HuSH 29-mer shRNA Expression Plasmid Against GFP

pRS-shGFP (29)
Catalog # TR30001

**Product Description:** Transfection grade purified mammalian expression plasmid carrying a 29-mer GFP sequence cassette that when transfected into mammalian cells, expresses a short-hairpin RNA (shRNA) from the U6 promoter resulting in the inhibition of GFP expression.

**Target Gene Information:** Enhanced green fluorescent protein (EGFP), GenBank Accession Number U55761. Construct 2 (below) is offered and the sequence information of the full cassette is available.

**Species of Target Gene:** Aequorea Victoria

**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 inhibit EGFP expression by at least 70% when co-transfected with the EGFP plasmid in HEK293 cells following the protocols provided.

**Related Products:** pRS-EGFP for gene over expression.

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**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 5 individual pRS-shGFP (29) algorithm designed constructs with a GFP plasmid. Construct 2 displayed the strongest inhibition in three experiments and offered as **TR30001**. Construct 5 is a negative control (non-effective pRS-shGFP) and is offered as **TR30003**.

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Significant down regulation of EGFP by 29mer shGFP constructs in HEK293 cells

![Fluorescent microscopic images of HEK293 cells transfected with different constructs](image)

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