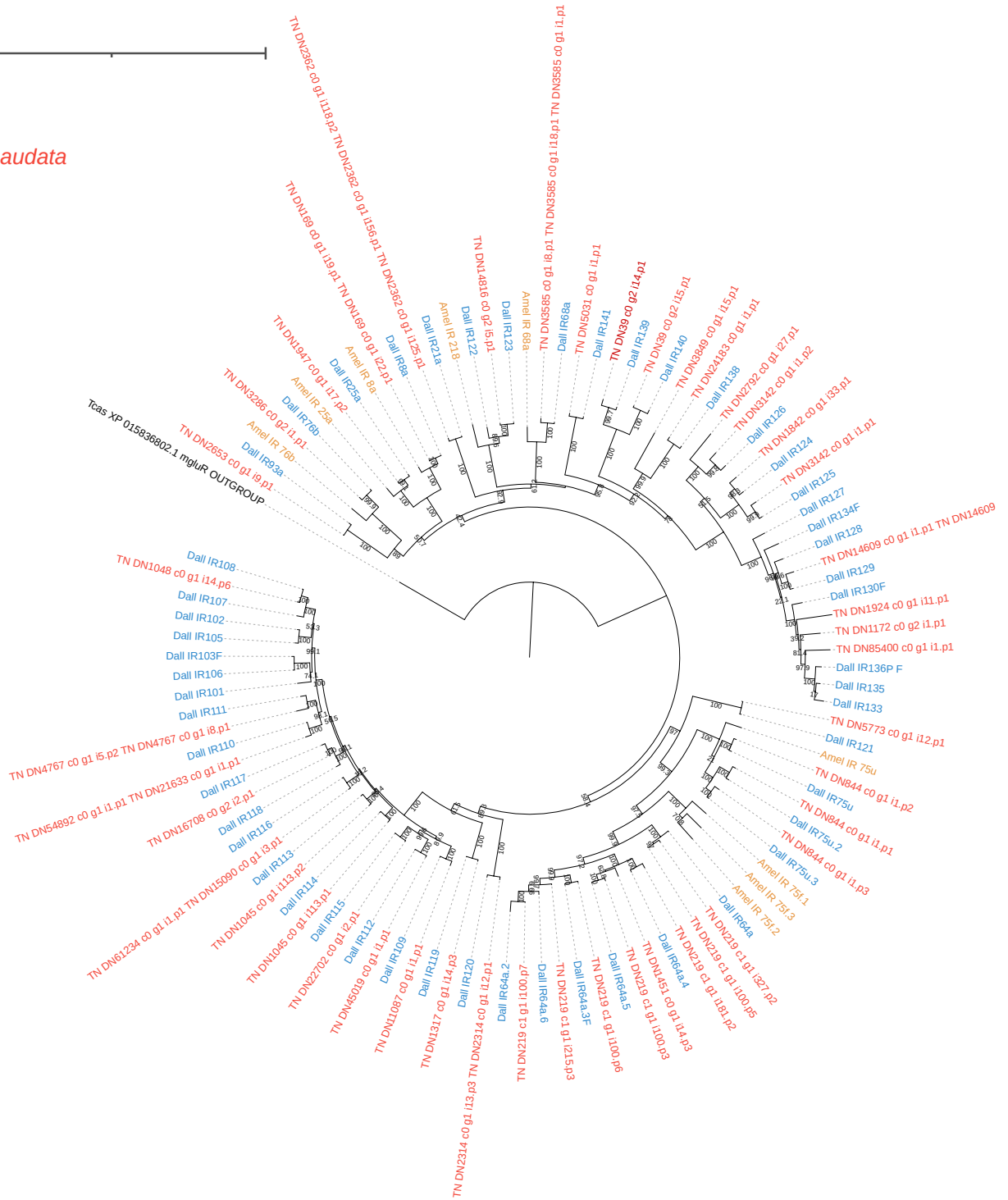
Diachasmimorpha longicaudata

Diachasma alloeum

Apis mellifera



Dichasmimorpha longicaudata
Diachasma alloeum
Apis mellifera



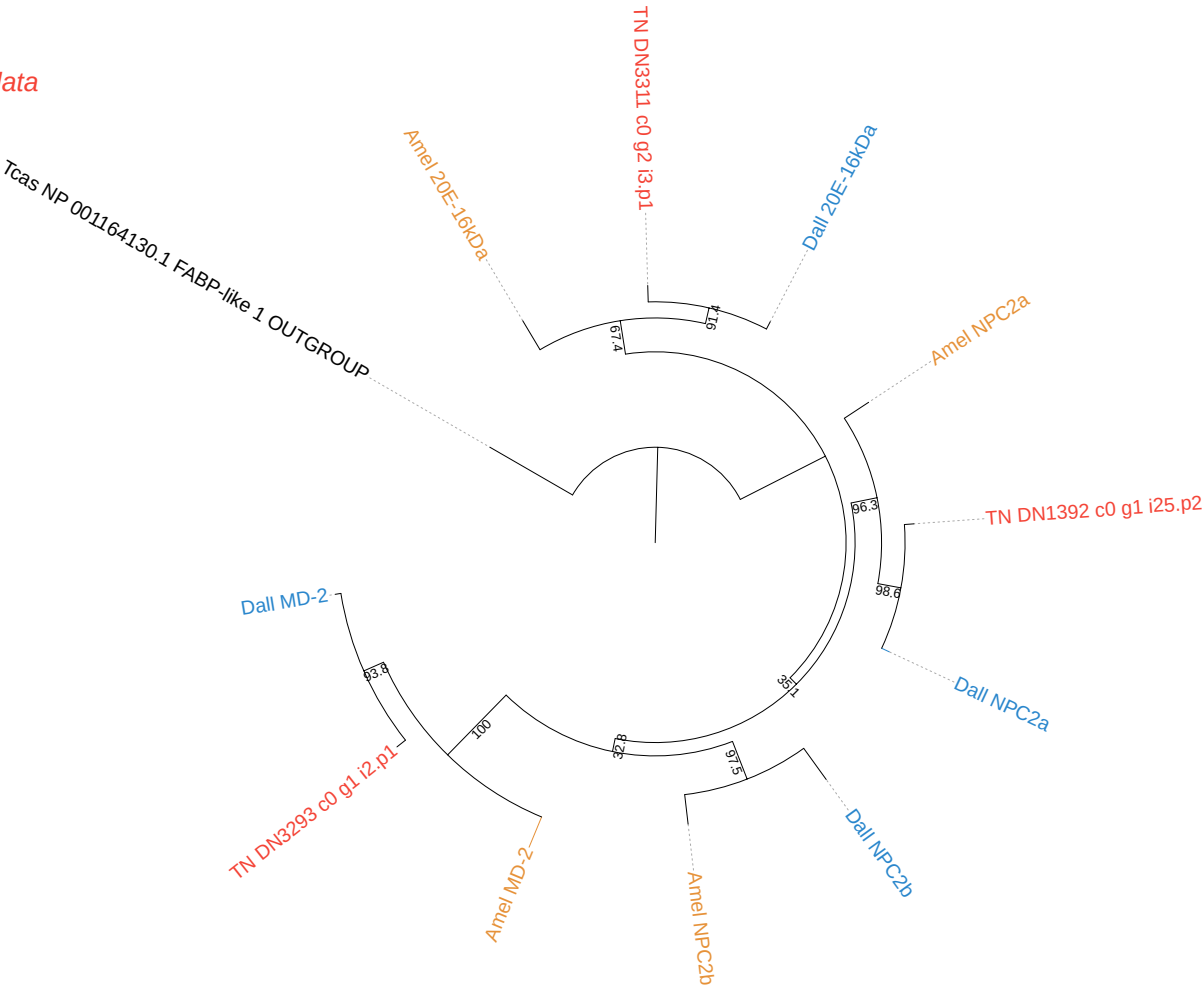
Tree scale: 1

E.NPC2-like

Dichasmimorpha longicaudata

Diachasma alloeum

Apis mellifera



Tree scale: 10

F.OBPs

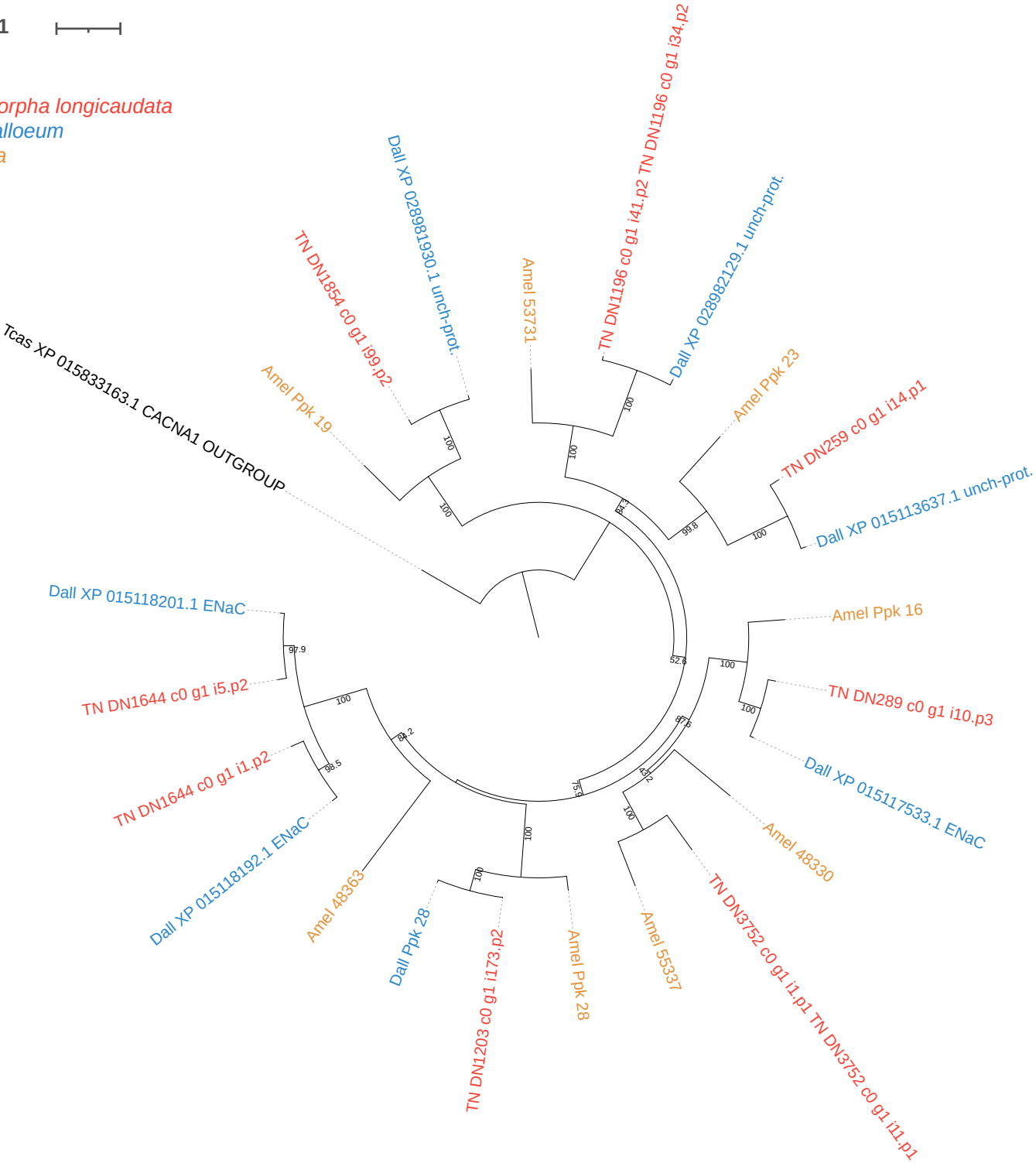
Diachasmimorpha longicaudata
Diachasma alloeum
Apis mellifera



Tree scale: 1

G.PPKs

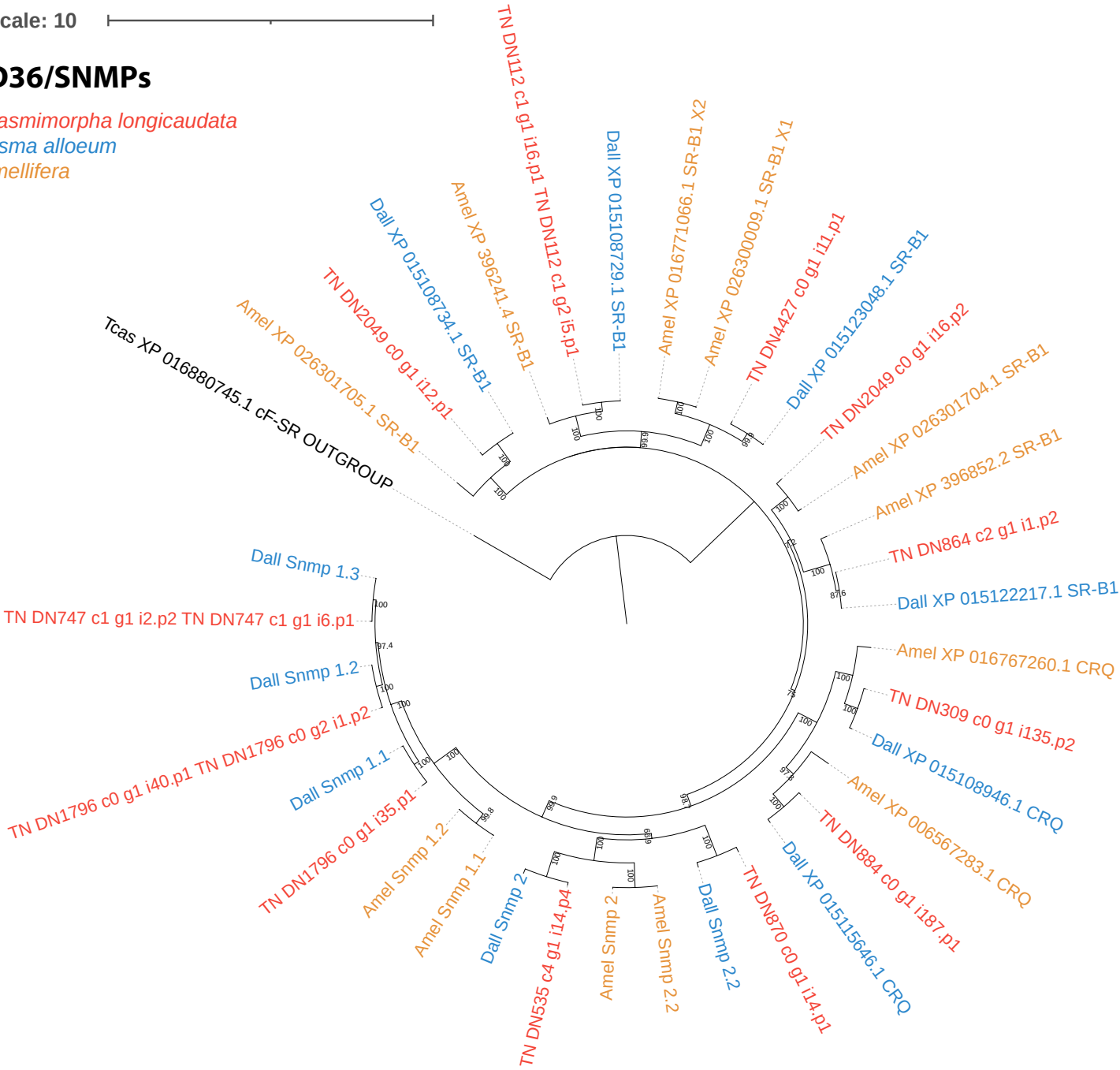
Diachasmimorpha longicaudata
Diachasma alloeum
Apis mellifera



Tree scale: 10

H.CD36/SNMPs

Diachasmimorpha longicaudata
Dichasma alloeum
Apis mellifera



Tree scale: 10

I.TPRs

Dichasmimorpha longicaudata
Diachasma alloeum
Apis mellifera

