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Product datasheet for TL516400

Trip12 Mouse shRNA Plasmid (Locus ID 14897)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Trip12 Mouse shRNA Plasmid (Locus ID 14897)
Locus ID:	14897
Synonyms:	1110036I07Rik; 6720416K24Rik; AA410158; Gtl6; TRIP-12
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Trip12 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 14897). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	BC034113, NM_133975, NM_133975.1, NM_133975.2, NM_133975.3, NM_133975.4, BC004085, BC044869
UniProt ID:	G5E870
Summary:	E3 ubiquitin-protein ligase involved in ubiquitin fusion degradation (UFD) pathway and regulation of DNA repair. Part of the ubiquitin fusion degradation (UFD) pathway, a process that mediates ubiquitination of protein at their N-terminus, regardless of the presence of lysine residues in target proteins. In normal cells, mediates ubiquitination and degradation of isoform p19ARF/ARF of CDKN2A, a lysine-less tumor suppressor required for p53/TP53 activation under oncogenic stress. In cancer cells, however, isoform p19ARF/ARF and TRIP12 are located in different cell compartments, preventing isoform p19ARF/ARF ubiquitination and degradation. Does not mediate ubiquitination of isoform p16-INK4a of CDKN2A. Also catalyzes ubiquitination of NAE1 and SMARCE1, leading to their degradation. Ubiquitination and degradation of target proteins is regulated by interaction with proteins such as MYC, TRADD or SMARCC1, which disrupt the interaction between TRIP12 and target proteins. Acts as a key regulator of DNA damage response by acting as a suppressor of RNF168, an E3 ubiquitin-protein ligase that promotes accumulation of 'Lys-63'-linked histone H2A and H2AX at DNA damage sites, thereby acting as a guard against excessive spreading of ubiquitinated chromatin at damaged chromosomes.[UniProtKB/Swiss-Prot Function]

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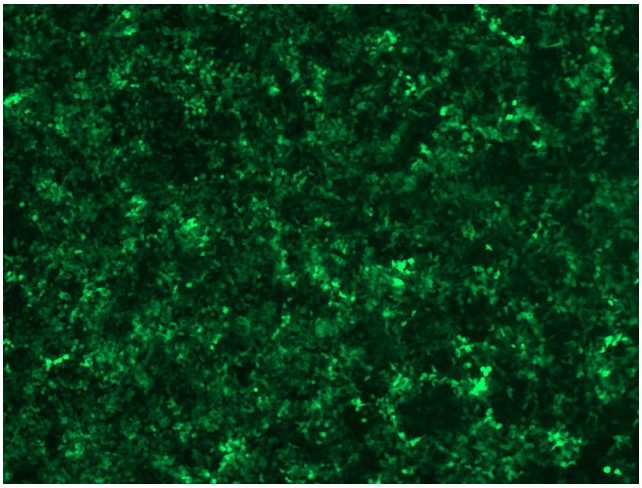
shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

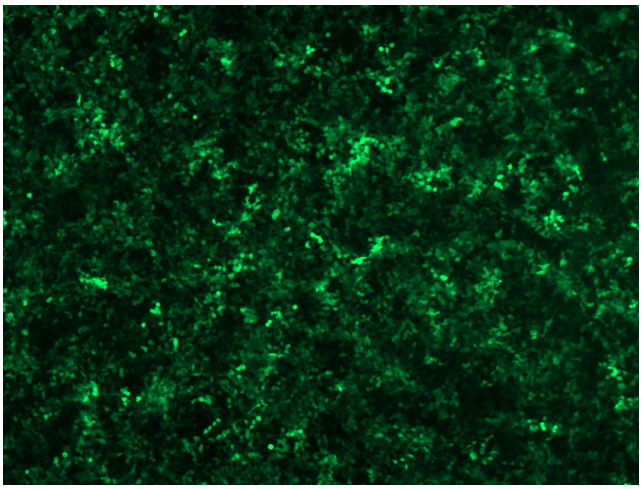
Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

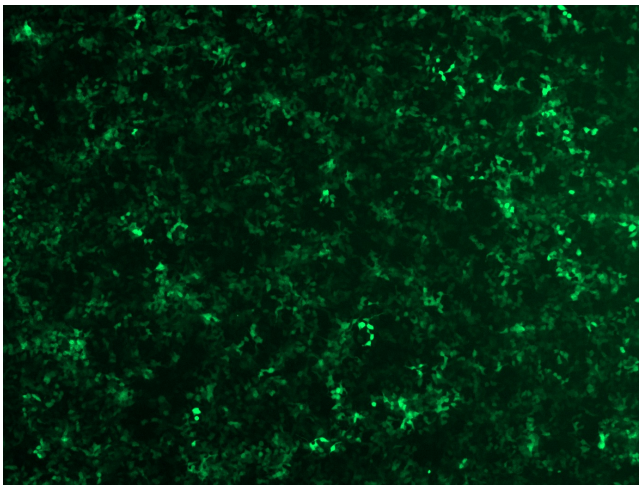
Product images:



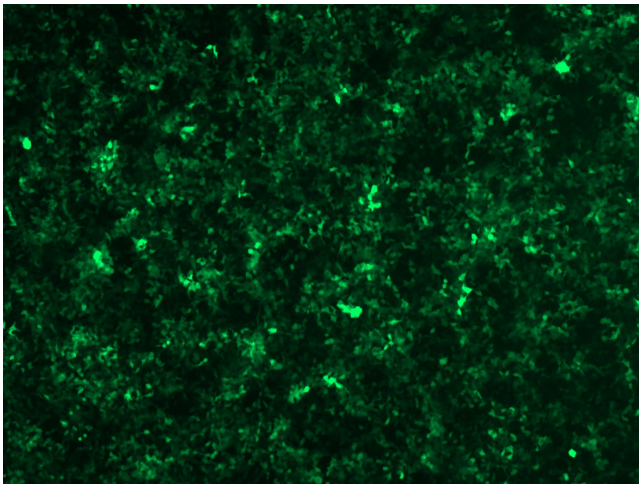
GFP signal was observed under microscope at 48 hours after transduction of TL516400A virus into HEK293 cells. TL516400A virus was prepared using lenti-shRNA TL516400A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL516400B virus into HEK293 cells. TL516400B virus was prepared using lenti-shRNA TL516400B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL516400C] virus into HEK293 cells. [TL516400C] virus was prepared using lenti-shRNA [TL516400C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL516400D] virus into HEK293 cells. [TL516400D] virus was prepared using lenti-shRNA [TL516400D] and [TR30037] packaging kit.