

HuSH 29-mer shRNA Expression Plasmid Against Luciferase

pRS-shLuc (29)
Catalog # TR30002

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

Target Gene Information: Luciferase (Luc), GenBank Accession Number P08659. shLuc1 (below) is offered and the sequence information of the full cassette is available.

Species of Target Gene: Firefly

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 luciferase expression by at least 70% when co-transfected with a luciferase plasmid into HEK293 cells following the protocols provided.

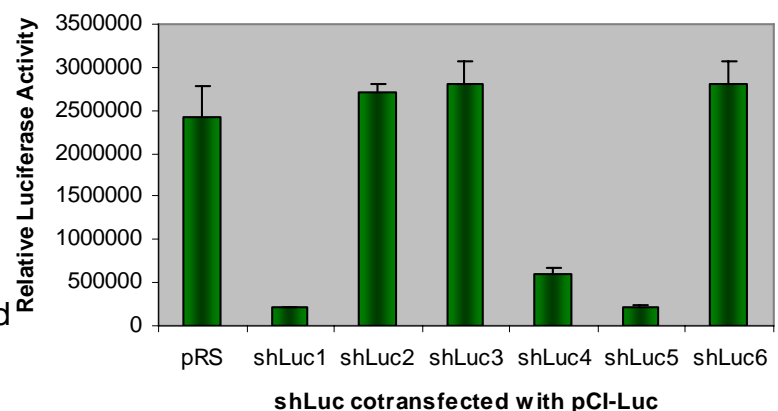
Quality Control Assays

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: Luciferase activity was assayed 24 hours after co-transfection of 6 individual pRS-shLuc (29) algorithm designed constructs with a pCI-Luc expression plasmid. shLuc1 displayed the strongest inhibition in three experiments and is offered as TR30002. Three out of six pRS-shLuc inhibited pCI-Luc activity by over 70%.

Significant Inhibition of pCI-Luc Activity by 29mer shLuc



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