

pRS-tGFP: effective shRNA against tGFP

Catalog # TR30009

Product Description: Transfection grade purified mammalian expression plasmid carrying a 29-mer hairpin sequence against tGFP (turboGFP). The shRNA suppress tGFP expression effectively. This product is a positive control for any tGFP expression plasmid, including pGFP-V-RS vectors.

Target Gene Information: Turbo green fluorescent protein (tGFP) information is found in international PCT application WO2004058973. The shRNA sequence does not align with any published NCBI human sequence.

Species of Target Gene: *Pontellina plumata*

Content: Each vial contains 5 ug of dried and purified plasmid DNA.

Storage and Stability: The plasmid is stable for at least 1 yr at -20°C from the date of shipment.

Guarantee: This product is guaranteed to effectively knock down tGFP expression in cotransfection assays following the protocols provided.

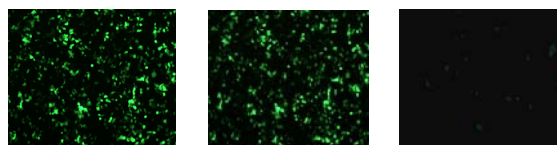
Quality Control Assays:

Gel Electrophoresis: The plasmid was run on an agarose gel along with a fixed amount of a control plasmid to ensure the right size and DNA amount.

DNA Sequence Analysis: The plasmid was sequenced and the insert sequence was examined and confirmed.

Functional Analysis: Fluorescent microscopic examination of HEK293 cells 48 hours after co-transfection of pRS-shGFP with a GFP plasmid. TR30009 displayed over 80% knockdown.

TR30009 is effective in knocking down tGFP expression



HEK293 cell was transfected with pCMV-tGFP (Left), pCMV-tGFP + pRS (Middle), or pCMV-tGFP + pRS-tGFP shRNA construct (Right). Cells were in a 96 well plate. Pictures were taken at 48 hrs after transfection

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