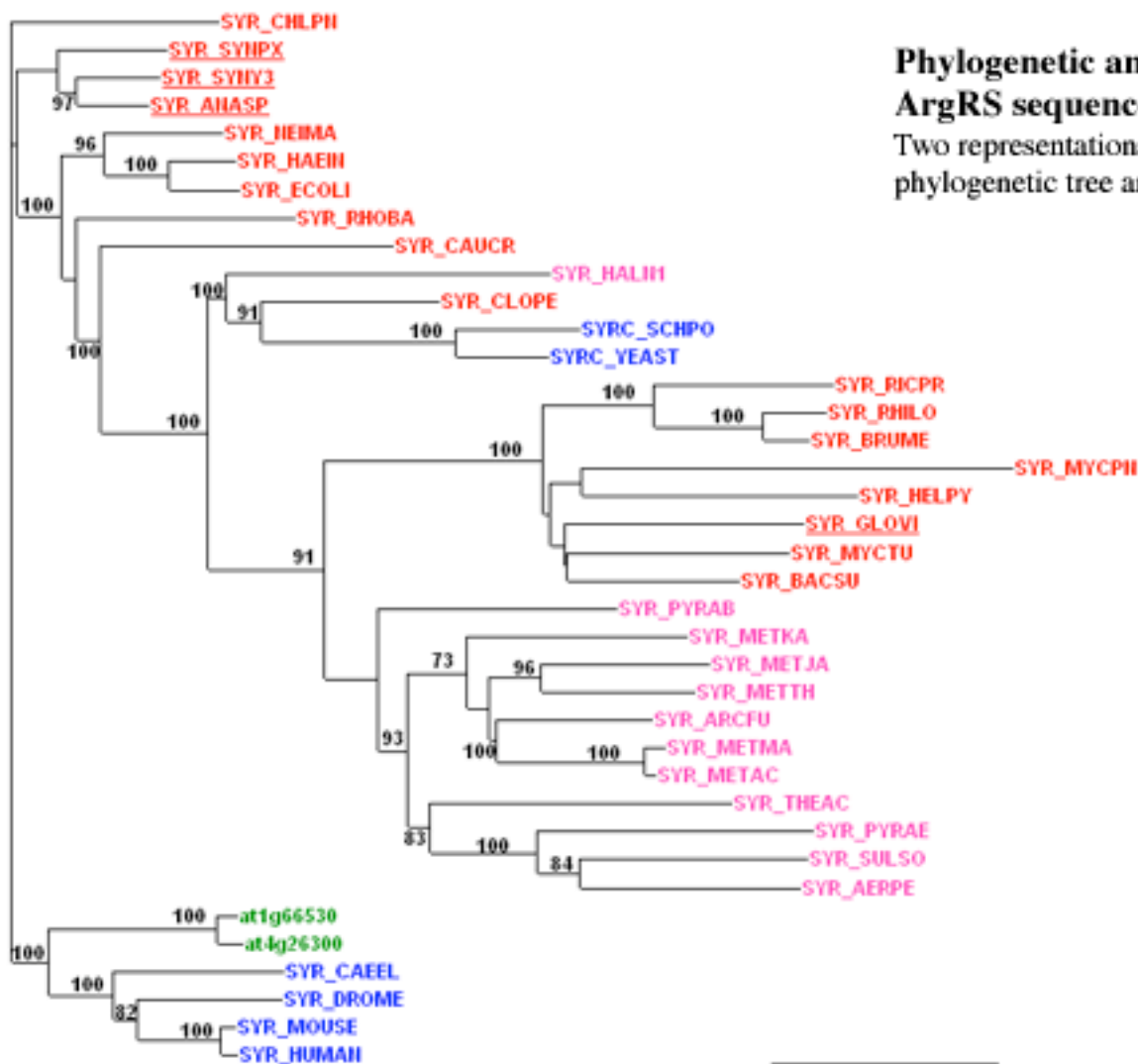


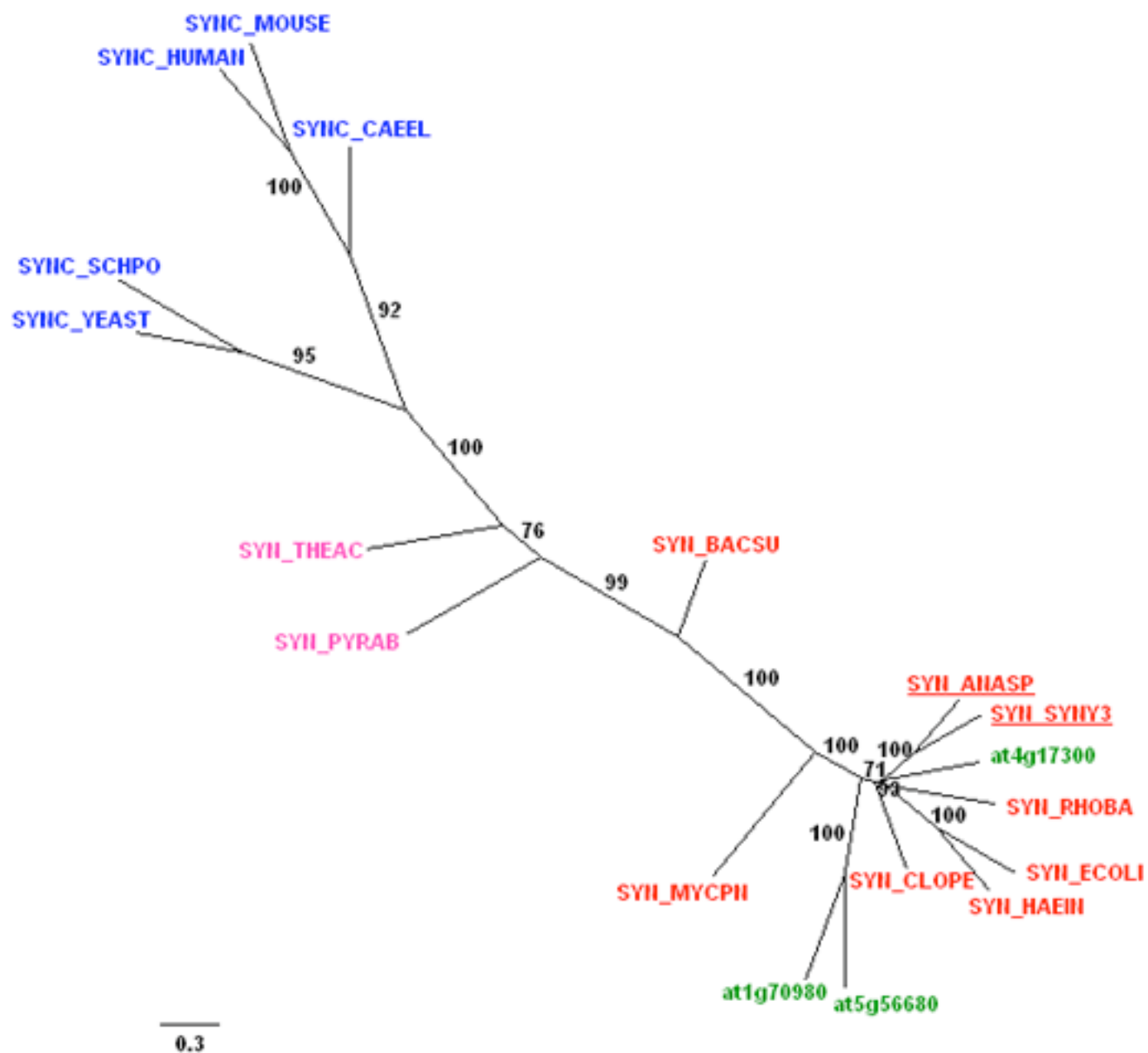
0.6

Phylogenetic analysis of ArgRS sequences

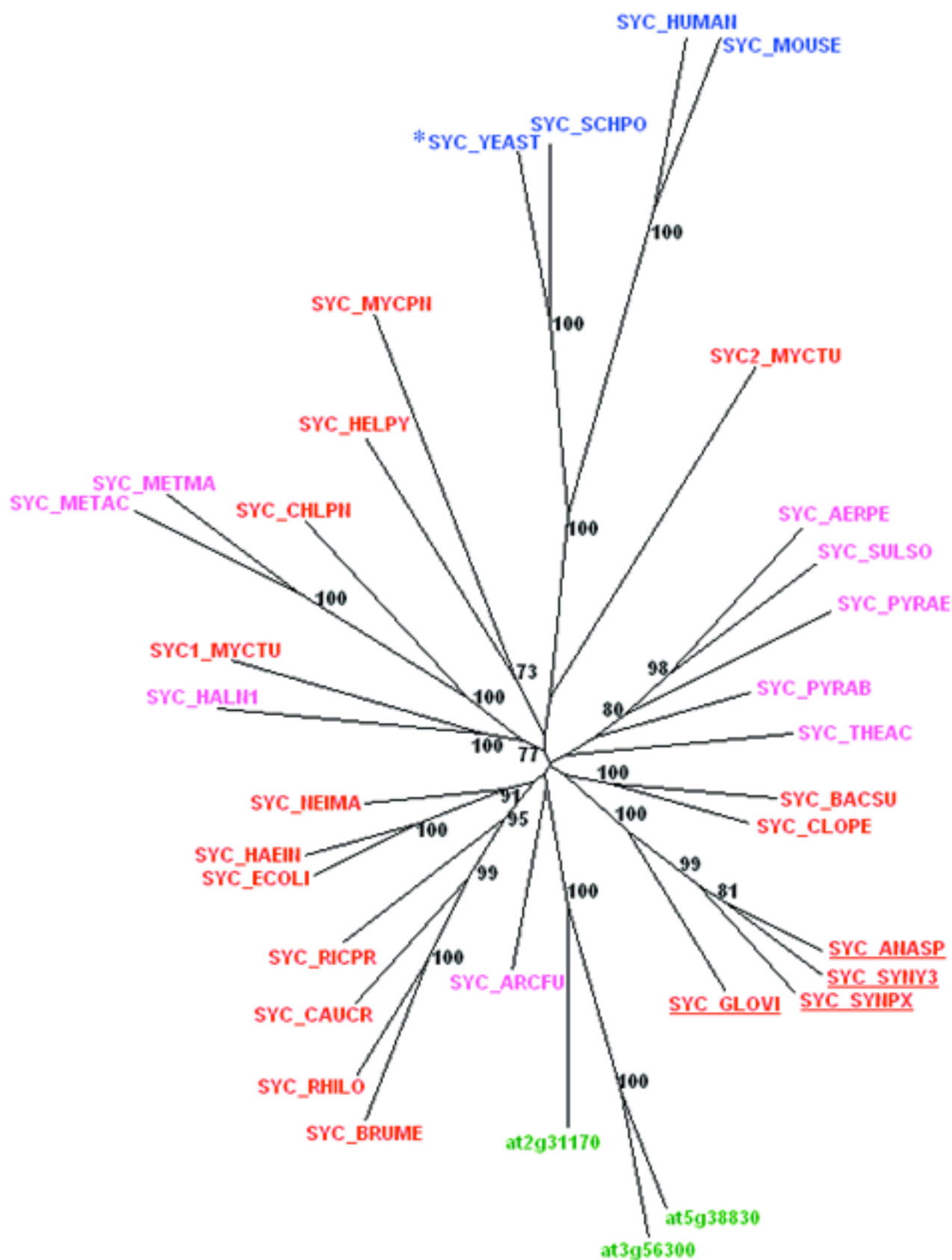
Two representations of the phylogenetic tree are given



0.6



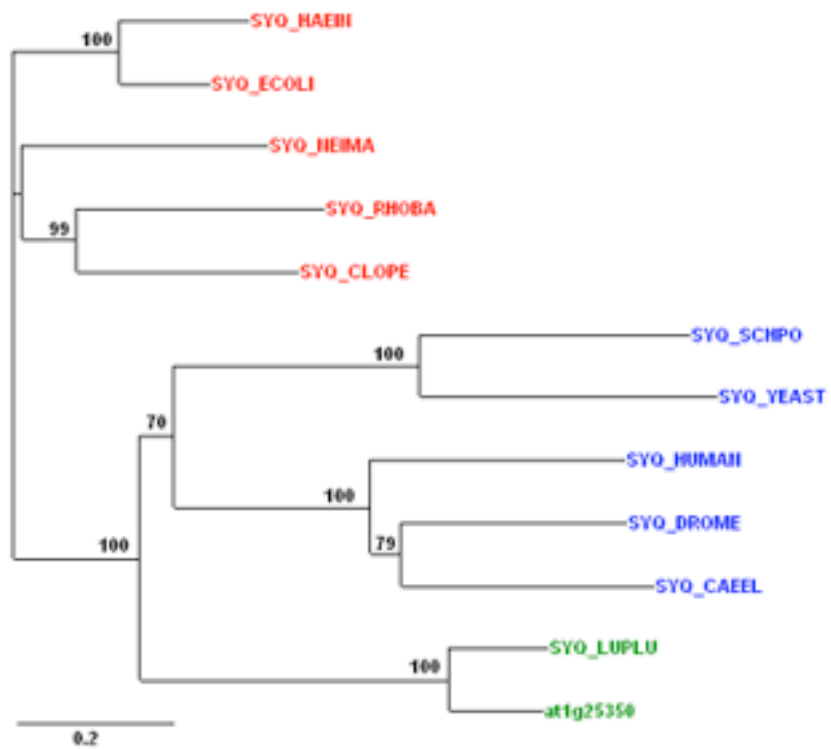
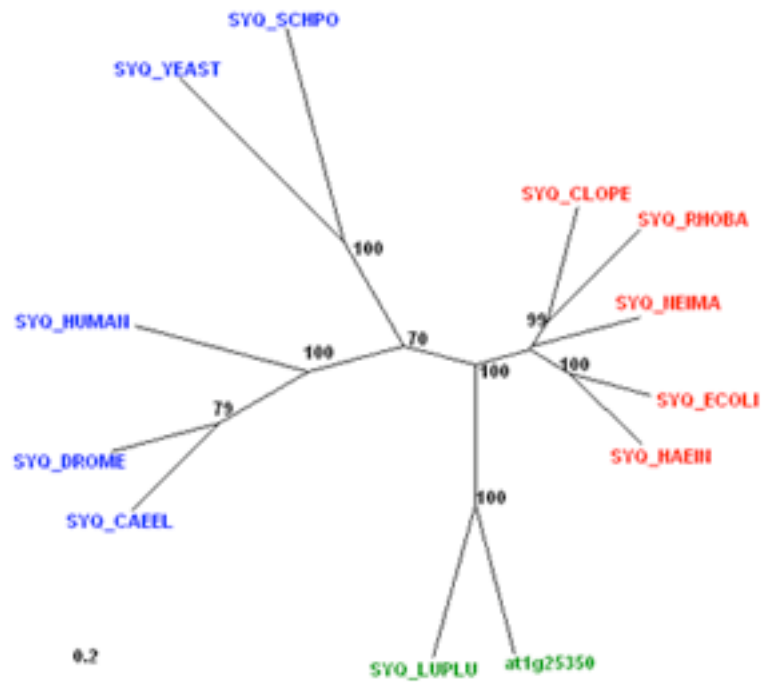
Phylogenetic analysis of AsnRS sequences



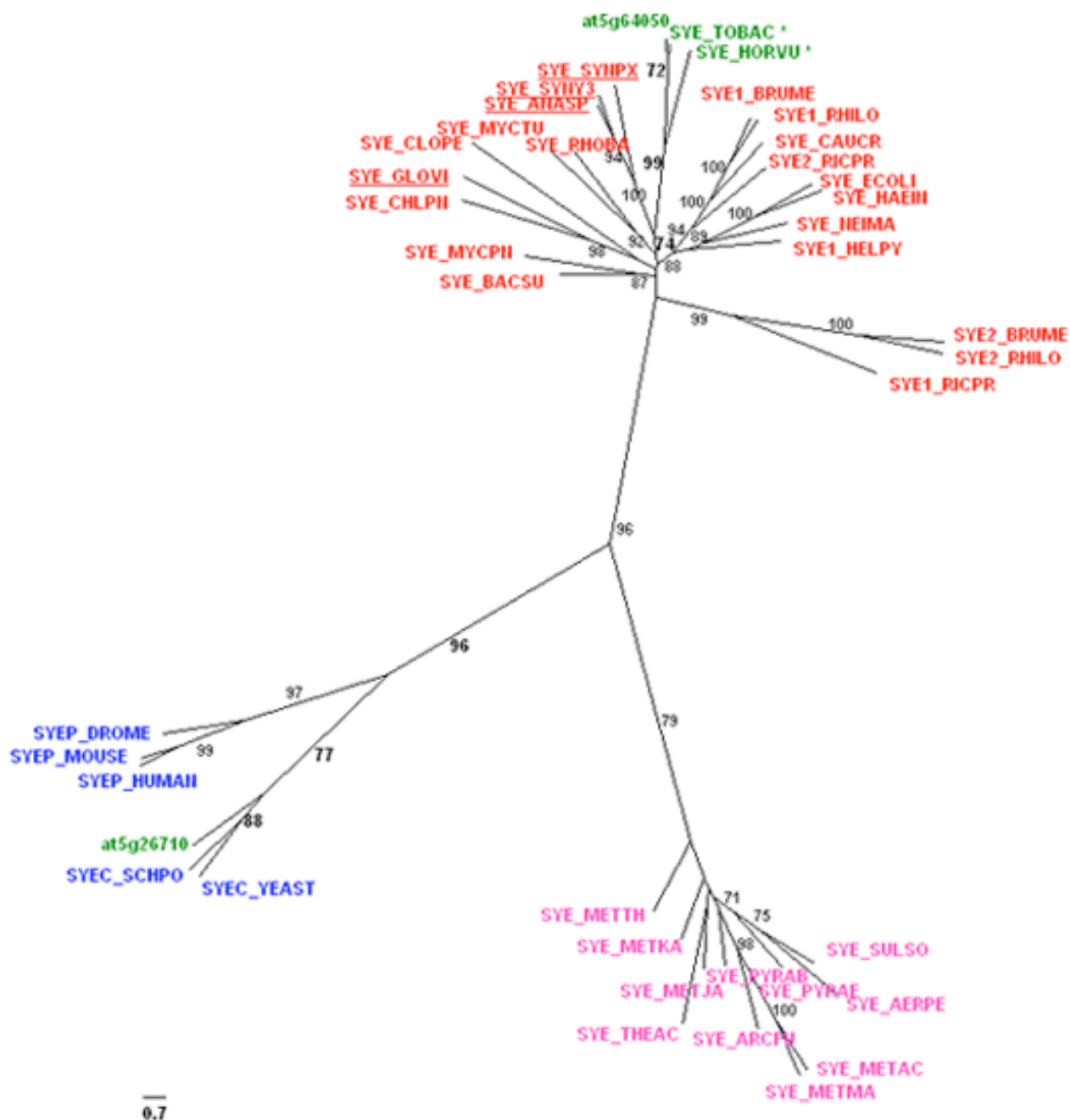
Phylogenetic analysis of CysRS sequences

* predicted to be also mitochondrial (<http://mips.gsf.de>)

0.5



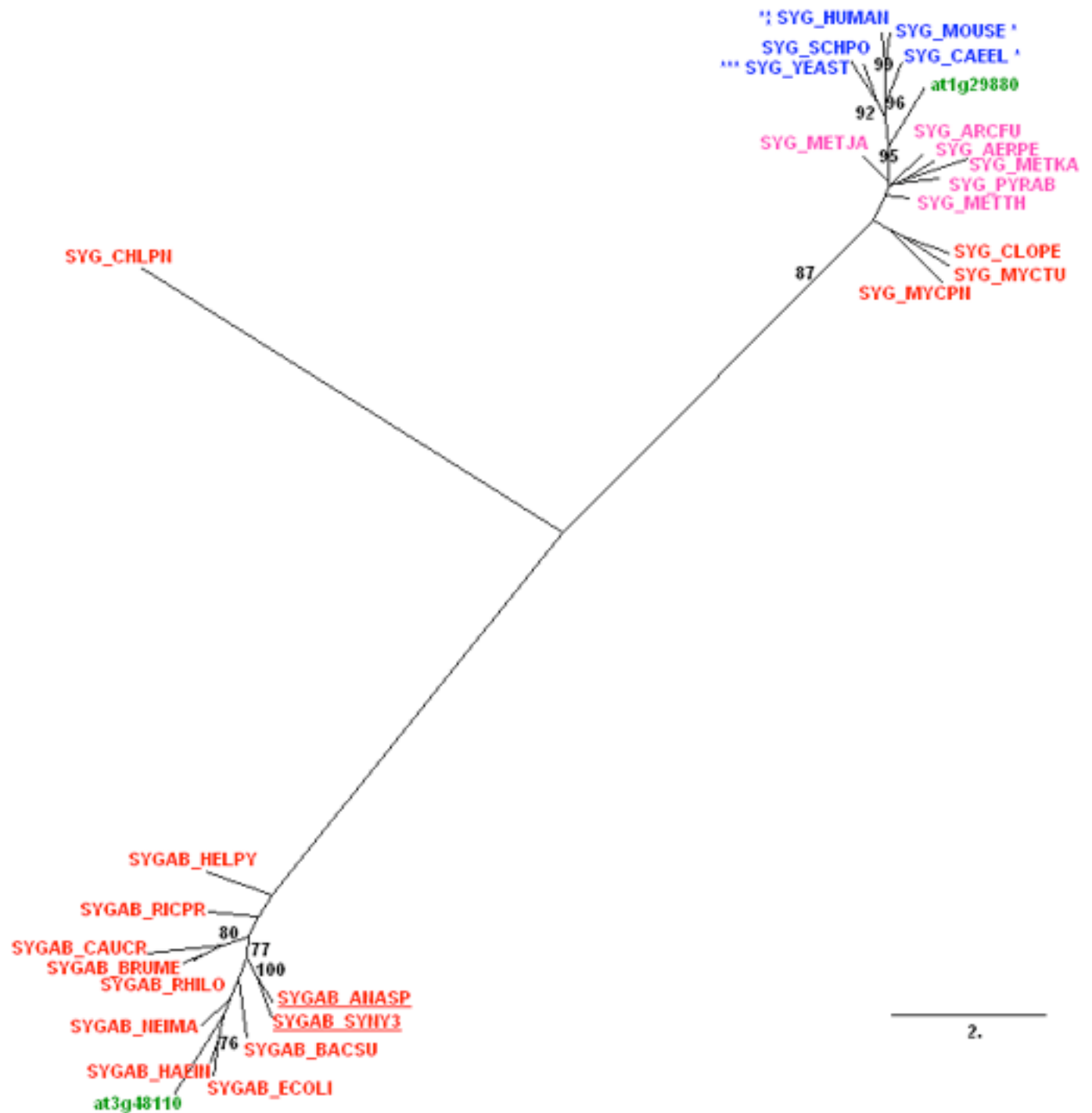
Phylogenetic analysis of GlnRS sequences
Two representations of the phylogenetic tree are given



Phylogenetic analysis of GluRS sequences

* possibly mitochondrial and/or plastid

(<http://genoplante-info.infobiogen.fr/predotar/predotar.html>)



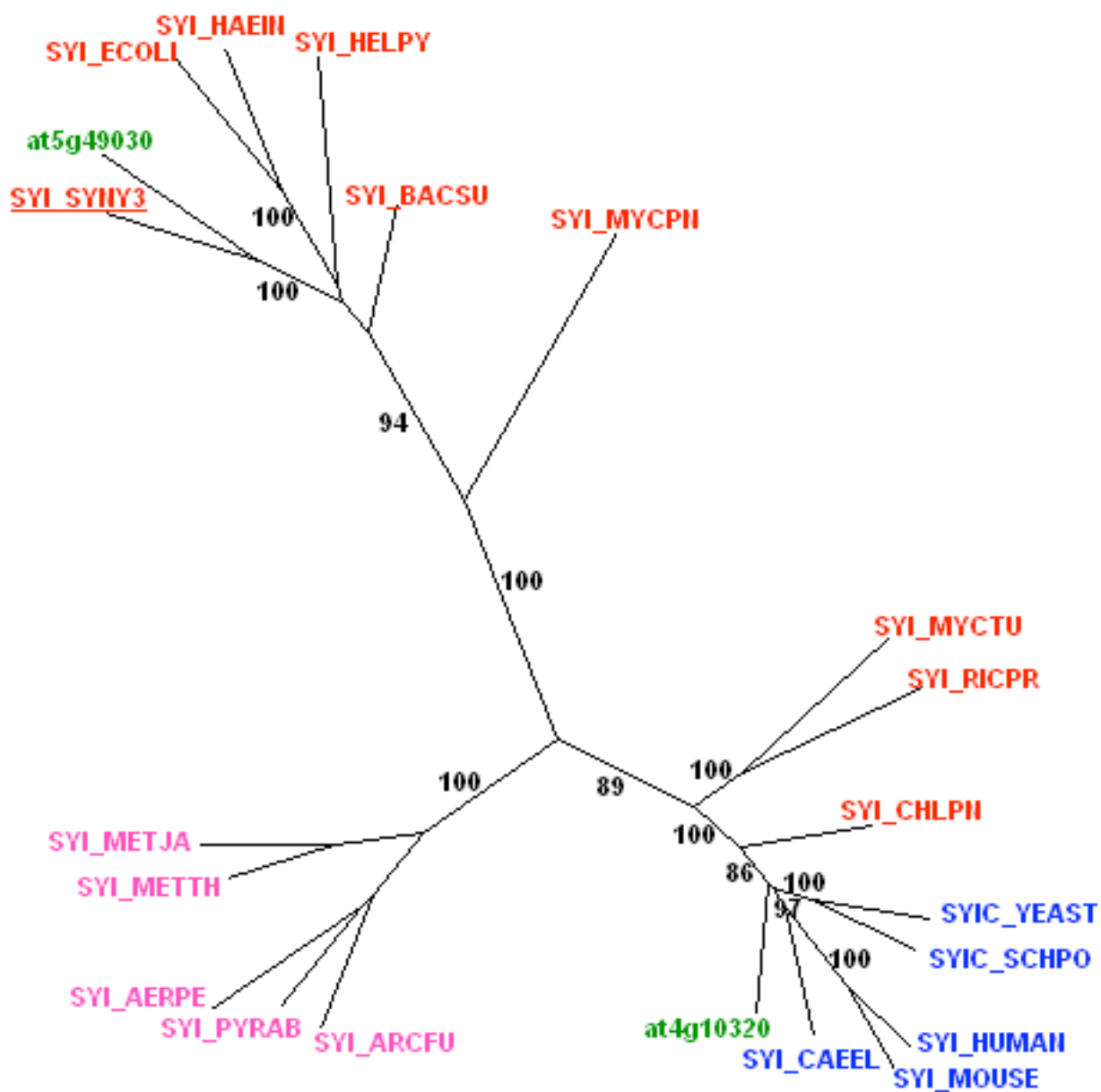
Phylogenetic analysis of GlyRS sequences

In the case of eubacterial enzymes, the alpha and beta subunits were fused to make the alignments and phylogenetic analysis.

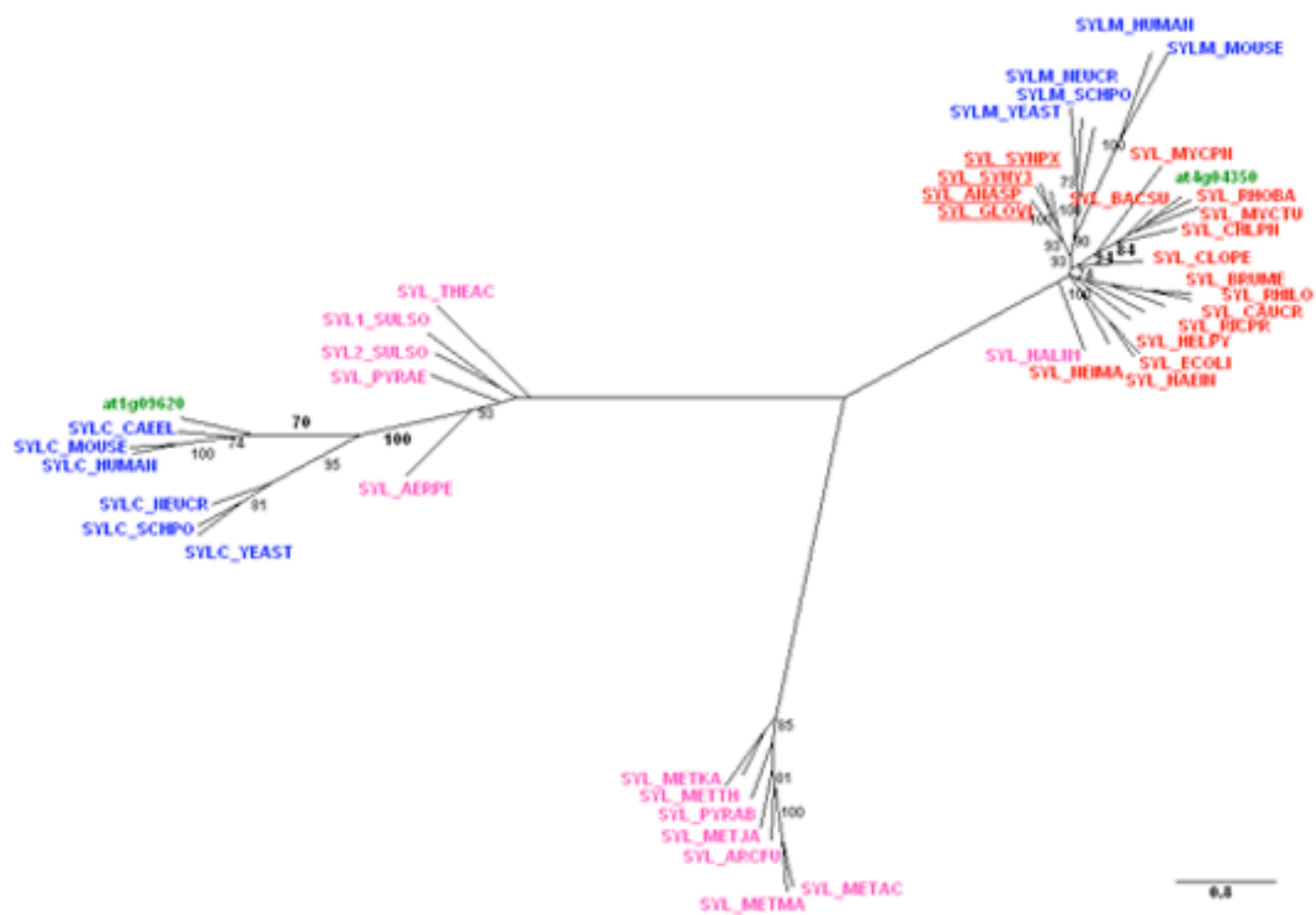
* possibly mitochondrial (Predotar, TargetP)

** the cytosolic and mitochondrial enzymes are encoded by the same gene (Shiba et al. J. Biol. Chem (1994) 269: 30049-30055)

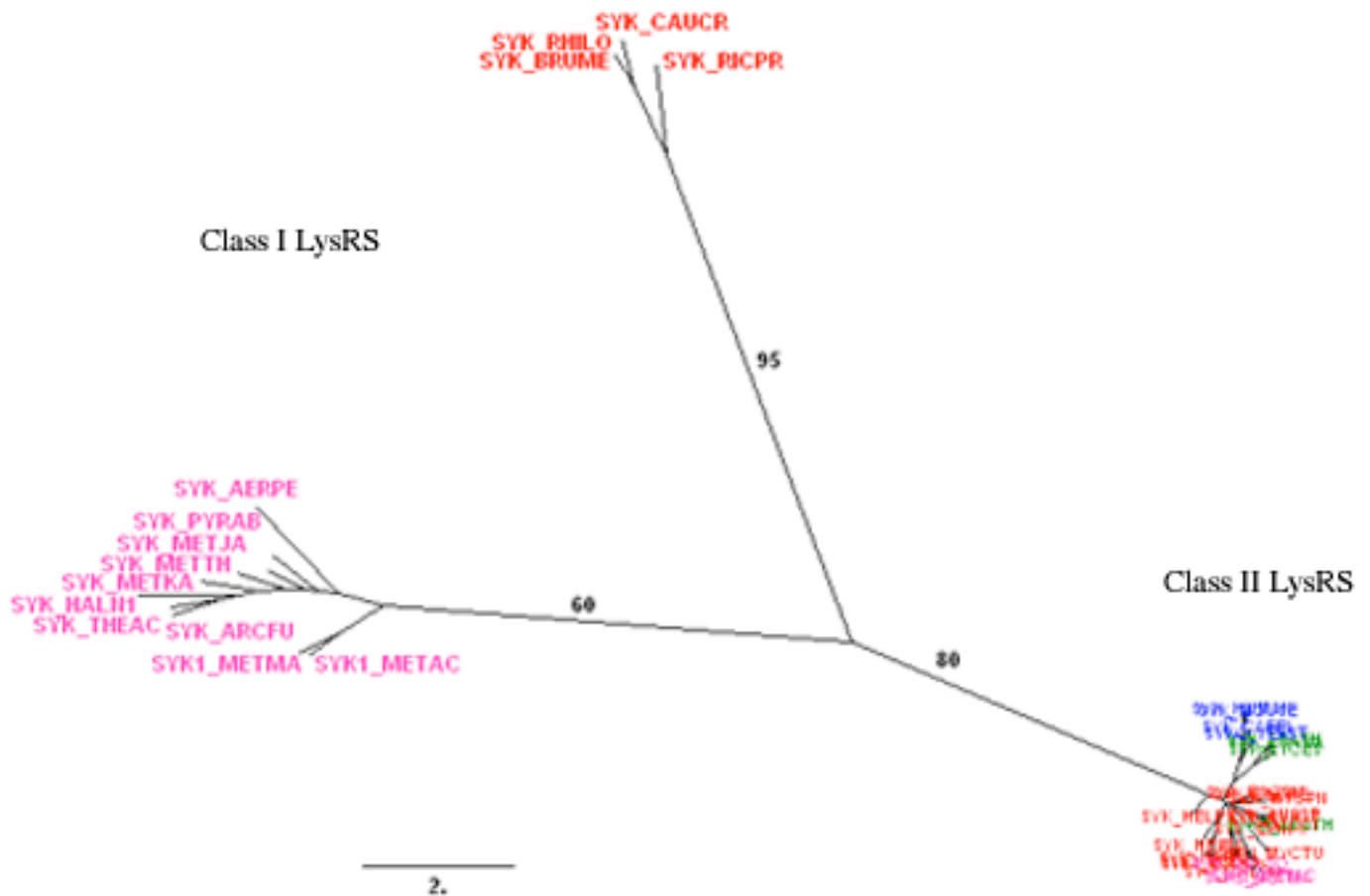
*** predicted to be also mitochondrial (<http://mips.gsf.de>)



Phylogenetic analysis of IleRS sequences

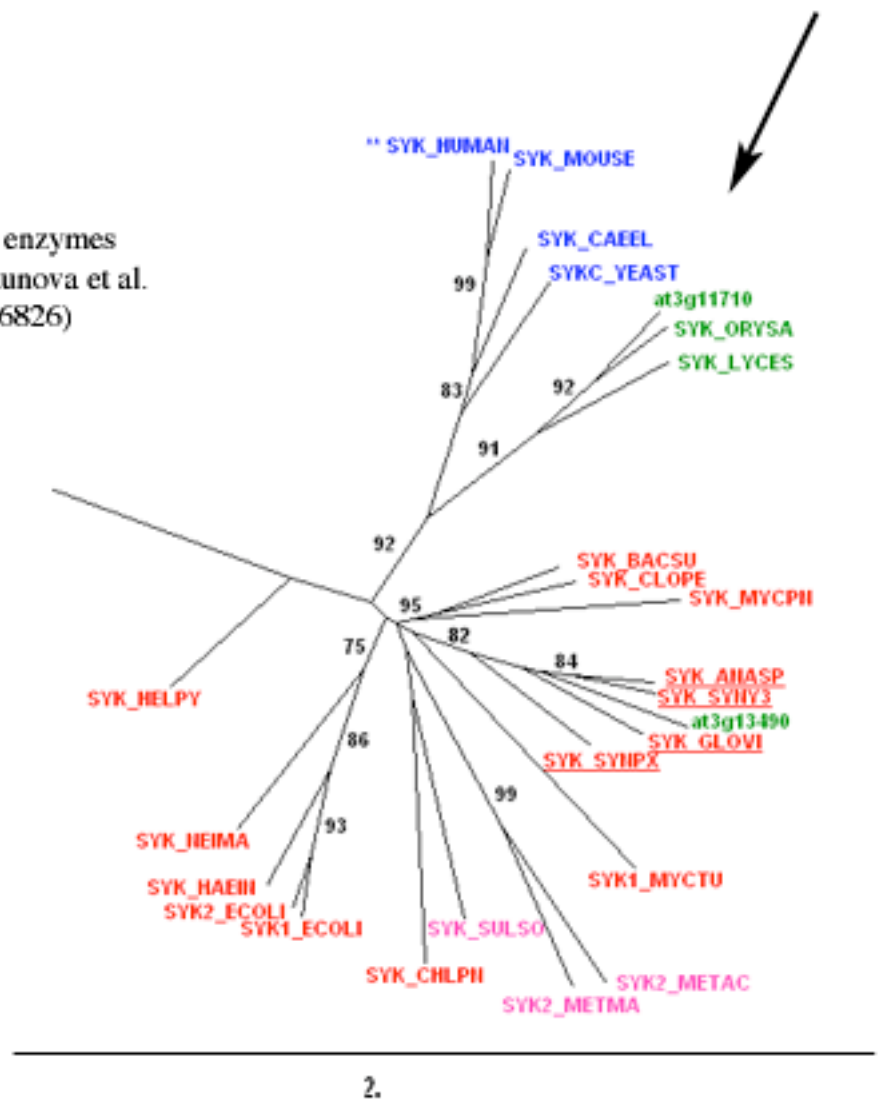


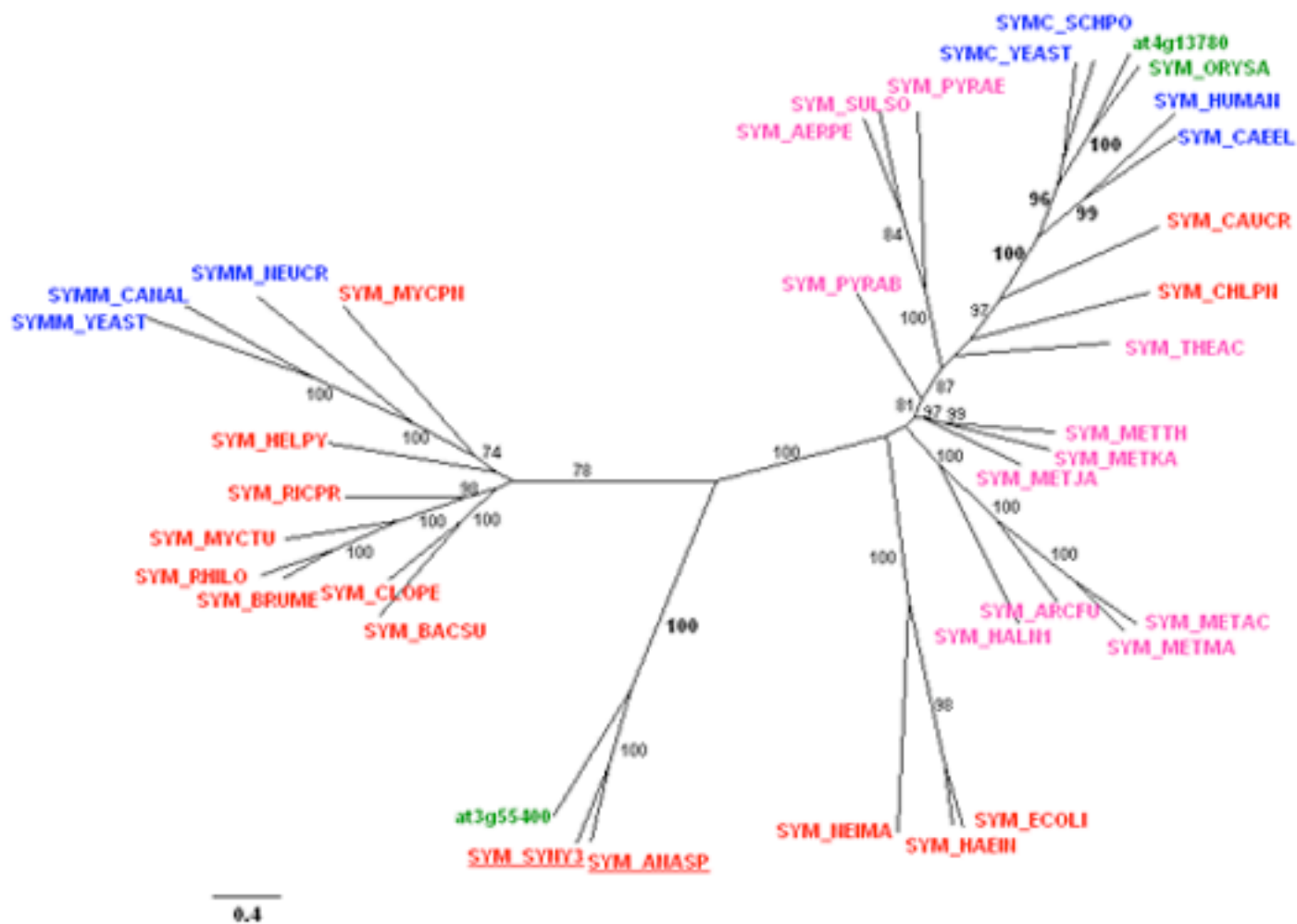
Phylogenetic analysis of LeuRS sequences



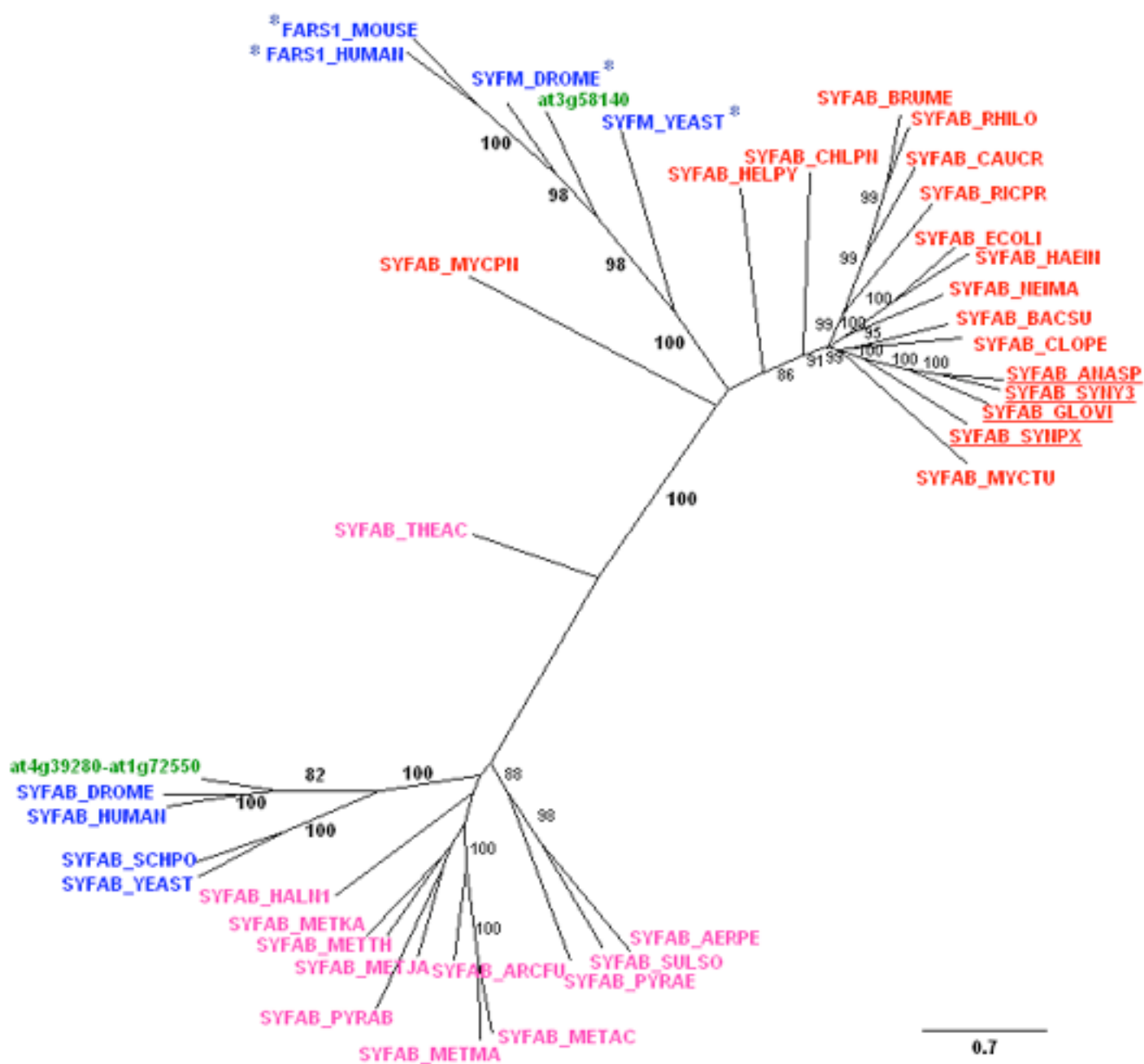
Phylogenetic analysis of LysRS sequences

** The cytosolic and mitochondrial enzymes are encoded by the same gene (Tolkunova et al. J. Biol. Chem. (2000) 275: 16820-16826)





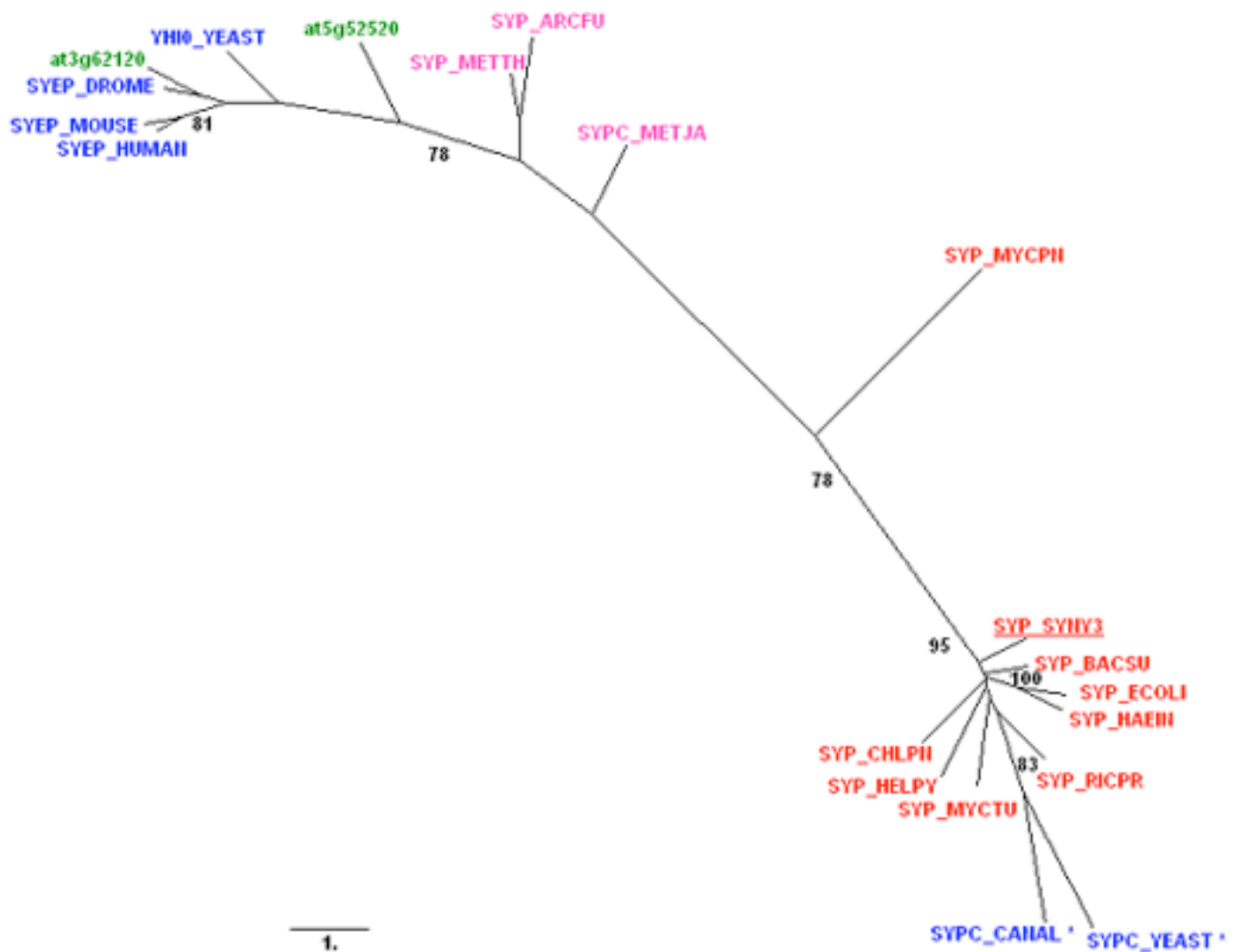
Phylogenetic analysis of MetRS sequences



Phylogenetic analysis of PheRS sequences

The alpha and beta chains were fused to make the alignments

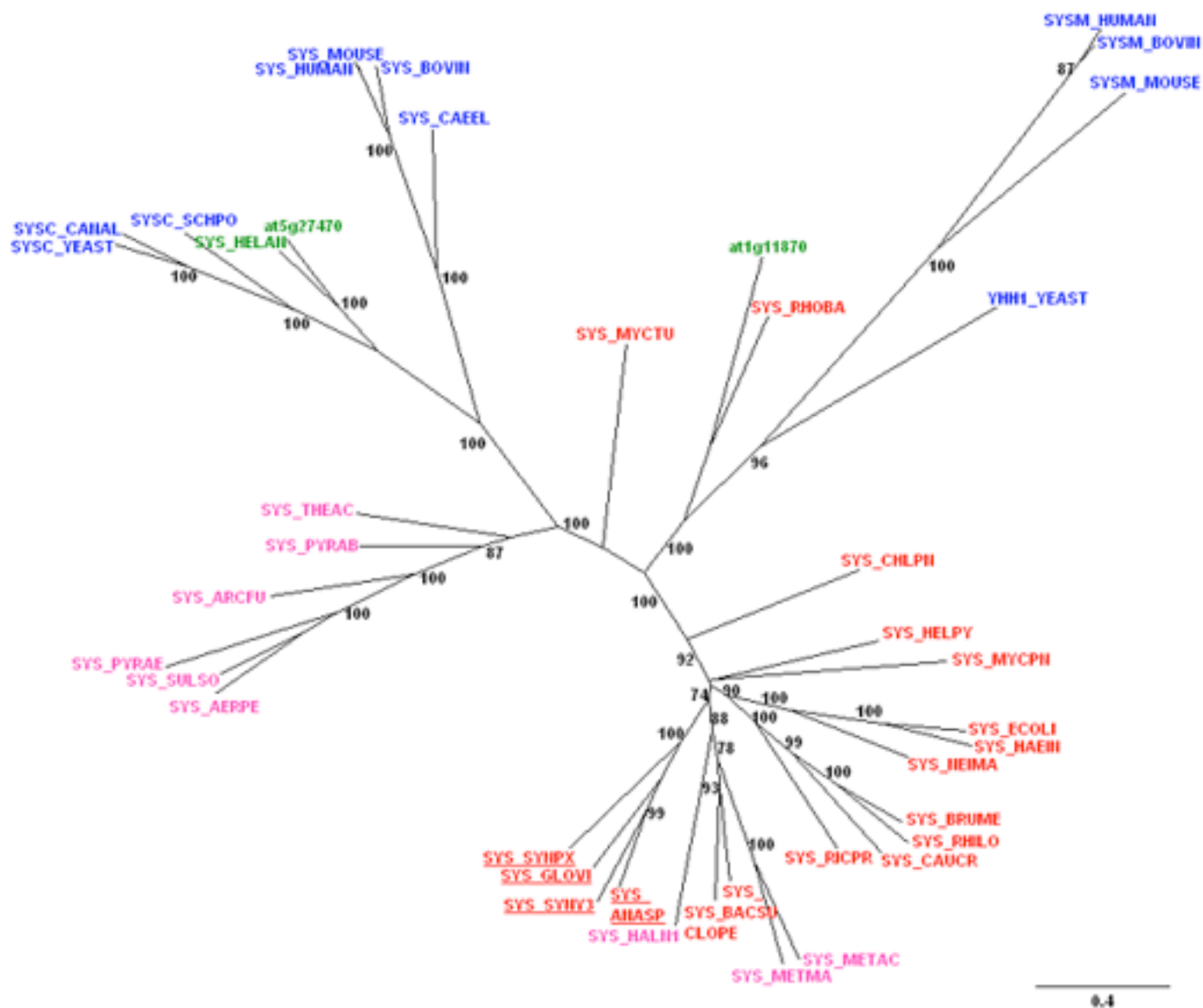
* predicted to be mitochondrial (<http://mips.gsf.de> or <http://www.expasy.org>)



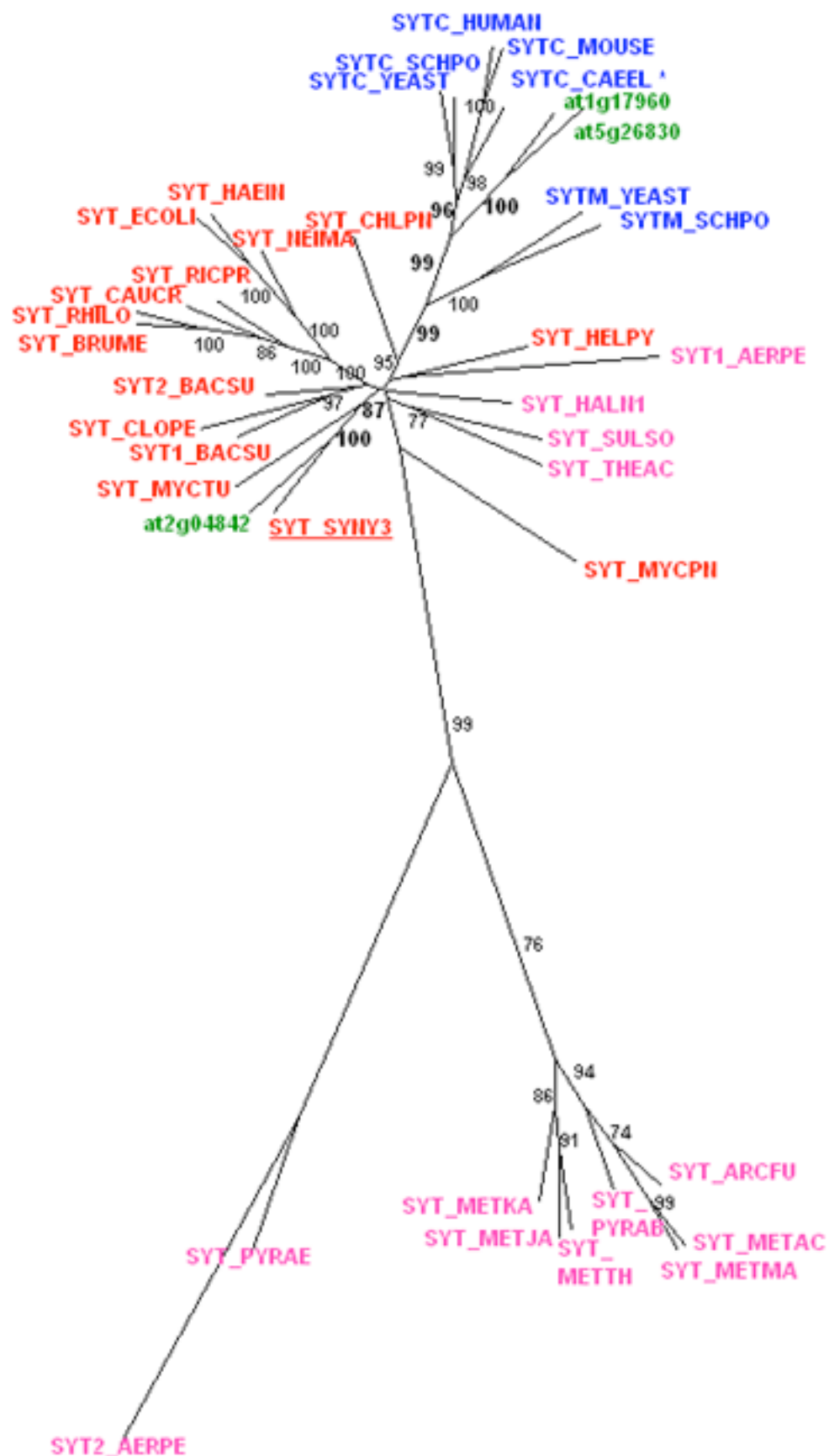
Phylogenetic analysis of ProRS sequences

* possibly mitochondrial (Predotar and/or TargetP)

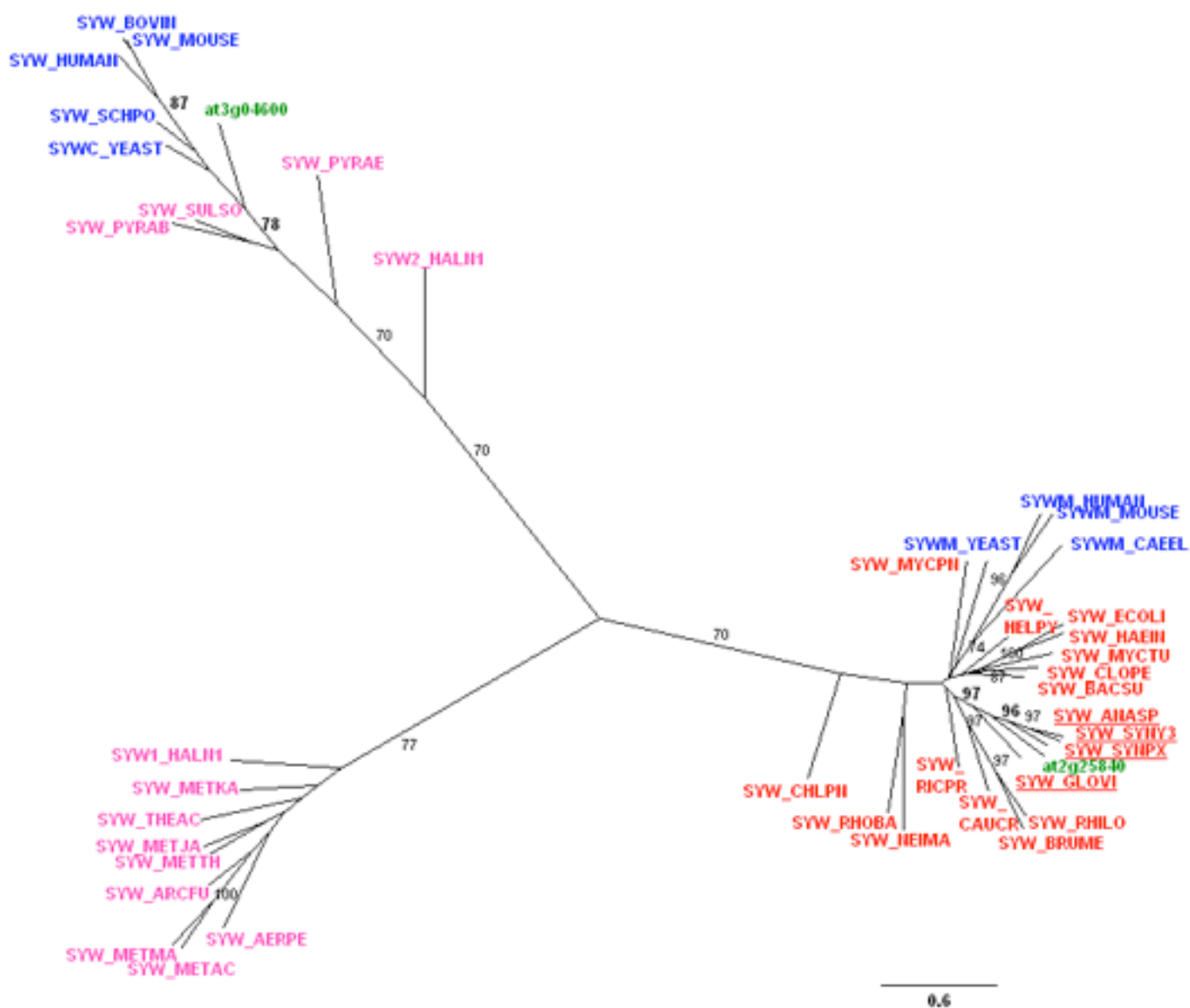
For SYEP_HUMAN, SYEP_DROME and SYEP_MOUSE, the part of sequence corresponding to the GluRS was removed (about 800 first aminoacids) prior to alignments and phylogenetic analysis.



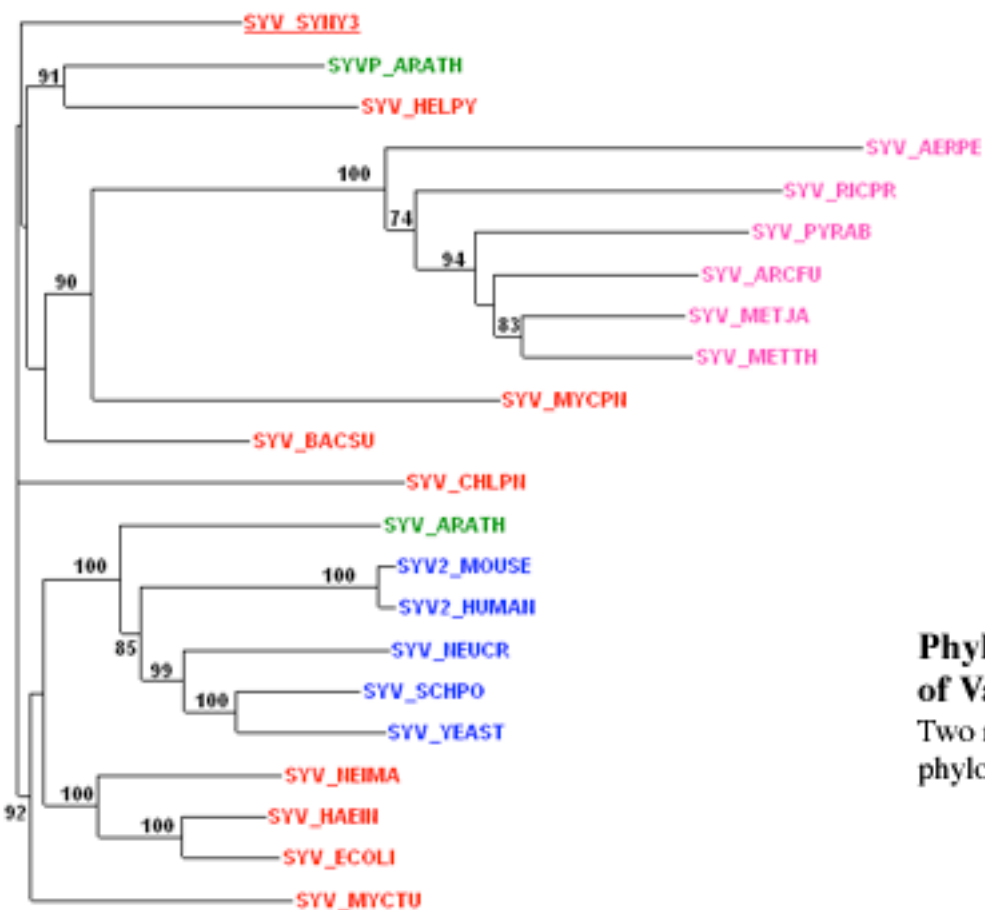
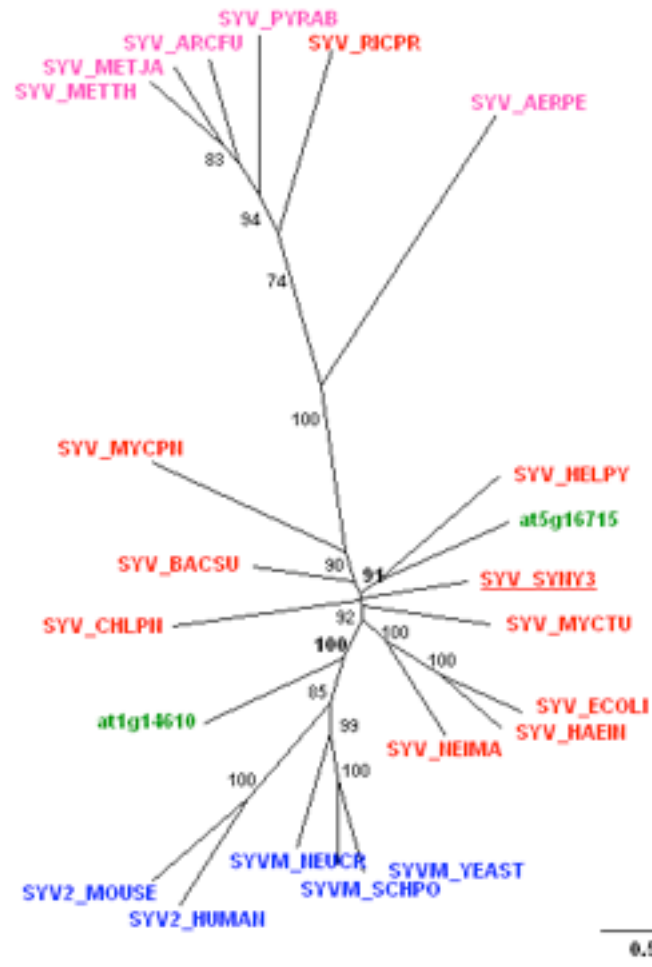
Phylogenetic analysis of SerRS sequences



Phylogenetic analysis of ThrRS sequences
 * possibly mitochondrial (Predotar and/or TargetP)



Phylogenetic analysis of TrpRS sequences



Phylogenetic analysis of ValRS sequences
 Two representations of the phylogenetic tree are given