

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.

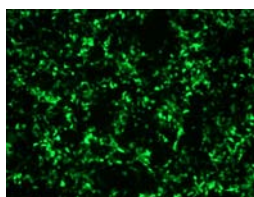
Quality Control Assays:

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.

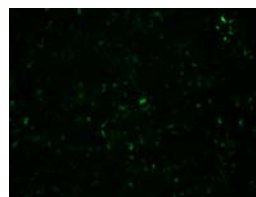
DNA Sequence Analysis: The plasmid was sequenced and the insert sequence was examined and confirmed.

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**.

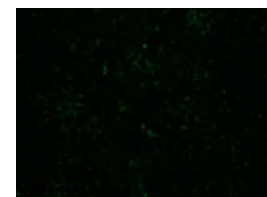
Significant down regulation of EGFP by 29mer shGFP constructs in HEK293 cells



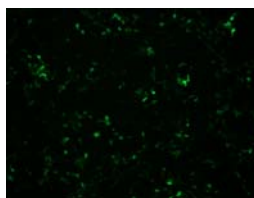
pGFP/ pRS



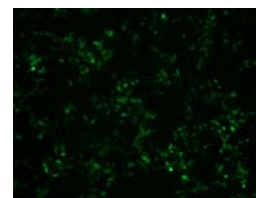
pGFP / Construct 1



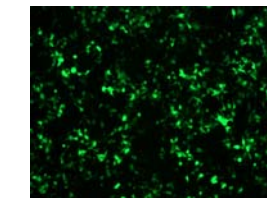
pGFP / Construct 2
TR30001



pGFP / Construct 3



pGFP / Construct 4



pGFP / Construct 5
TR30003

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