

Product datasheet for **TF320558**

p53 (TP53) Human shRNA Plasmid Kit (Locus ID 7157)

Product data:

Product Type:	shRNA Plasmids
Product Name:	p53 (TP53) Human shRNA Plasmid Kit (Locus ID 7157)
Locus ID:	7157
Synonyms:	BCC7; BMFS5; LFS1; P53; TRP53
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	TP53 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 7157). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
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>



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- 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](#).
- 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).