



## Feature Summary

<b>Tested</b>	Experimentally verified design algorithm ensures efficacy.
<b>Specificity</b>	Minimizes off-target effect with the Smith-Waterman specificity search.
<b>Plasmid Backbone</b>	U1 promoter transcribes moderate shRNA amount: minimal off-target effect & toxicity Bacterial origin of replication and ampicillin-resistance marker: amplify life-time supply Mammalian Expression Markers: <b>Neomycin or Puromycin Resistance:</b> select stably transfected cells , study long term effects <b>GFP Marker:</b> enrich or track transiently transfected cells, study short term effects

Unlike chemically synthesized siRNA, plasmid-based shRNA provides a renewable source of RNA interference. You can amplify enough plasmid to complete any number of projects in your lab. Purchase of SureSilencing™ shRNA plasmids includes complete shRNA sequence information.

\* **The SureSilencing™ shRNA Guarantee:** At least two of the provided pre-designed SureSilencing™ shRNA Plasmids are guaranteed to knock down expression of the targeted gene at the RNA level by at least 70 percent as measured by real-time qRT-PCR in transfected cells upon FACS-based enrichment for GFP expression or selection for neomycin or puromycin resistance as described in the User Manual.

## Applications

- **Use RNAi in virtually any cell line:**  
Accommodates both low and high transfection efficiencies.
- **Stable transfections with resistance markers:**  
Study slow effects using any gene function assay.
- **Transient transfections GFP-enriched by FACS:**  
Study quick effects using any gene function assay.
- **Transient transfections GFP-tracked by fluorescence microscopy:**  
Study quick effects using cell-based imaging and gene function assays.

## SureSilencing™ shRNA Plasmid Ordering Guide

Find the shRNA for your genes at: [www.SABiosciences.com/RNAisearch.php](http://www.SABiosciences.com/RNAisearch.php)

Cat. No.	Description
KX#####N	SureSilencing™ shRNA Plasmid with Neomycin Resistance
KX#####P	SureSilencing™ shRNA Plasmid with Puromycin Resistance
KX#####G	SureSilencing™ shRNA Plasmid with GFP Marker

X = H for Human, M for Mouse, or R for Rat

### Related Products:

For Real-Time PCR Verification of Knock Down:  
RT<sup>2</sup> PCR qPCR Assays: Available for all shRNA target genes and housekeeping genes  
RT<sup>2</sup> Real-Time™ SYBR Green Master Mix  
RT<sup>2</sup> First Strand Kit (C-03)

## Focus on your Pathway



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