

## Product datasheet for **RG232562**

### p53 (TP53) (NM\_001126118) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** p53 (TP53) (NM\_001126118) 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:** >RG232562 representing NM\_001126118  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATGATTTGATGCTGTCCCGGACGATATTGAACAATGGTTCACTGAAGACCCAGGTCCAGATGAAG  
 CTCCCAGAATGCCAGAGGCTGCTCCCCCGTGGCCCTGCACCAGCAGCTCTACACCGCGGCCCTGC  
 ACCAGCCCCCTCTGGCCCTGTCATCTTCTGTCCCTCCAGAAAACCTACCAGGGCAGCTACGGTTTC  
 CGTCTGGGCTTCTGCATTCTGGGACAGCCAAGTCTGTGACTTGACGTAATCCCTGCCCTCAACAAGA  
 TGTTTTGCCAACTGGCCAAGACCTGCCCTGTGCAGCTGTGGGTTGATTCCACACCCCGCCCGCACCCG  
 CGTCCGCGCCATGGCCATCTACAAGCAGTCACAGCACATGACGGAGGTTGTGAGGCGCTGCCCCACCAT  
 GAGCGCTGCTCAGATAGCGATGGTCTGGCCCTCCTCAGCATCTTATCCGAGTGGAAAGAAATTTGCGTG  
 TGGAGTATTTGGATGACAGAAACACTTTTCGACATAGTGTGGTGGTGCCTATGAGCCGCTGAGGTTGG  
 CTCTGACTGTACCACCATCCACTACAACACTATGTGTAACAGTTCCTGCATGGGCGGCAATGAACCGGAGG  
 CCCATCCTCACCATCATCACACTGGAAGACTCCAGTGGTAATCTACTGGGACGGAACAGCTTTGAGGTGC  
 GTGTTTGTGCTGCTCTGGGAGAGACCGGCGCACAGAGGAAGAGAATCTCCGCAAGAAAGGGGAGCCTCA  
 CCACGAGCTGCCCCAGGGAGCACTAAGCGAGCACTGCCCAACAACACCAGCTCCTCTCCCAGCCAAAG  
 AAGAAACCAGTGGATGGAGAATATTTACCCTTCAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCCGAG  
 AGCTGAATGAGGCTTGGAACTCAAGGATGCCAGGCTGGGAAGGAGCCAGGGGGAGCAGGGCTCACTC  
 CAGCCACCTGAAGTCCAAAAAGGGTCAGTCTACCTCCCGCCATAAAAACTCATGTTCAAGACAGAGGG  
 CCTGACTCAGAC

**ACGCGT**ACGCGGCGGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232562 representing NM\_001126118  
 Red=Cloning site Green=Tags(s)

MDDLMLSPDDIEQWFTEDPGPDEAPRMPEAAPPVAPAPAAPTPAAPAPAPSWPLSSSVPSQKTYQGSYGF  
 RLGFLHSGTAKSVTCTYSPALNKMFCQLAKTCPVQLWVDSTPPPGRVVRAMAIYKQSQHMTEVVRRCPHH  
 ERCSDSDGLAPPQHLIRVEGNLRVEYLDNRNTRFRHSVVVPYEPPEVGSDCITIHNYMNCNSSCMGGMNRR  
 PILTIITLEDSSGNLLGRNSFEVRYCACPGRRDRTEENLRKKGEPHHELPPGSTKRALPNNTSSSPQPK  
 KKPLDGEYFTLQIRGRERFEMFRELNEALELKDAQAGKEPGGSSRAHSSHLKSKKGQSTSRHKKLMFKTEG  
 PDS

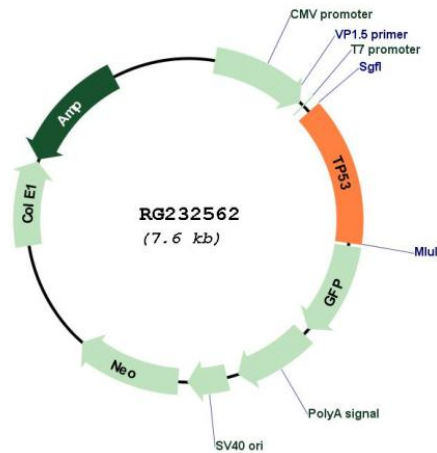
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001126118

<b>ORF Size:</b>	1062 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001126118.1</a> , <a href="#">NP_001119590.1</a>
<b>RefSeq Size:</b>	2708 bp
<b>RefSeq ORF:</b>	1065 bp
<b>Locus ID:</b>	7157
<b>UniProt ID:</b>	<a href="#">P04637</a>
<b>Cytogenetics:</b>	17p13.1
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
<b>Protein Pathways:</b>	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
<b>Gene Summary:</b>	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]