

Product datasheet for **RG236344**

p53 (TP53) (NM_001276698) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: p53 (TP53) (NM_001276698) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TP53
Synonyms: BCC7; BMFS5; LFS1; P53; TRP53
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236344 representing NM_001276698.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCATCTACAAGCAGTCACAGCACATGACGGAGGTTGTGAGGCGCTGCCCCACCATGAGCGCTGC
TCAGATAGCGATGGTCTGGCCCCCTCAGCATCTTATCCGAGTGAAGGAAATTTGCGTGTGGAGTAT
TTGGATGACAGAAACACTTTTCGACATAGTGTGGTGGTGCCTATGAGCCGCTGAGGTTGGCTCTGAC
TGTACCACCATCCACTACAACATACATGTGTAACAGTTCCTGCATGGGCGGCATGAACCGGAGGCCATC
CTCACCATCATCACTGGAAGACTCCAGTGGTAATCTACTGGGACGGAACAGCTTTGAGGTGCGTGT
TGTGCCTGTCCTGGGAGAGACCGGCGCACAGAGGAAGAGAATCTCCGAAGAAAGGGGAGCCTACCAC
GAGCTGCCCCAGGGAGCACTAAGCGAGCACTGCCAACAACACCAGCTCCTCTCCCAGCCAAAGAAG
AAACCACTGGATGGAGAATTTTACCCTTCAGGACCAGACCAGCTTTCAAAAAGAAAATTGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236344
Blue=ORF Red=Cloning site Green=Tag(s)

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MAIYKQSQHMTEVVRRCPPHERCSDSGLAPPQHLIRVEGNLRVEYLDDRNTFRHSVVVPYEPPEVGS
CTTIHYNMNCSSCMGMNRRPILTIITLEDSSGNLLGRNSFEVVRVACPRDRRTEENLRKKGEPH
ELPPGSKRALPNNTSSSPQPKKPLDGEYFTLQDQTSFQKENC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDSHMHFSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites: Sgfl-MluI



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Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
RefSeq:	NM_001276698.2
RefSeq Size:	2404 bp
RefSeq ORF:	549 bp
Locus ID:	7157
UniProt ID:	P04637
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), Apoptosis, Basal cell carcinoma, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, Glioma, Huntington's disease, MAPK signaling pathway, Melanoma, Neurotrophin signaling pathway, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer, Thyroid cancer, Wnt signaling pathway
MW:	21.2 kDa
Gene 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]