

Product datasheet for **RC224067**

PIG3 (TP53I3) (NM_147184) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIG3 (TP53I3) (NM_147184) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIG3
Synonyms:	PIG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224067 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTAGCCGTGCACTTTGACAAGCCGGGAGGACCGGAAAACCTCTACGTGAAGGAGGTGGCCAAGCCGA
 GCGCGGGGAGGGTGAAGTCTCTGAAGGTGGCGCCAGCGCCCTGAACCGGGCGGACTTAATGCAGAG
 ACAAGGCCAGTATGACCCACCTCCAGGAGCCAGCAACATTTTGGGACTTGAGGCATCTGGACATGTGGCA
 GAGCTGGGGCCTGGCTGCCAGGGACACTGGAAGATCGGGACACAGCCATGGCTCTGCTCCCGGTGGGG
 GCCAGGCTCAGTACGTCACTGTCCCGAAGGGCTCCTCATGCCTATCCAGAGGGATTGACCTGACCCA
 GGCTGCAGCCATCCAGAGGCCTGGCTCACCGCCTCCAGCTGTTACATCTTGTGGGAAATGTTCAAGGCT
 GGAGACTATGTGCTAATCCATGCAGGACTGAGTGGTGTGGGCACAGCTGTATCCAACCTACCCGGATGG
 CTGGAGCTATTCTCTGGTCACAGCTGGCTCCAGAAGAAGCTTCAAATGGCAGAAAAGCTTGGAGCAGC
 TGCTGGATTCAATTACAAAAAGAGGATTTCTCTGAAGCAACGCTGAAATTCACCAAAGGTGCTGGAGTT
 AATCTTATTCTAGACTGCATAGGCGGATCCTACTGGGAGAAGAAGCTCAACTGCCTGGCTCTTGATGGTC
 GATGGGTTCTCTATGGTCTGATGGGAGGAGGTGACATCAATGGGCCCTGTTTTCAAAGCTACTTTTTAA
 GCGAGGAAGTCTGATCACCAGTTTGTGAGGTCTAGGGACAATAAGTACAAGCAAATGCTGGTGAATGCT
 TTCACGGAGCAAATCTGCCTCACTTCTCCAGGAGGGCCCCAACGCTGCTGCCGGTTCTGGACAGAA
 TCTACCCAGTGACCGAAATCCAGGAGGCCATAAGTACATGGAGGCCAACAAGAACATAGGCAAGATCGT
 CCTGGAAGTGCCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC224067 protein sequence
 Red=Cloning site Green=Tags(s)

MLAVHFDKPGGPENLYVKEVAKPSPGEGEVLLKVAASALNRADLMQRQGGYDPPPGASNILGLEASGHVA
 ELGPGCQGHWKIGDTAMALLPGGGQAQYVTVPEGLLMPPIEGLTLTQAAAIPEAWLTAFLHLVGNVQA
 GDYVLIHAGLSGVGTAAIQLTRMAGAIPLVTAGSQKKLQMAEKLGAAGFNYKKEDFSEATLKFTKGAGV
 NLILDICIGGSYWEKNVNCLALDGRWVLYGLMGGDINGPLFSKLLFKRGLITSLLRSRDNKYQMLVNA
 FTEQILPHFSTEGPQRLLPVLDRIYPVTEIQEAHKYMEANKNIGKIVLELPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6384_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_147184

ORF Size: 996 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_147184.3](#), [NP_671713.1](#)

RefSeq Size: 1643 bp

RefSeq ORF: 999 bp

Locus ID: 9540

UniProt ID: [Q53FA7](#)

Cytogenetics: 2p23.3

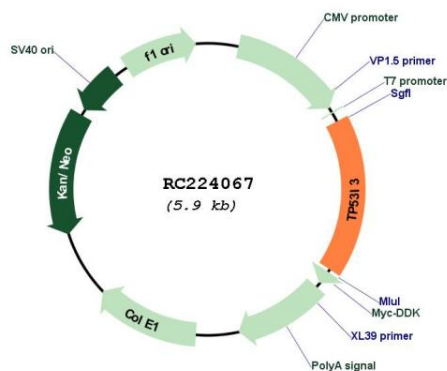
Protein Families: Druggable Genome

Protein Pathways: p53 signaling pathway

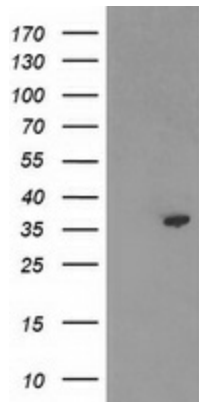
MW: 35.5 kDa

Gene Summary: The protein encoded by this gene is similar to oxidoreductases, which are enzymes involved in cellular responses to oxidative stresses and irradiation. This gene is induced by the tumor suppressor p53 and is thought to be involved in p53-mediated cell death. It contains a p53 consensus binding site in its promoter region and a downstream pentanucleotide microsatellite sequence. P53 has been shown to transcriptionally activate this gene by interacting with the downstream pentanucleotide microsatellite sequence. The microsatellite is polymorphic, with a varying number of pentanucleotide repeats directly correlated with the extent of transcriptional activation by p53. It has been suggested that the microsatellite polymorphism may be associated with differential susceptibility to cancer. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]

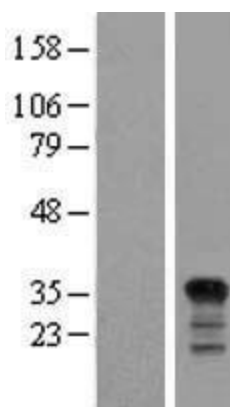
Product images:



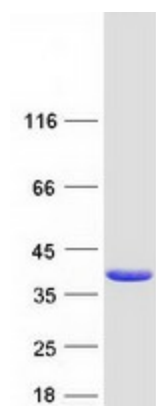
Circular map for RC224067



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TP53I3 (Cat# RC224067, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TP53I3 (Cat# [TA503656]). Positive lysates [LY407779] (100ug) and [LC407779] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY407779]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224067 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TP53I3 protein (Cat# [TP324067]). The protein was produced from HEK293T cells transfected with TP53I3 cDNA clone (Cat# RC224067) using MegaTran 2.0 (Cat# [TT210002]).