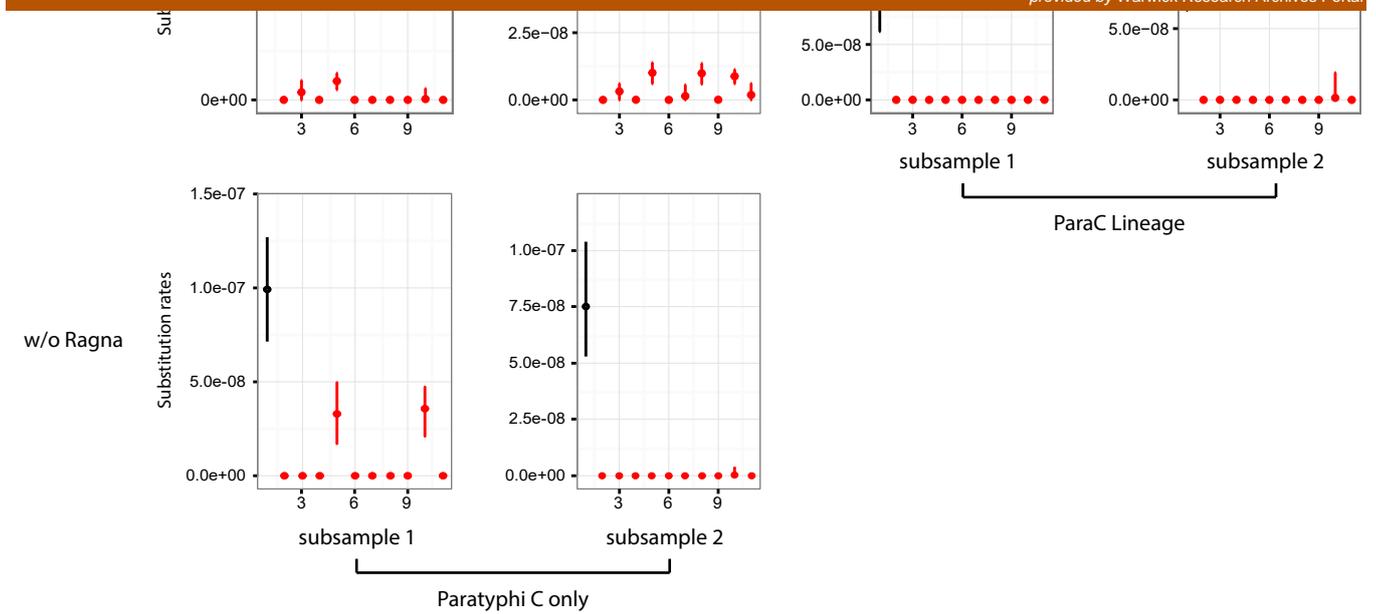


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**Date estimation 1.** Date randomization tests for the temporal signal in multiple replicate data sets that were analysed by BEAST (Table S4; Date estimation 3). Solid circles represent mean estimates of substitution rates, and errors bars show their 95% credible intervals. Black symbols were estimated with real data and red symbols were obtained from 10 randomizations of dates per data set.