

Product datasheet for **KN200003RB**

p53 (TP53) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD

Symbol: p53

Locus ID: 7157

Components: **KN200003G1**, p53 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)
KN200003G2, p53 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)
KN200003RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.
GE100003, scramble sequence in pCas-Guide vector

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq: [NM_000546](#), [NM_001126112](#), [NM_001126113](#), [NM_001126114](#), [NM_001126115](#),
[NM_001126116](#), [NM_001126117](#), [NM_001126118](#), [NM_001276695](#), [NM_001276696](#),
[NM_001276697](#), [NM_001276698](#), [NM_001276699](#), [NM_001276760](#), [NM_001276761](#)

UniProt ID: [P04637](#)

Synonyms: BCC7; LFS1; P53; TRP53

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]



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Product images:

