

# Supporting Figures about Classification Evaluation

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There are six biologically realistic scenarios in the simulation datasets,

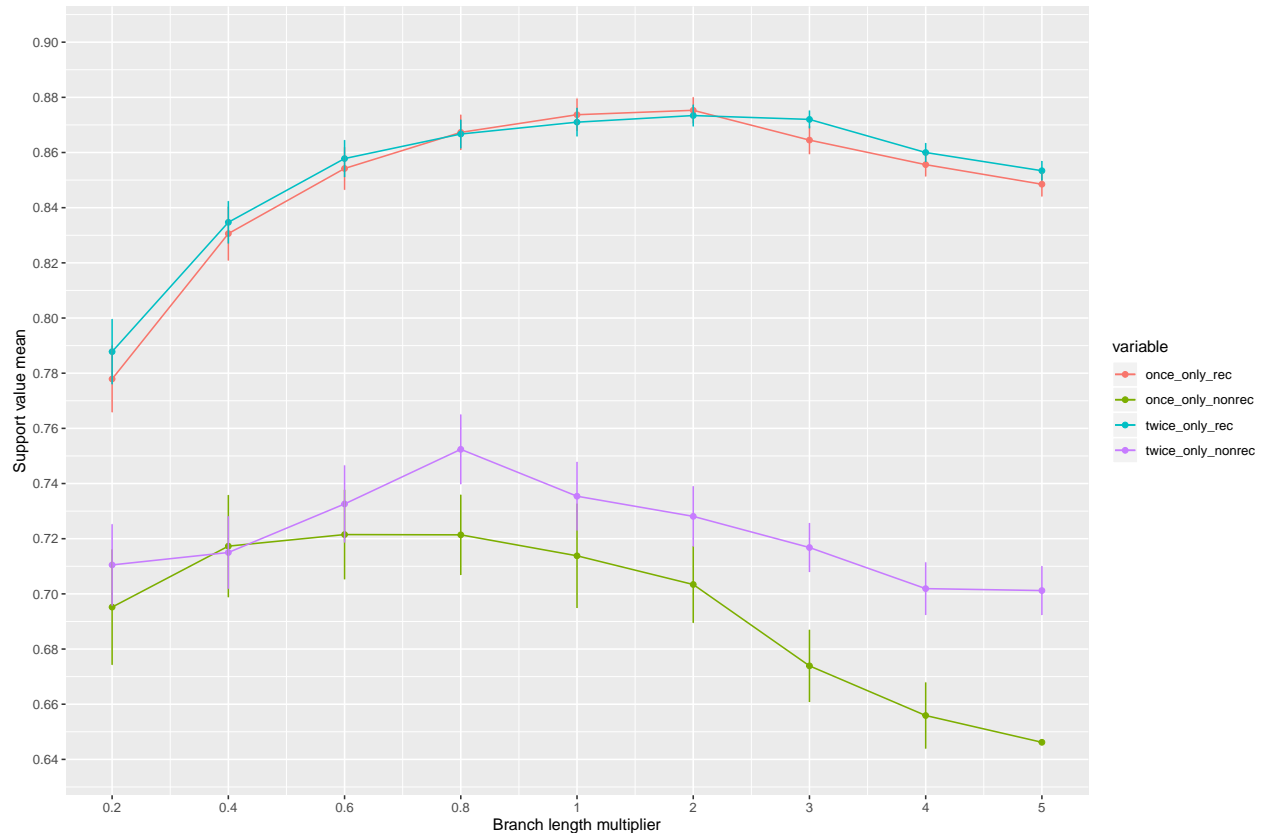
1. different recombination proportions
2. different mutation rates
3. different indel rates
4. different indel sizes
5. different sequence lengths
6. different amino acid models.

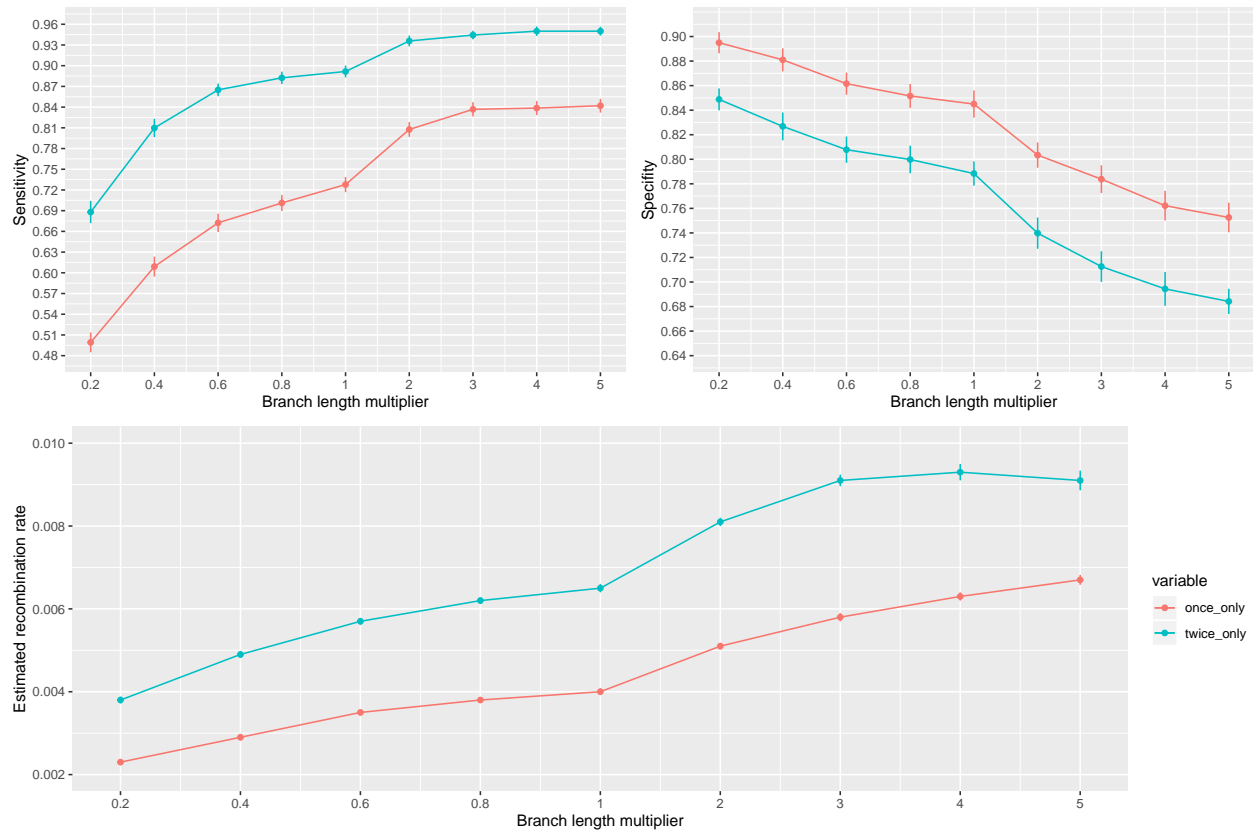
Classification results for each scenario are summarized by accuracy, sensitivity, specificity, support value mean, estimated recombination rate. So there are five plots for each case. This file provides all the supplementary figures for the manuscript in terms of classification evaluation section.

Therefore, all the following figures present sensitivity, specificity, estimated recombination rate and support value mean for last five scenarios.

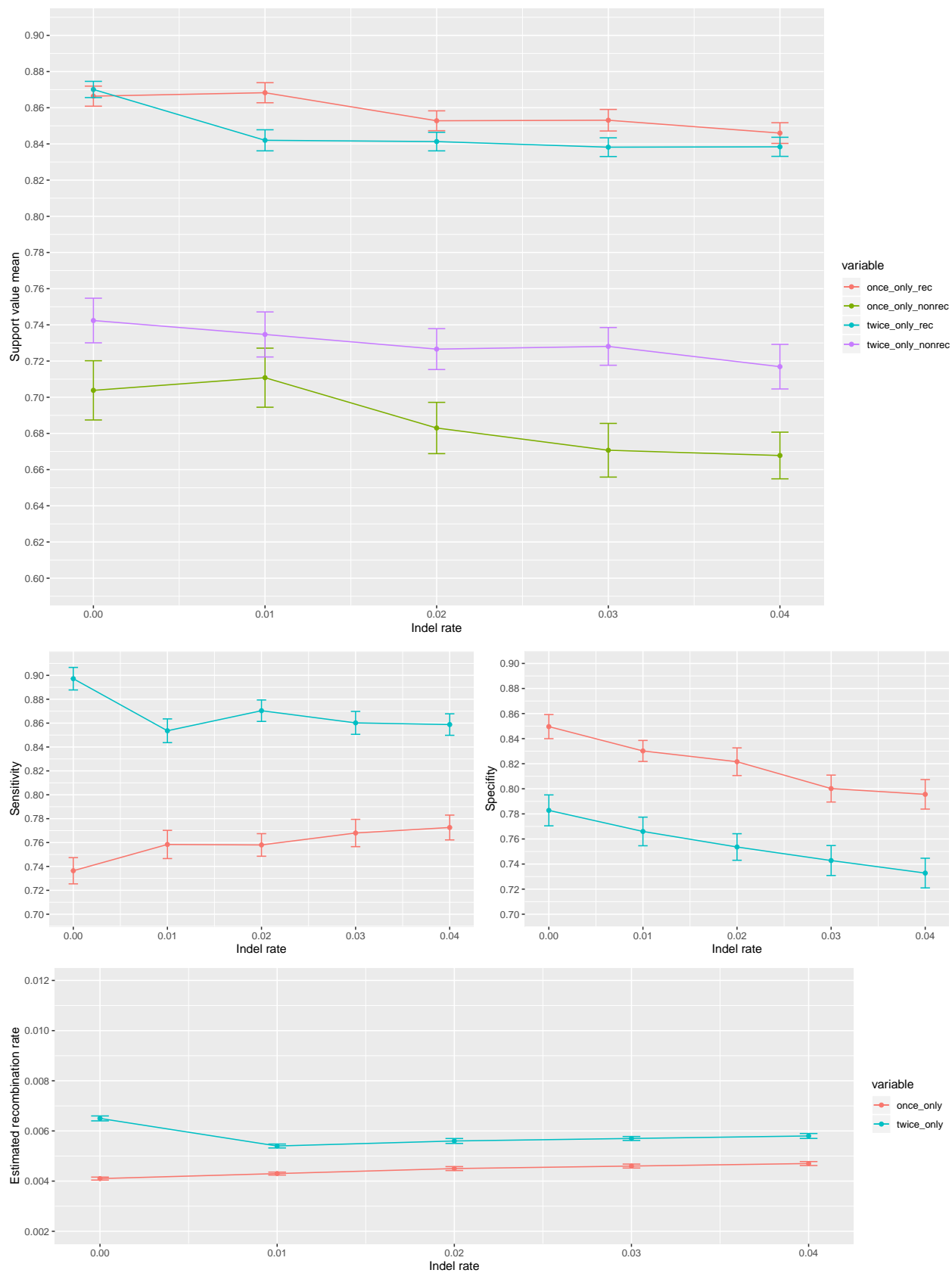
Legends for all the following plots include once-only, twice only, indicating the two-parent and three-parent cases respectively.

## 2. Different mutation rates

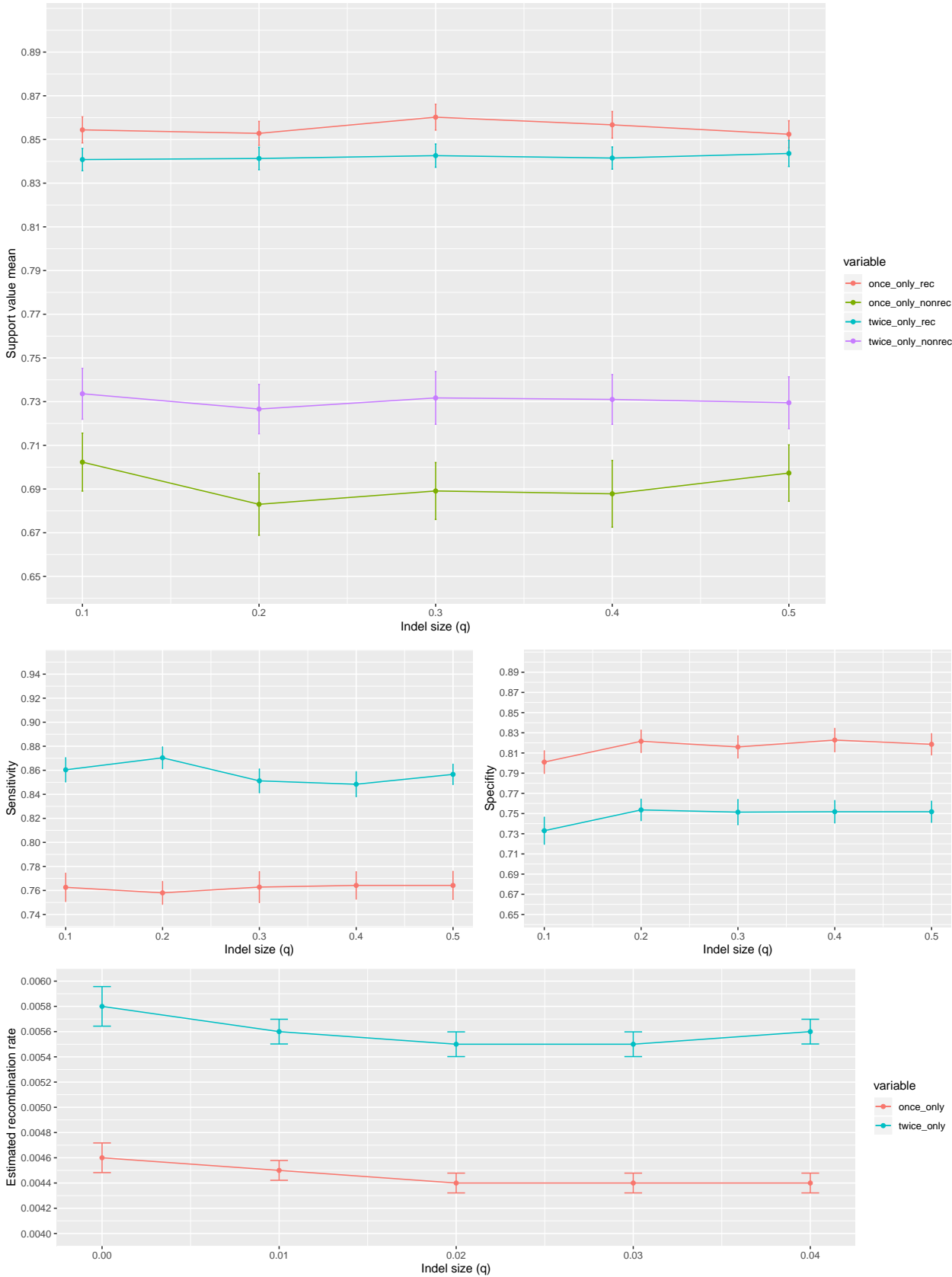




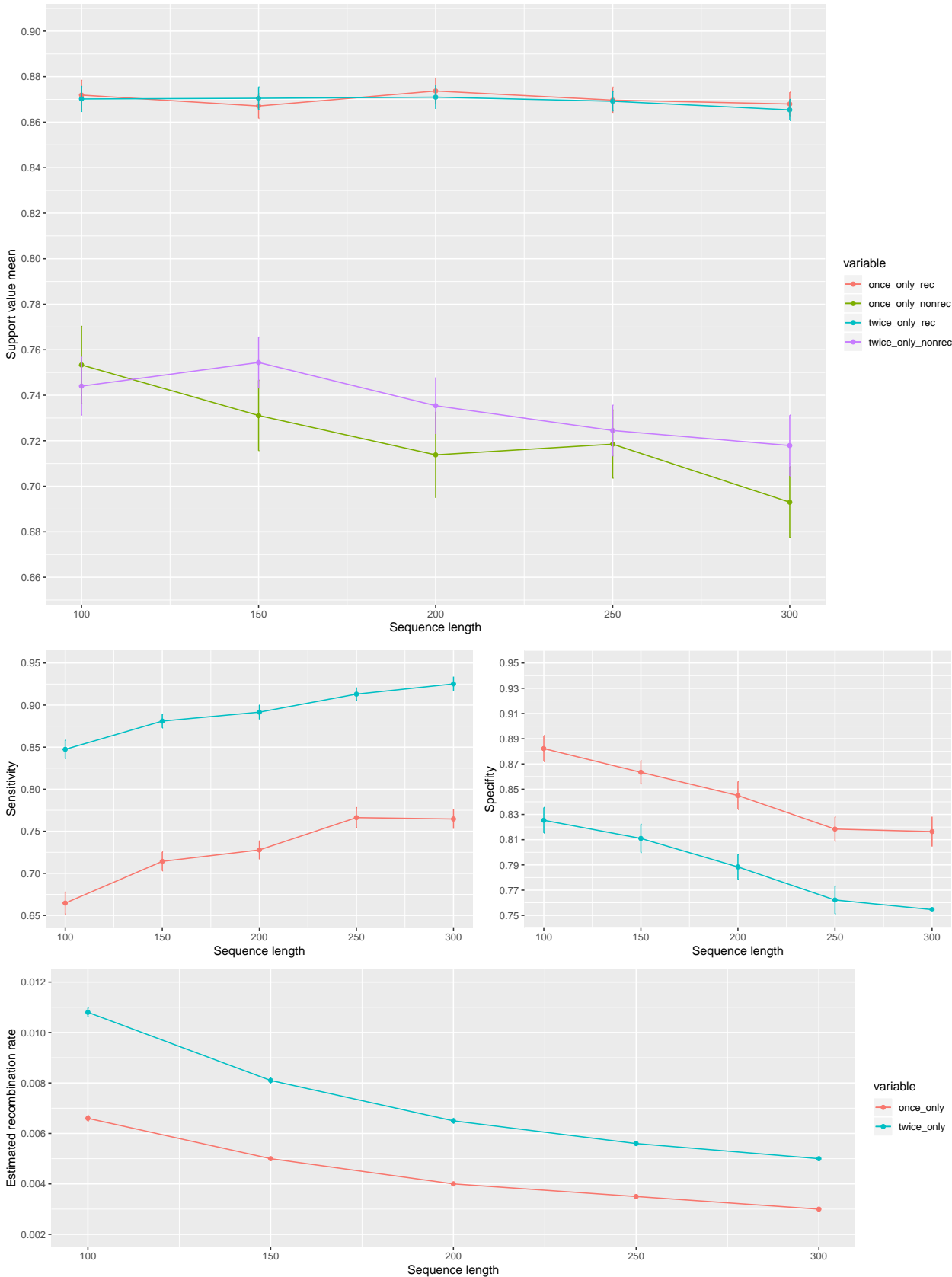
### 3. Different indel rates



4. Different indel sizes



5. Different sequence lengths



6. Different amino acid models.

