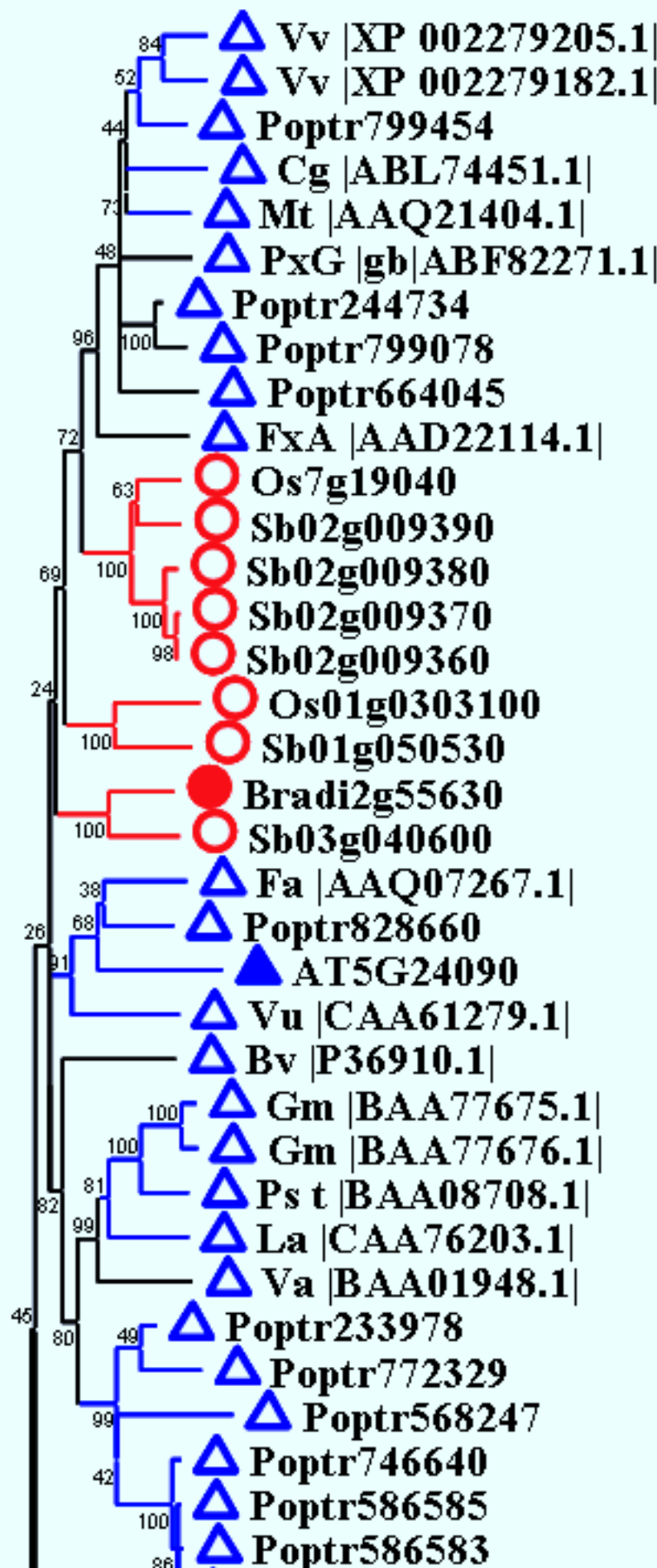
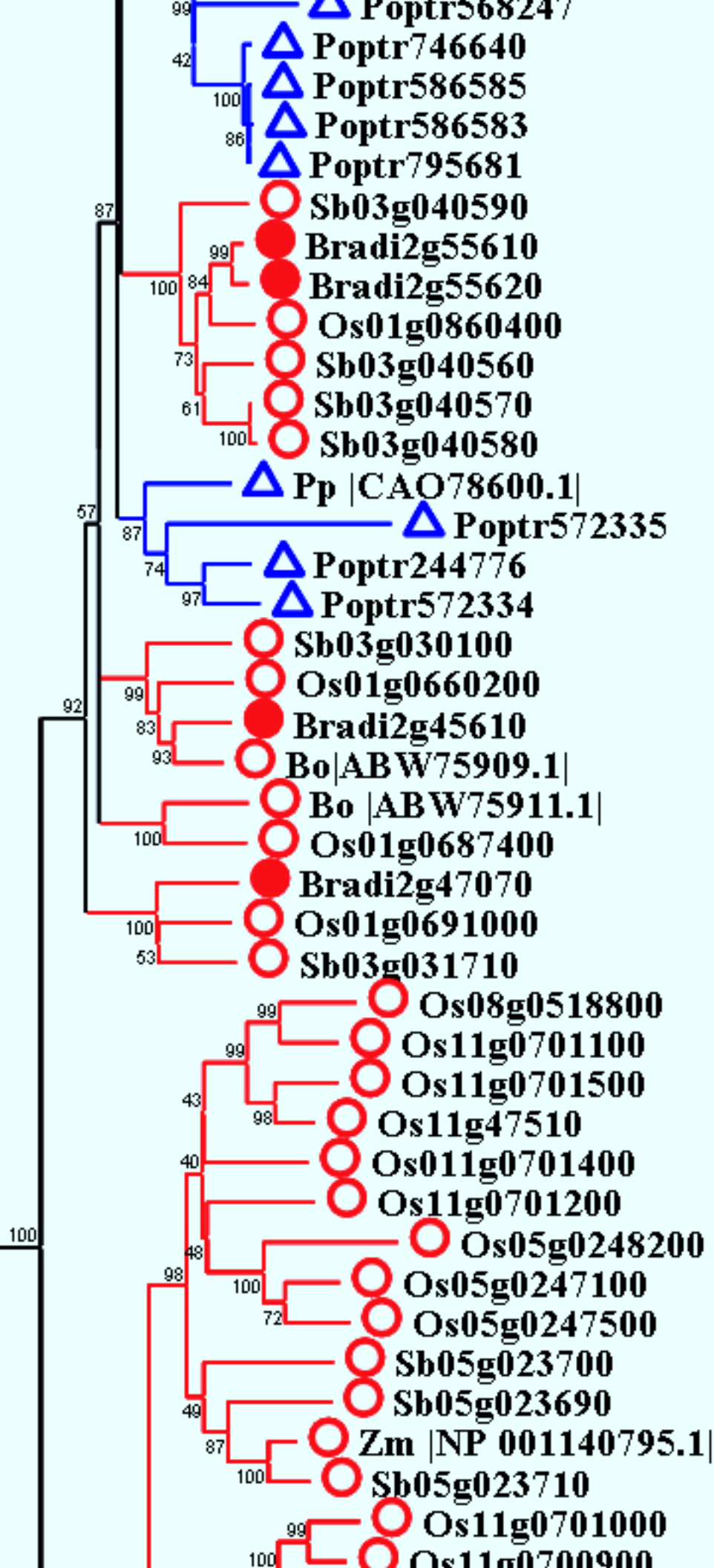
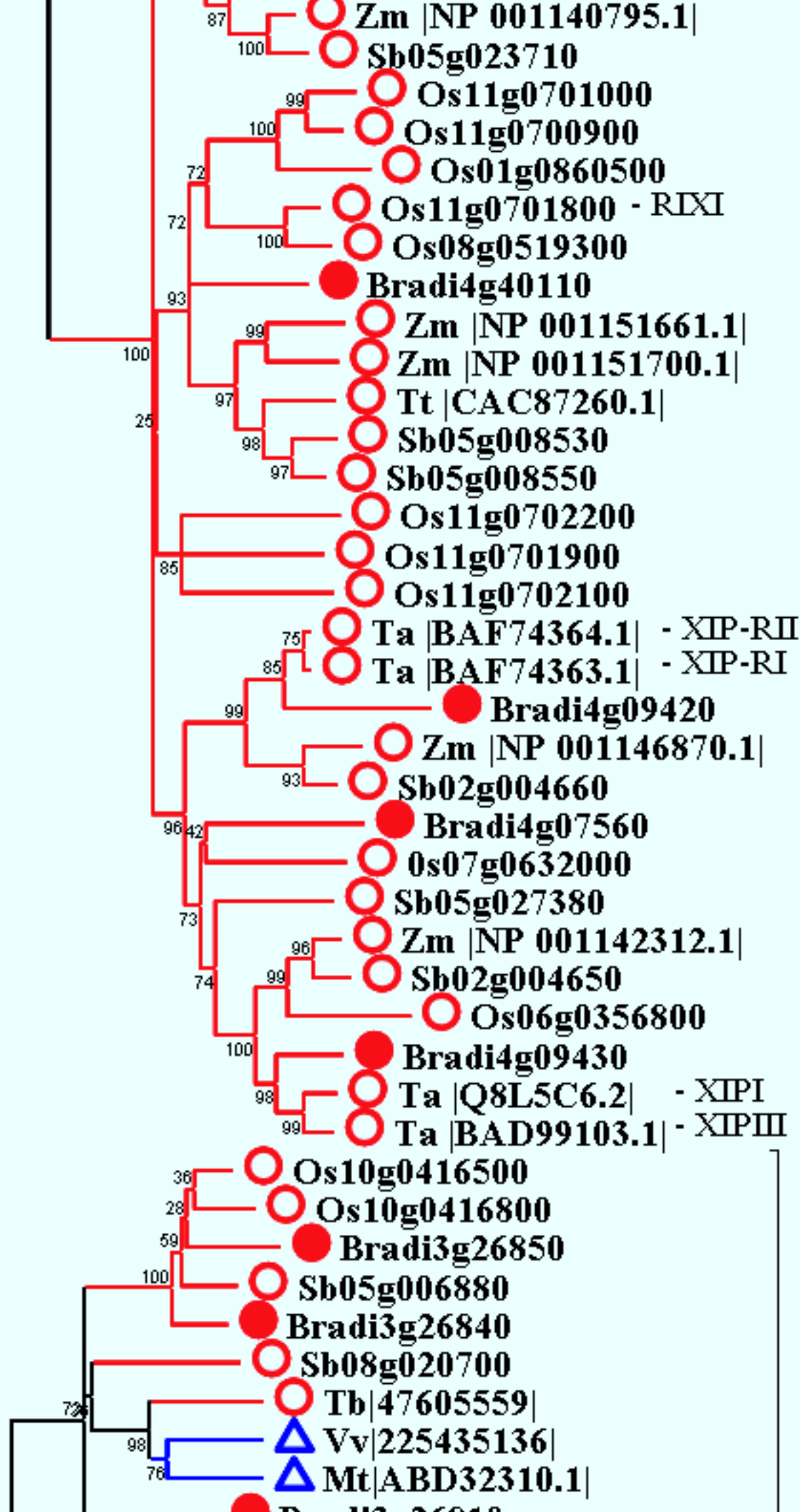


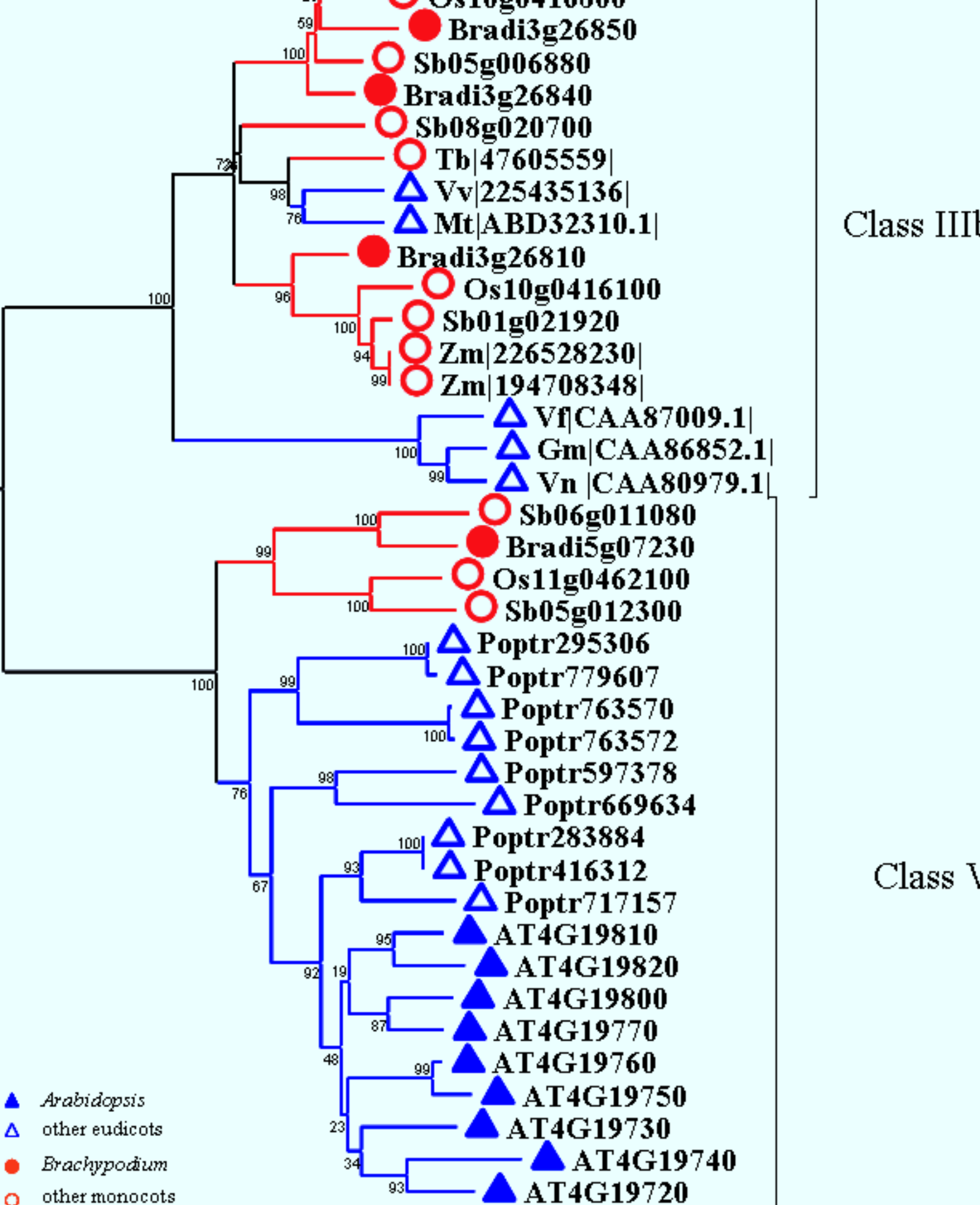
GH18



Class III:







Additional file 10 – GH18 Rectangular Tree. GH18 family tree with all branches labeled. The same tree as in Figure 2 is displayed in a rectangular format, with complete branch information. The tree is comprised of GH18 proteins from 23 species, including *Arabidopsis* (AT), rice (Os), *Brachypodium* (Bradi), sorghum (Sb), and poplar (Poptr). Additional plant sequences are indicated by an abbreviation for the genus and species, followed by the GenBank accession number or gene name. The tree was constructed using the Neighbor-Joining method and 1,000 bootstrap replicates. The bootstrap support for each branch is indicated. Distances represent the number of amino-acid substitutions per site. Sequences from eudicots are indicated in blue (*Arabidopsis* with filled triangles, other eudicots with open triangles); sequences from monocots are indicated in red (*Brachypodium* with filled circles, other monocots with open circles). Chitinase classes and specific XIP proteins are labeled on the right. Bo: *Bambusa oldhamii*, Bv: *Beta vulgaris*, Cg: *Casuarina glauca*, Fa: *Ficus awkeotsang*, FxA: *Fragaria x ananassa*, Gm: *Glycine max*, La: *Lupinus albus*, Mt: *Medicago truncatula*, Pp: *Parkia platycephala*, Pst: *Psophocarpus tetragonolobus*, PxG: *Panax ginseng*, Ta: *Triticum aestivum*, Tb: *Tulipa bakeri*, Tt: *Triticum turgidum durum*, Va: *Vigna angularis*, Vu: *Vigna unguiculata*, Vv: *Vitis vinifera*, Zm: *Zea mays*, Common names for these species can be found in additional file 12. Poplar gene names are abbreviated; for the full names see additional file 9.