

## New England Biolabs Certificate of Analysis

**Product Name:** *ProtoScript® First Strand cDNA Synthesis Kit*  
**Catalog Number:** *E6300L*  
**Packaging Lot Number:** *10242960*  
**Expiration Date:** *10/2025*  
**Storage Temperature:** *-20°C*  
**Specification Version:** *PS-E6300S/L v2.0*

ProtoScript® First Strand cDNA Synthesis Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
E6300S	ProtoScript® First Strand cDNA Synthesis Kit	10240892	Pass

Assay Name/Specification	Lot # 10242960
<p><b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in ProtoScript® First Strand cDNA Synthesis Kit and meet the designated specifications.</p>	<b>Pass</b>
<p><b>Functional Testing (RT-PCR, Length)</b> The performance of M-MuLV Reaction Mix with 1X M-MuLV Enzyme Mix is tested in a 20 µl RT reaction with 1 µg Human total RNA. The length of the product is verified by amplification of the p532 gene using 0.4 µl of the RT reaction and 35 cycles of PCR amplification resulting in the expected 5.5 kb product.</p>	<b>Pass</b>
<p><b>Functional Testing (RT-PCR, Sensitivity)</b> The performance of M-MuLV Reaction Mix with 1X M-MuLV Enzyme Mix is tested in a 20 µl RT reaction with 20 pg Human total RNA. The sensitivity of the product is verified by amplification of GAPDH using 0.4 µl of the RT reaction and 35 cycles of PCR amplification resulting in the expected product.</p>	<b>Pass</b>

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*Christie Vazquez*

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29 May 2024

*Michael Tonello*

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29 May 2024