

# Supporting Information

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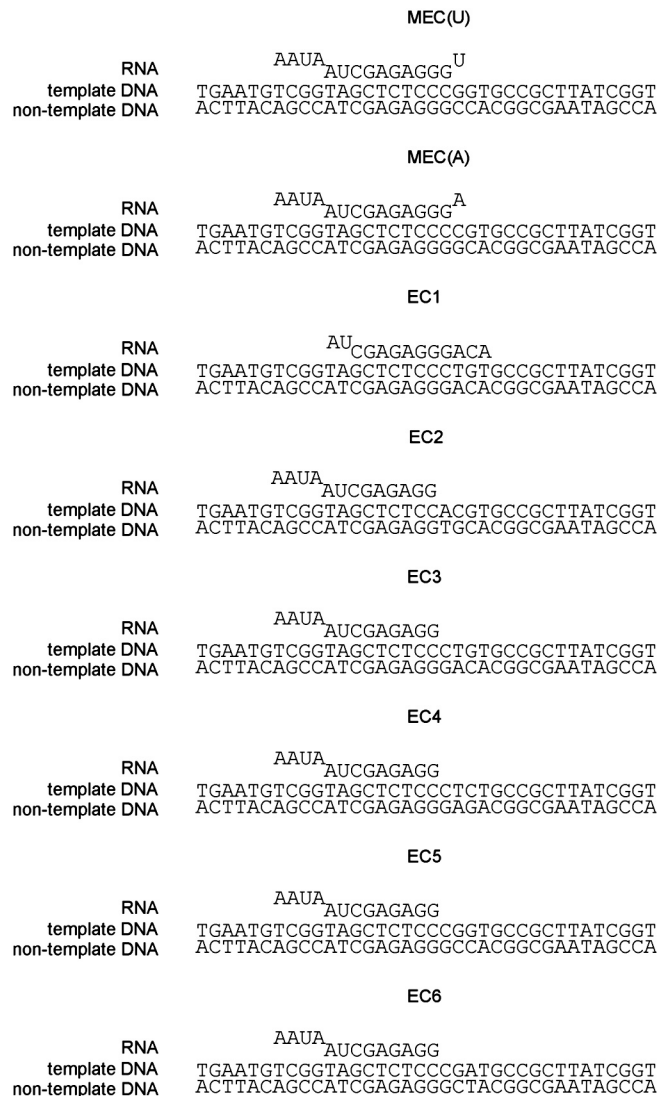
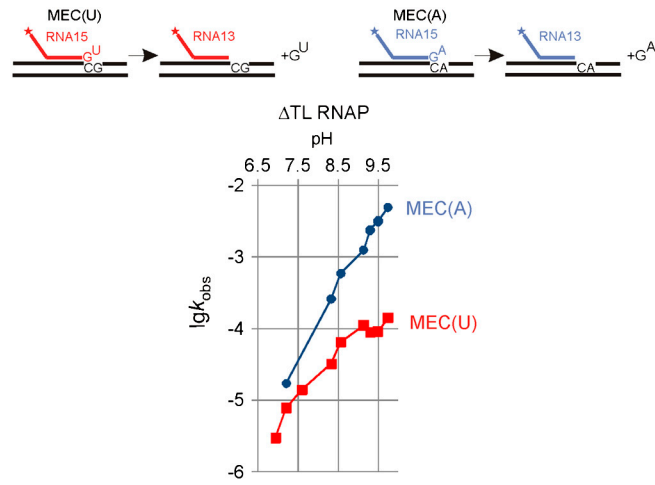


Fig. S1. Elongation complexes used in the study. Shown are the sequences of nucleic acid scaffolds used to assemble elongation complexes.





**Fig. S4.** pH profiles of second phosphodiester bond hydrolysis in MEC(U) (Red) and MEC(A) (Blue) complexes (colors correspond to reactions shown schematically above the plots) by  $\Delta$ TL RNAP.