

New Method for Detection of T4 Polynucleotide Kinase Phosphatase Activity through Isothermal EXponential Amplification Reaction

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1. DNA sequences

DNA sequences have been exhibited in Table S1. The specific recognition sequence for Nt.BstNBI is underlined.

Table S1 DNA sequences

DNA	Sequences (5' → 3')
22-nt trigger (S)	TGA GGT AGT AGG TTG TAT AGT T-PO ₄
54-nt template (L)	AAC TAT ACA ACC TAC TAC CTC <u>AAA CAG ACT CAA</u> ACT ATA CAA CCT ACT ACC TCA-NH ₃

2. Results and discussion

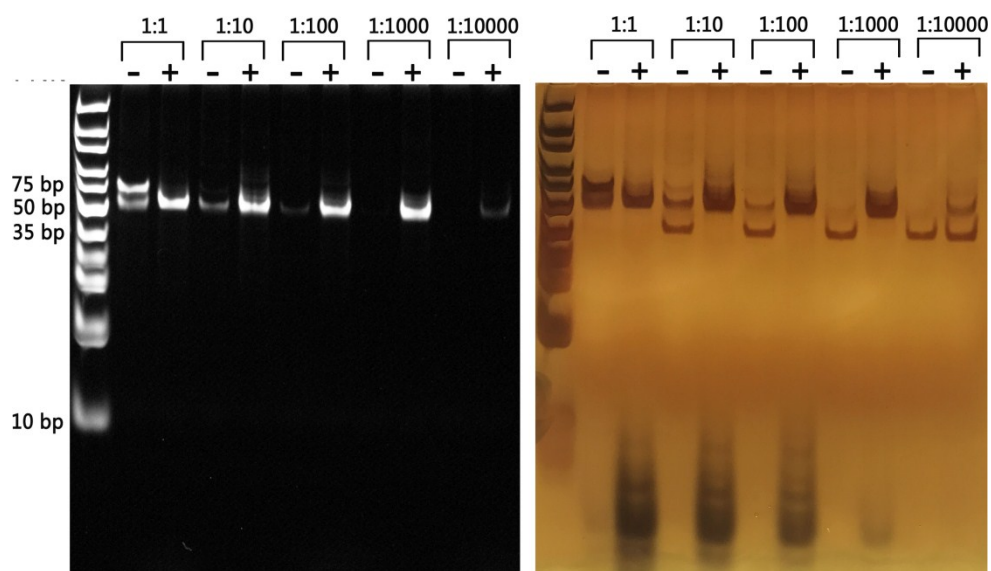


Fig. S1 Electropherogram for polyacrylamide gel electrophoresis and the corresponding result after silver staining with T4 PNKP and without T4 PNKP at different molar ratios between S strand and L strand