

HuSH shRNA Plasmid, pRS Vector

pRS shRNA Cloning Plasmid Catalog # TR20003

Product Description:

- Plasmid vector for cloning shRNA expression cassettes
- Designed for long term gene silencing studies
- MMLV LTR sequences for packaging into retroviral particles
- Puromycin resistance marker for easy selection of infected or transfected cells
- U6 polymerase III promoter for shRNA expression
- BamHI and HindIII sites convenient for the cloning of shRNA expression cassettes

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 for the correct sequences and listed functions.

Related Products: Specific HuSH constructs are available at OriGene covering the full human genome.

Quality Control Assays

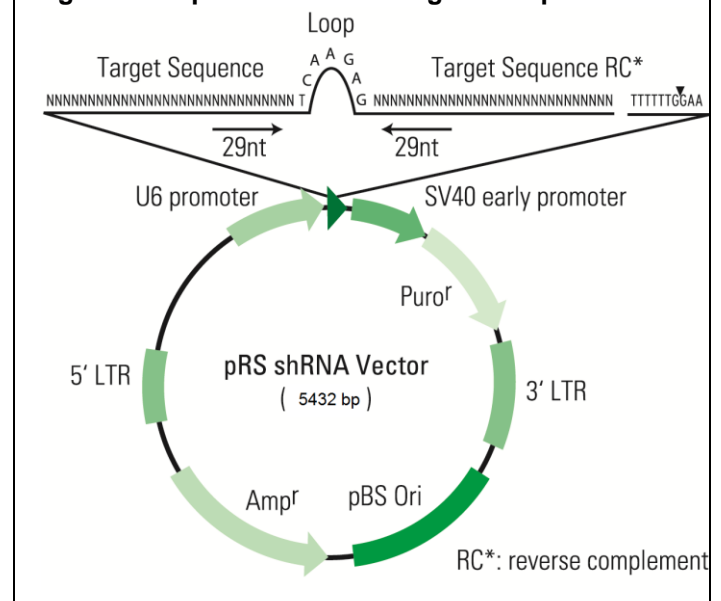
DNA Quantitation: The concentration of the purified plasmid was determined at OD_{260} by a UV spectrometer.

DNA Sequence Analysis: The final purified plasmid was sequenced to confirm its identity.

Functional Analysis:

1. Cloning: the pRS cloning plasmid was digested with BamHI and HindIII and the digested fragment isolated. Multiple shRNA expression cassettes were cloned into this plasmid.
2. Inhibition of target gene: shRNA constructs cloned into pRS were verified for inhibition of target genes. See related products, shRNA GFP, shRNA Luc with both 21-mer and 29-mer constructs.
3. Stable cell lines: pRS was verified to generate stable cell lines using retroviral packaging system or by direct transfection.

Figure 1: Map of shRNA Cloning Vector pRS



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