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(54) Title: AP50 POLYMERASES AND USES THEREOF

(57) Abstract: The present disclosure relates in some aspects to recombinant Bacillus phage AP50 polymerases, modified AP50 poly-
merases, and compositions thereof. Also provided are methods of using the recombinant and/or modified AP50 polymerases for nucleic
acid amplification (e.g., rolling circle amplification). In some aspects, the compositions and methods disclosed herein provide more
robust amplification (e.g., RCA) reactions for improved in vitro and in situ analysis.



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