

## PRODUCT INFORMATION

**tdTomato mRNA (unmodified)**

v. 241101

<b>Catalog number</b>	CR00029-100UG / CR00029-1MG
<b>Package</b>	100 µg / 1 mg
<b>Description</b>	<p>tdTomato mRNA is a synthetic mRNA that encodes tdTomato, a bright red fluorescent protein. It is widely used in molecular and cell biology research for real-time visualization of cellular processes. tdTomato mRNA emits light at 581 nm and is ideal for tracking gene expression, protein localization, and live cell imaging.</p> <p>Croyez's tdTomato mRNAs was generated through in vitro transcription, and these mRNAs are then fortified at their 5' end by modified nucleotide capping, known as Cap1. To mimic the characteristics of fully processed mature mRNAs, we incorporate a poly(A) tail at the 3' end and optimize the mRNAs to enhance stability and overall performance. This ensures that the mRNAs function similarly to naturally occurring mature mRNAs in cells.</p>
<b>mRNA length</b>	2035 nt
<b>Base Composition</b>	Unmodified bases
<b>Concentration</b>	1.0 mg/ mL
<b>Cap Modification</b>	Cap 1 structure
<b>Poly A tail</b>	Yes
<b>Form</b>	Liquid
<b>Buffer</b>	1 mM sodium citrate buffer, pH 6.4.
<b>Storage</b>	<p>Products can be stored at -80°C or below.</p> <p>We recommend to aliquot the mRNA solution for a better storage. Avoid repeated freeze/thaw cycles.</p>
<b>Shipping</b>	The products are shipped on dry ice and should be avoided for freeze-thaw cycles.
<b>Application</b>	Reporter Genes

*For Research Use Only. Not for use in diagnostic or therapeutic procedures.*