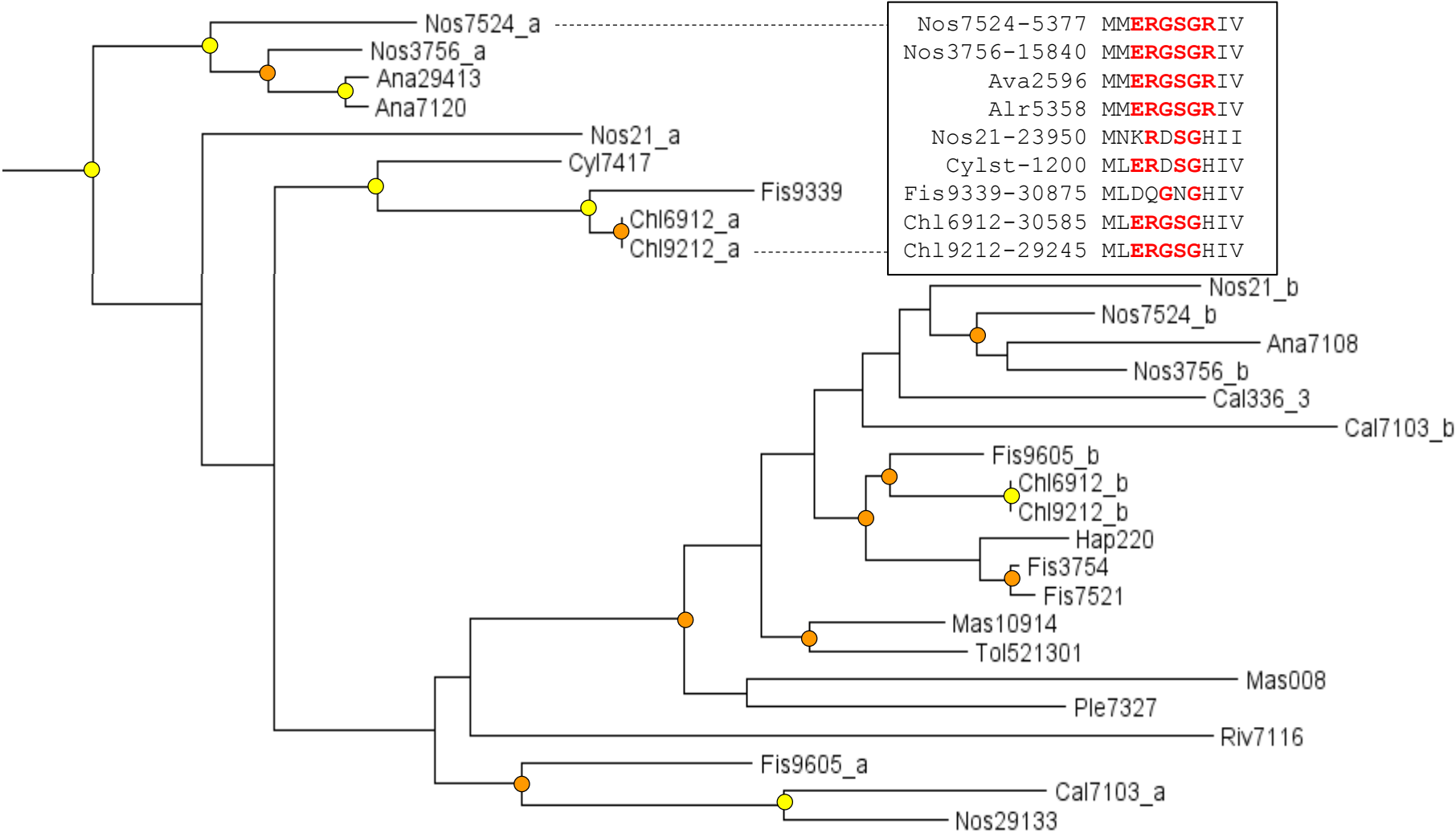


Supporting Information Figure S4

Phylogenetic tree of HetN-like sequences (shows only proteins closest to HetN)



(Supporting Information Fig. S4 continued)

Organism names and other information can be found in **Suppl. Table 1**. Groups of organisms, shown by vertical colored bars and associated labels, are as described in **Figs. 4** and **5**. See the **Methods** section for a description of how the tree came about. Yellow circles and orange circles in the tree indicates bootstrap support of at least 90% and 67%, respectively. Only one branch from a much larger tree is shown, composed of multiple similar proteins per organism. The inset shows the proteins most closely related to HetN from *Anabaena* PCC7120 (Alr5358) and the amino acids in the region of the ERGSGR motif. No other protein in the extended tree has the ERGSGR motif or any 5 of the six amino acids in the appropriate region.