Miltenyi Biotec

StemMACS™ eGFP mRNA

Order no. 130-101-114

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1. Description

This product is for research use only.

Components	**20 µg StemMACS™ eGFP mRNA** encoding enhanced green fluorescent protein (eGFP). **1 mL Double-distilled Water,** RNase-free
Specifications	*In vitro* transcribed, polyadenylated and capped mRNA that has been modified with pseudouridine and 5-methyl-cytidine to reduce the innate antiviral response to single-stranded RNA.
Formulation	Lyophilized from a filtered (0.2 µm) solution.
Storage	Store the lyophilized product at –20 °C. The expiration date is indicated on the label. After reconstitution, the product can be stored at –70 °C for up to 3 months.
Quality control	mRNA size has been verified on an Agilent Bioanalyzer System. eGFP protein expression after transfection was confirmed by immunofluorescence.

1.1 Principle

The transient expression of key developmental regulators, recombinases or markers via mRNA transfection is a powerful tool for modulating cell fate. StemMACS mRNAs are highly pure, *in vitro*-transcribed mRNAs that have been carefully optimized and validated to ensure high level expression after transfection.

1.2 Background information

StemMACS eGFP mRNA was designed for transient expression of the eGFP protein after transfection. Fluorescence of the eGFP protein can be easily detected by fluorescence microscopy or flow cytometry. StemMACS eGFP mRNA is therefore ideal for monitoring and optimizing transfection efficiency and is recommended as a positive control for mRNA transfections.

1.3 Applications

- Positive control for mRNA transfections
- Optimization of mRNA transfection protocols

2. Protocol: Reconstitution of lyophilizate

▲ RNA is susceptible to degradation by exogenous ribonucleases. Wear gloves, use RNase-free reagents, tubes, and pipette tips.

1. Dissolve StemMACS eGFP mRNA in 200 µL of Double-distilled Water. Vortex thoroughly. The final concentration will be 0.1 µg/µL.
2. Briefly centrifuge to collect the content at the bottom of the tube.
3. Prepare aliquots and store at –70 °C to –80 °C. Do not subject aliquots to more than two freeze-thaw cycles.

For satisfactory transfection results, use a protocol that is optimized for your specific cell type.

Refer to **www.miltenyibiotec.com** for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com/local to find your nearest Miltenyi Biotec contact.

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