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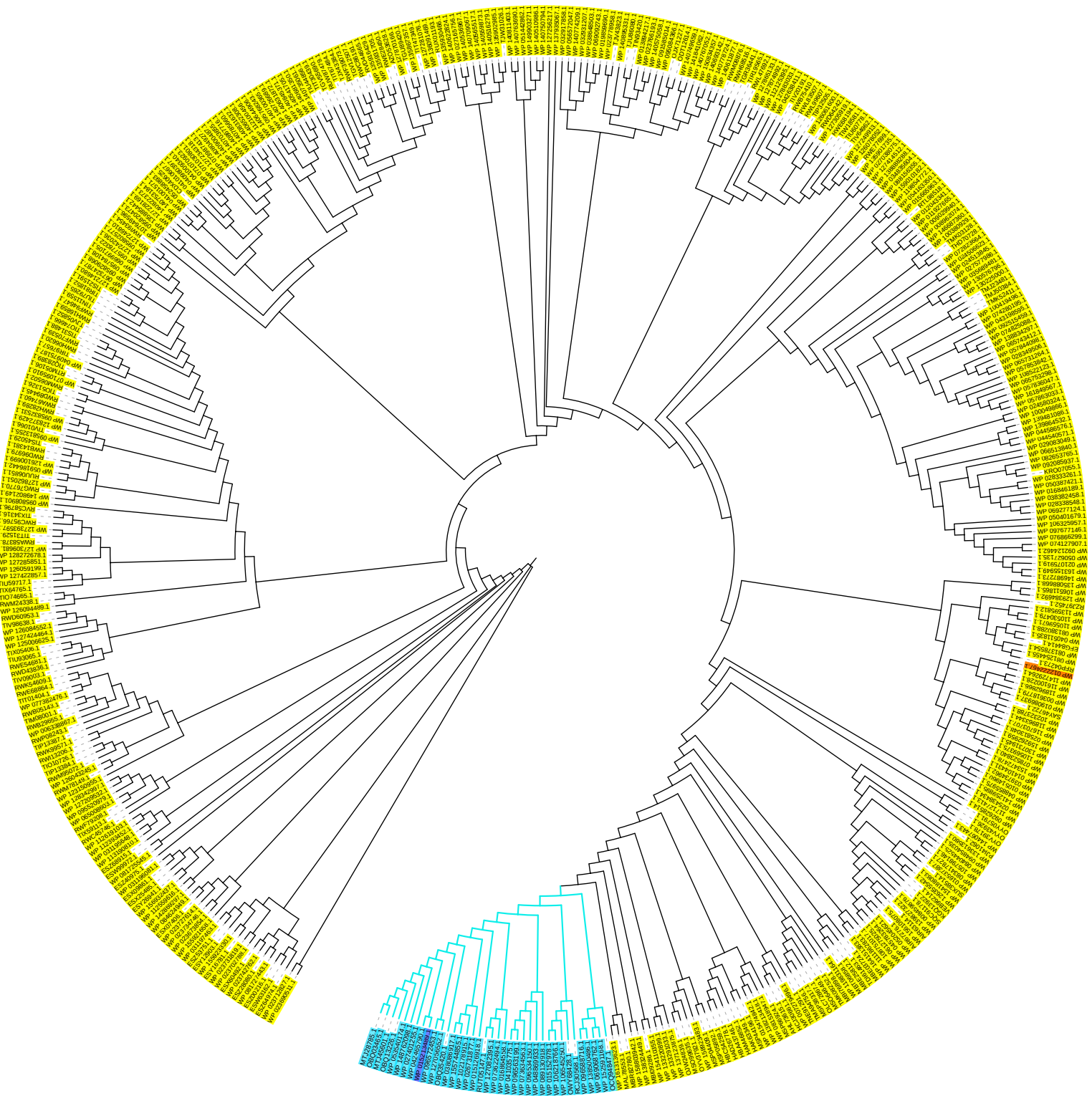


Figure S1. Phylogenetic analysis of dioxygenase enzymes related to *Gluconacetobacter diazotrophicus* (orange). These enzymes correspond to the phylum proteobacteria (yellow) and cyanobacteria (blue), including *Anabaena cylindrica* (navy blue).