

# Template Amplification Protocol

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## 1 Procedure Purpose

In order to obtain useful Sanger sequencing results for testing single-basepair addition, large quantities of template DNA are necessary. This protocol uses an existing template and PCR to generate a large quantity of template DNA useful for testing the backspace synthesis method. [1]

## 2 Safety Information

1. **SYBR Gold** has no data available addressing the mutagenicity or toxicity of SYBR® Gold nucleic acid gel stain. Because this reagent binds to nucleic acids, it should be treated as a potential mutagen and handled with appropriate care. The DMSO stock solution should be handled with particular caution as DMSO is known to facilitate the entry of organic molecules into tissues.[2]

## 3 Materials

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## 4 Dilutions

- 1.

## 5 Procedure

### 5.1 Necessary Subsection

- 1.

## 6 Analysis

## References

- [1] C. V. Hao, “Exonuclease T Positive Control Replication.”
- [2] Invitrogen, “SYBR® Gold Nucleic Acid Gel Stain — 2 Working with the SYBR® Gold Gel Stain,”