


# pRABBIT IgG IRES-EmGFP Positive Control Vector

Catalog Number A39243

Pub. No. MAN0018609 Rev. A.0

 **WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from [thermofisher.com/support](http://thermofisher.com/support).

## Product description

The pRABBIT IgG IRES-EmGFP Positive Control Vector is a mammalian expression control vector that contains pcDNA<sup>TM</sup> 3.4 plasmids expressing the heavy and light chains of full-length rabbit IgG and Emerald Green Florescent Protein (EmGFP). This vector is used as a positive expression control for transient protein expression systems such as the Expi293<sup>TM</sup> Expression System, the ExpiCHO<sup>TM</sup> Expression System, the FreeStyle<sup>TM</sup> 293 Expression System, and the FreeStyle<sup>TM</sup> CHO Expression System.

## Contents and storage

The control vector is provided as a ready-to-use transfection-grade plasmid at a concentration of 1 mg/mL with a 2:1 light chain: heavy IgG chain ratio and is sufficient to transfect up to 150 mL of Expi293F<sup>TM</sup> cell culture.

Content	Amount	Storage
pRABBIT IgG IRES-EmGFP Positive Control Vector	150 µg (at 1 mg/mL)	-20°C

## Transfection in Expi293F<sup>TM</sup> Cells

For information and protocols describing transfection of Expi293F<sup>TM</sup> Cells using pRABBIT IgG IRES-EmGFP Positive Control Vector, refer to the *Expi293<sup>TM</sup> Expression System User Guide* (Pub. No. MAN0007814) available at [thermofisher.com](http://thermofisher.com).

## Expression in Expi293F<sup>TM</sup> Cells

pRABBIT IgG IRES-EmGFP Positive Control Vector is used at a concentration of 1 µg/mL of culture (that is 1 µL/mL of total culture volume).

The rabbit IgG that is produced in Expi293F<sup>TM</sup> Cells after transfection with the control vector is secreted into Expi293<sup>TM</sup> Expression Medium, with optimal yields occurring 5–7 days posttransfection (typical yield range: 450–500 mg/L).

EmGFP accumulates in Expi293F<sup>TM</sup> Cells 24–96 hours posttransfection. GFP fluorescence can be used to qualitatively assess cellular transfection by fluorescence microscopy, fluorescent plate reader, or flow cytometry using standard GFP settings of 488 nm excitation and 510 nm emission.

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Revision	Date	Description
A.0	14 April 2019	New document.

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