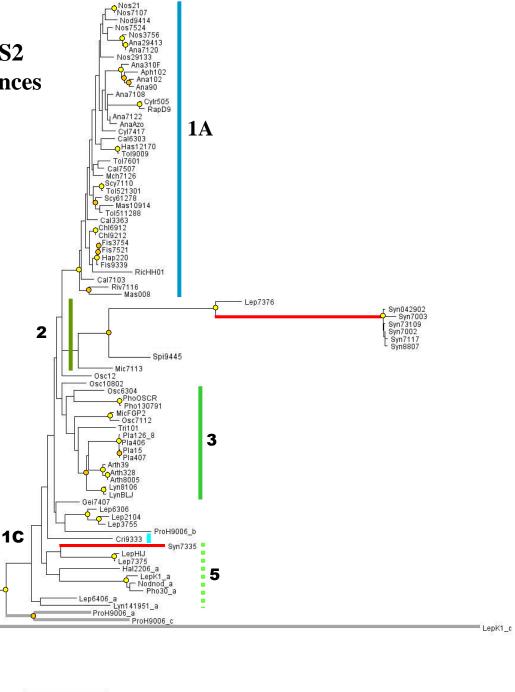
## **Supporting Information Figure S2 Phylogenetic tree of HetR sequences**

Organism names and other information can be found in Supporting Information Table S1. Groups of organisms, shown by vertical colored bars and associated labels, are as described in **Figs. 4** and **5**. Unicellular strains are indicated by horizontal red branches. 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. When an organism has more than one copy of HetR, the primary copy (as defined in the text) is labeled "\_a", while other copies are labeled "\_b" or "\_c". Pro9006 is exceptional. Its primary HetR is labeled "\_b" to make clear its geographical connection to its secondary copy of PatX (see Fig. 7B).



Lep6406\_b Lyn141951\_b

Hal2206\_b

Pho30\_b
Nodnod\_b
LepK1\_b