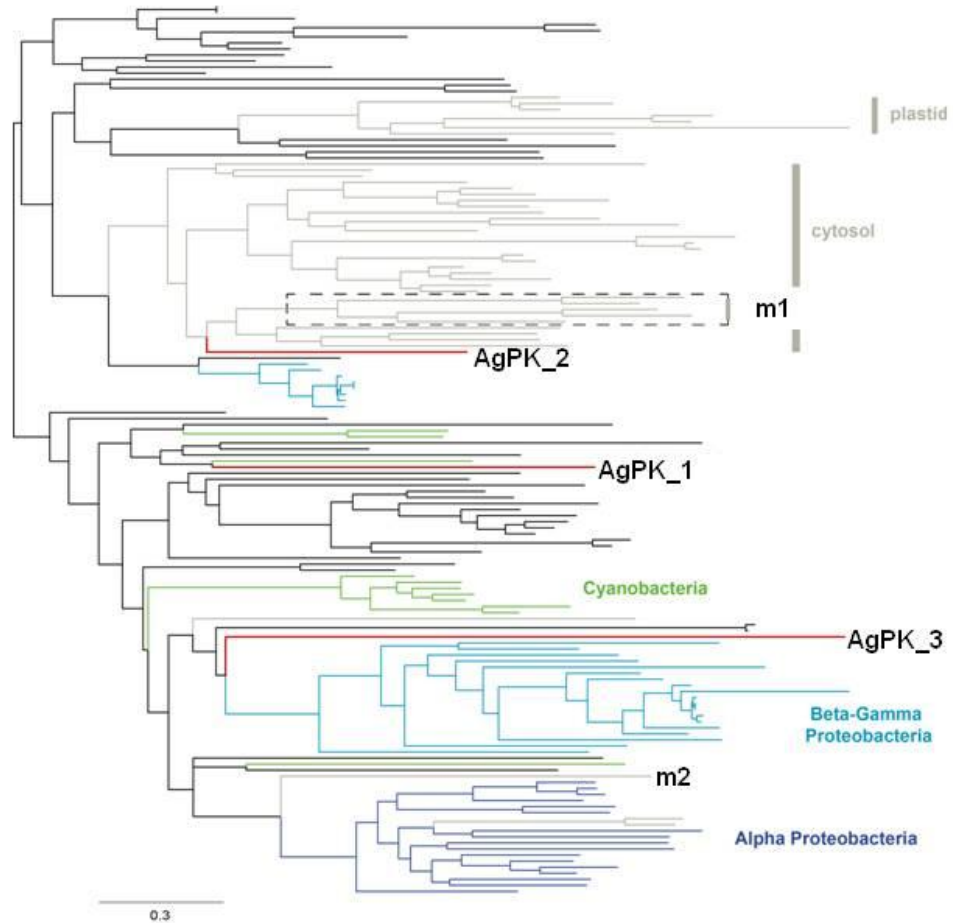
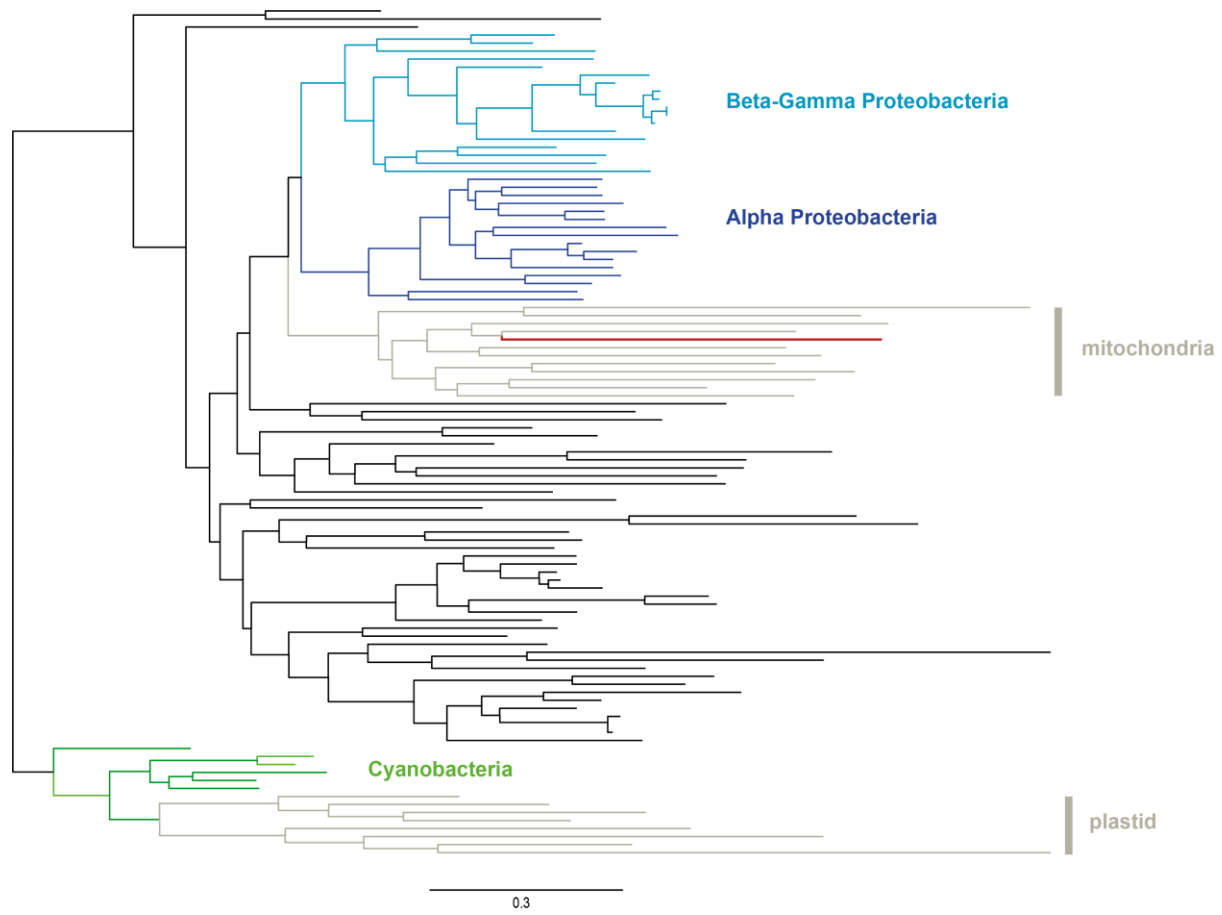


**(A) Pyruvate kinase (348 amino acid positions in alignment)**



*A. godoyi* encodes three pyruvate kinases: AgPK\_1 (ANDGO\_05259, mitochondrial) ; AgPK\_2 (ANDGO\_08019, cytosolic type); and AgPK\_3 (ANDGO\_06998, bacterial type). Positions of mitochondrion-targeted pyruvate kinases in other studies: m1, Abrahamian et al. [39]; m2, Saito et al. [37].

**(B) RecA (155 amino acid positions in alignment)**



**(C) SmpB (475 amino acid positions in alignment)**

