

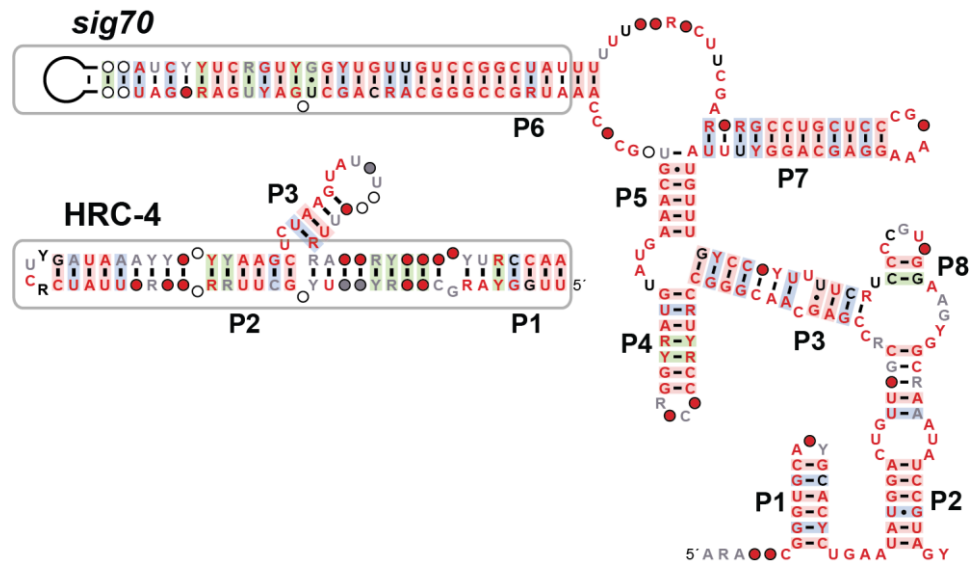


Figure S9 | Fortuitous discovery of a large structured motif. Comparison of the vague similarities between the consensus sequence and secondary structure models for the HRC-4 motif first identified from *Arcobacter* sp. *L*, and the *sig70* motif. The gray boxes identify the regions of the two RNAs that are vaguely similar, which caused representatives of the *sig70* motif to be included in the collection of bioinformatics hits for HRC-4. After further analysis, we separated the RNA representatives into two distinct classes, and discovered many additional examples of the *sig70* motif. Note that the *sig70* motif is not found among any of the five genomes analyzed in detail in the current study.