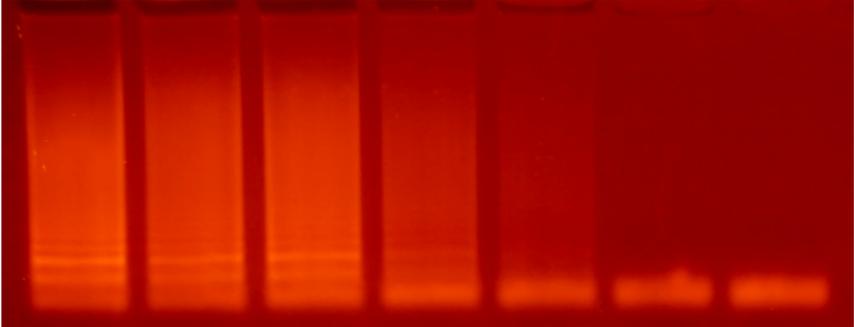


# ProRT Reverse Transcriptase

Datasheet, Version 2/2016

protean  
Forefront of Biotechnology

|           |                                   |   |                 |                 |                 |   |     |     |
|-----------|-----------------------------------|---|-----------------|-----------------|-----------------|---|-----|-----|
| Catalog # | 1972                              | 10 <sup>4</sup>   | 10 <sup>3</sup> | 10 <sup>2</sup> | 10 <sup>1</sup> | 1 | ct- | RT- |
| Synonyms  | MMLV-RT,<br>Thermostable<br>RT H- |             |                 |                 |                 |   |     |     |
| Type      | Recombinant                       |   |                 |                 |                 |   |     |     |
| Source    | E. coli                           |   |                 |                 |                 |   |     |     |
| Species   | MMLV                              |   |                 |                 |                 |   |     |     |
| Tag       | His6                              |   |                 |                 |                 |   |     |     |
| Form      | Liquid                            |   |                 |                 |                 |   |     |     |
| Purity    | >95% by<br>SDS PAGE               | RT-LAMP assay detecting SARS-CoV-2 virus.<br>Serial dilution of viral isolate (copy numbers). |                 |                 |                 |   |     |     |
| Shipping  | Ice pack                          |   |                 |                 |                 |   |     |     |

## Introduction

Moloney Murine Leukemia Virus encoded sequence of reverse transcriptase was in silico optimized and produced in E.coli strain.

## Description

Highly active recombinant enzyme with an increased thermal stability. RNase H-minus fragment of reverse transcriptase suitable for all molecular techniques requiring reliable reverse transcriptase activity, such as RT-PCR and RT-LAMP assays. An increased thermal stability of this particular enzyme allows coupled reverse transcription at elevated temperatures up to 60°C, which results in an increased sensitivity and specificity of various detection techniques. The concentration is 200 U/ul.

## Application

RT-LAMP, RT-PCR, RT-qPCR

## Purification method

Affinity chromatography. The enzymes supplied by Protean Ltd. are manufactured in a certified environment under ISO 9001 and ISO 13485 international standards, which fully qualifies them for use in downstream GMP certified processes.

## Formulation

Storage buffer: 10mM Tris (pH 7.5), 50mM KCl, 1mM DTT, 0.1mM EDTA, 0.1% Triton, 50% glycerol.  
10x Reaction Buffer: Proprietary optimized buffer.

## Specificity

RNA

## Storage

Store at -20°C

**Analyte specific reagent (ASR) manufactured under ISO 13485.**

**Country of origin: Czech Republic**

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ISO 9001 & ISO 13485  
CERTIFIED



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