

Supplementary Figure S1: This figure depicts the same simulations and uses the same formatting as Figure 4, except that results for MAFFT and PRANK_{AA} have been added to sections (A) and (B) and results using ProbCons, T-Coffee, ClustalW + GUIDANCE, and MAFFT + GUIDANCE have been added to all sections.

Supplementary Figure S2: This figure depicts largely the same simulations and uses the same formatting as Figure 5 except for two changes. First, results for MAFFT have been added to section (B) and results for PRANK_C have been moved to section (C). Second, the rightmost column has been added, showing the true positive rate (TPR) at a 5% false positive rate (FPR) threshold (labeled TPR_{5%}).