

Product datasheet for **TL320558V**

p53 (TP53) Human shRNA Lentiviral Particle (Locus ID 7157)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	p53 (TP53) Human shRNA Lentiviral Particle (Locus ID 7157)
Locus ID:	7157
Synonyms:	BCC7; BMFS5; LFS1; P53; TRP53
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	TP53 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, $>10^7$ TU/ml.
RefSeq:	<u>NM_000546</u> , <u>NM_001126112</u> , <u>NM_001126113</u> , <u>NM_001126114</u> , <u>NM_001126115</u> , <u>NM_001126116</u> , <u>NM_001126117</u> , <u>NM_001126118</u> , <u>NM_001276695</u> , <u>NM_001276696</u> , <u>NM_001276697</u> , <u>NM_001276698</u> , <u>NM_001276699</u> , <u>NM_001276760</u> , <u>NM_001276761</u> , <u>NM_000546.1</u> , <u>NM_000546.2</u> , <u>NM_000546.3</u> , <u>NM_000546.4</u> , <u>NM_000546.5</u> , <u>NM_001126116.1</u> , <u>NM_001126117.1</u> , <u>NM_001126115.1</u> , <u>NM_001126114.1</u> , <u>NM_001126114.2</u> , <u>NM_001126113.1</u> , <u>NM_001126113.2</u> , <u>NM_001126112.1</u> , <u>NM_001126112.2</u> , <u>NM_001276696.1</u> , <u>NM_001276695.1</u> , <u>NM_001126118.1</u> , <u>NM_001276760.1</u> , <u>NM_001276761.1</u> , <u>NM_001276698.1</u> , <u>NM_001276699.1</u> , <u>NM_001276697.1</u> , <u>BC003596</u> , <u>BC003596.1</u> , <u>NM_000546.6</u> , <u>NM_001276761.2</u> , <u>NM_001276699.2</u> , <u>NM_001276696.2</u> , <u>NM_001276698.2</u> , <u>NM_001276697.2</u> , <u>NM_001276695.2</u> , <u>NM_001276760.2</u>
UniProt ID:	<u>P04637</u>
Summary:	This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants (PMIDs: 12032546, 20937277). [provided by RefSeq, Dec 2016]
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 .

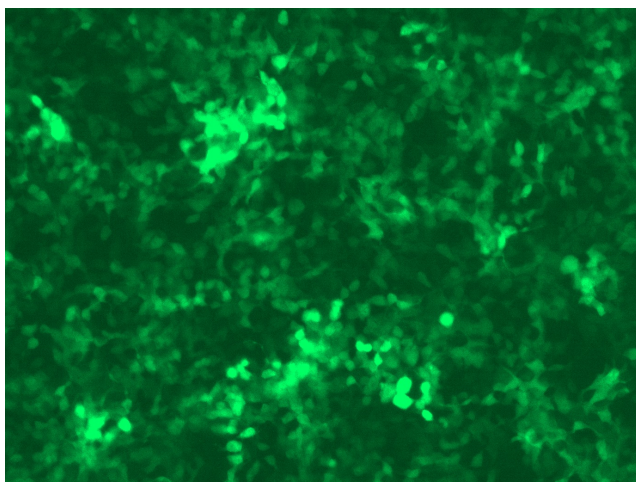

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**Performance
Guaranteed:**

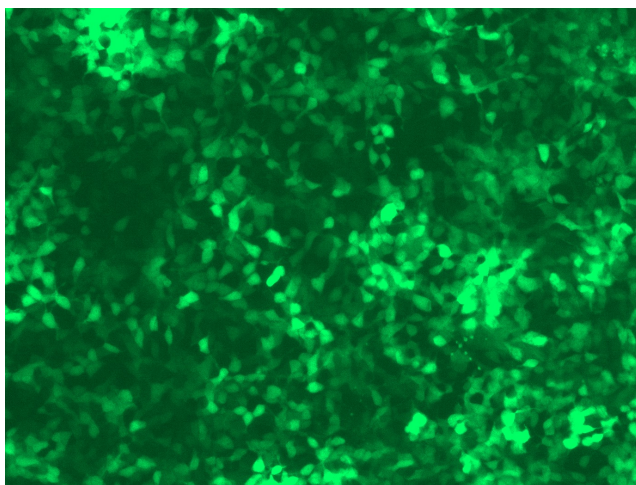
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs/particles at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection/transduction efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection/transduction. 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/transduced 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/particles, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection/transduction efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

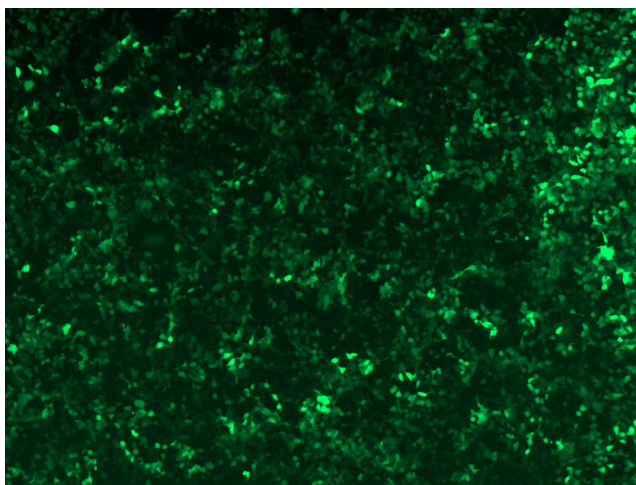
Product images:



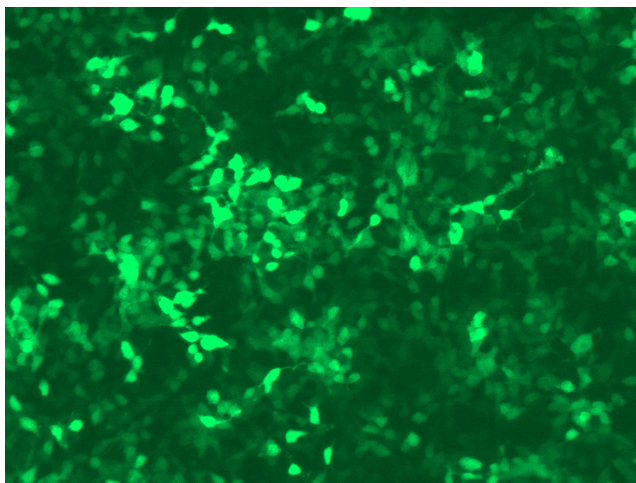
GFP signal was observed under microscope at 48 hours after transduction of TL320558A virus into HEK293 cells. TL320558A virus was prepared using lenti-shRNA TL320558A and [TR30037] packaging kit.



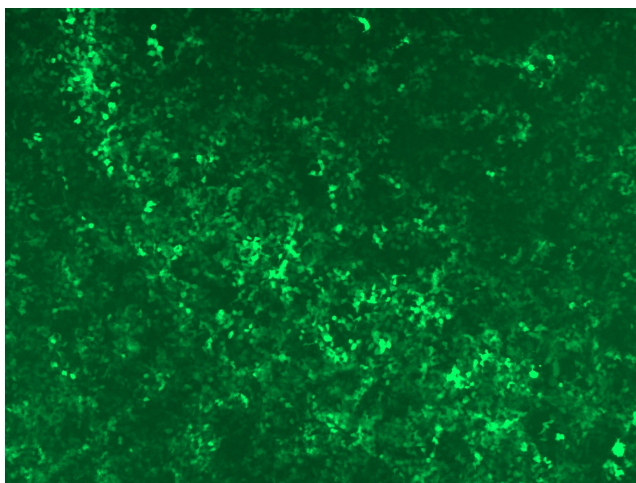
GFP signal was observed under microscope at 48 hours after transduction of TL320558B virus into HEK293 cells. TL320558B virus was prepared using lenti-shRNA TL320558B and [TR30037] packaging kit.



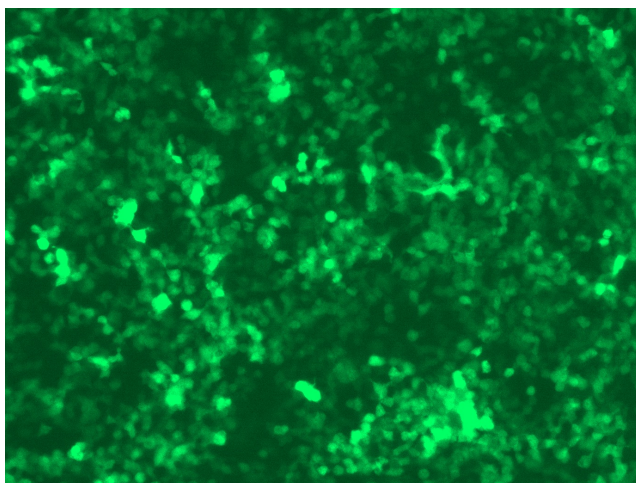
GFP signal was observed under microscope at 48 hours after transduction of TL320558B virus into HEK293 cells. TL320558B virus was prepared using lenti-shRNA TL320558B and [TR30037] packaging kit.



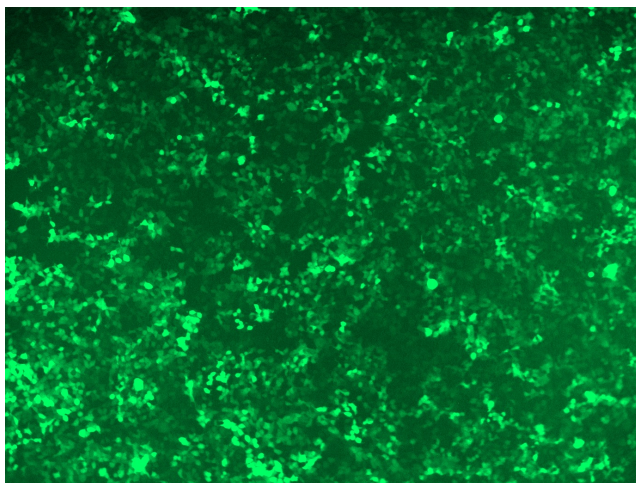
GFP signal was observed under microscope at 48 hours after transduction of [TL320558C] virus into HEK293 cells. [TL320558C] virus was prepared using lenti-shRNA [TL320558C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL320558C] virus into HEK293 cells. [TL320558C] virus was prepared using lenti-shRNA [TL320558C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL320558D] virus into HEK293 cells. [TL320558D] virus was prepared using lenti-shRNA [TL320558D] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL320558D] virus into HEK293 cells. [TL320558D] virus was prepared using lenti-shRNA [TL320558D] and [TR30037] packaging kit.