

# TRIPZ Lentiviral inducible shRNAmir

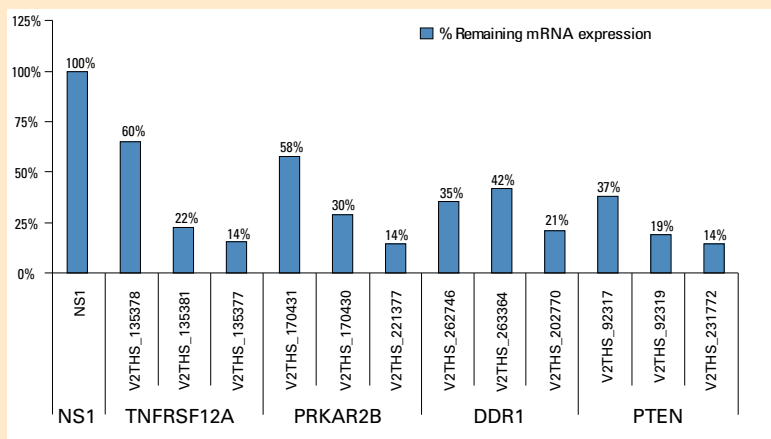
*Perform inducible RNAi on a genome scale.*

Study essential genes, validate cellular phenotypes and generate stable, inducible cell lines with Thermo Scientific Open Biosystems TRIPZ Inducible Lentiviral shRNAmir Library.

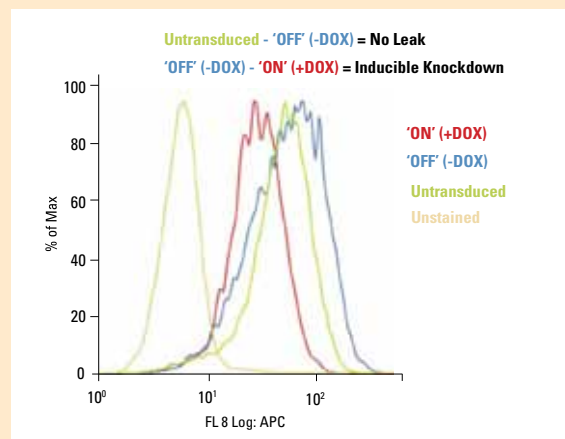
- microRNA-adapted design for greater specificity and lower toxicity<sup>1</sup>
- Track shRNAmir expression with TurboRFP
- Lentiviral delivery expands regulatable RNAi options in primary and non-dividing cells
- Human genome coverage available as individual clones, gene sets, or whole genome library
- Guaranteed knockdown.\*

<sup>1</sup>McBride, *et al.* (2008) Artificial miRNAs mitigate shRNA-mediated toxicity in the brain: PNAS, (15) 5868-5873.

\*When purchased as a TRIPZ Lentiviral RNAintro starter kit and used according to recommended protocols



**Figure 1.** High levels of knockdown achieved after induction with doxycycline: Knockdown of indicated target genes in HEK293T cells compared to a non-silencing control as determined by QPCR. Each bar represents an experimental duplicate while QPCR was performed triplicate using 18S rRNA as an internal reference. HEK293T cells were transduced at an MOI=0.3, puromycin selected (5 µg/ml), and induced with doxycycline (1 µg/ml).



**Figure 2.** Decrease in protein level without 'leaky' expression shown by FACS analysis. Immunocytochemistry was used to detect the cell surface marker AXL protein by FACS in HeLa cells following transduction with TRIPZ shRNAmir. The left-shift of the peaks denotes a decrease in the AXL protein level after induction relative to uninduced (blue peak). An untransduced

**Limited time promotion:  
Take 15% off the purchase of any TRIPZ Lentiviral RNAintro kit.**

**Use promotion code INTRO15. Offer expires March 31, 2010.**

#### Gene Analysis

#### Belgium

Tel: 0800 80543  
Fax: 0800 80178

#### France

Tel: 08009 14294  
Fax: 08009 11885

#### United Kingdom

Tel: 08009 171501  
Fax: 01372 840545

#### The Netherlands

Tel: 08000 223464  
Fax: 08000 223291

#### Switzerland

Tel: 08005 63505  
Fax: 08008 38669

Web: [openbiosystems@thermofisher.com](mailto:openbiosystems@thermofisher.com)  
E-mail: [www.thermo.com/RNAintrokit](http://www.thermo.com/RNAintrokit)

**Thermo**  
SCIENTIFIC

Part of Thermo Fisher Scientific