

Product datasheet for **RG224067**

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:	TurboGFP
Symbol:	PIG3
Synonyms:	PIG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224067 representing NM_147184 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTAGCCGTGCACTTTGACAAGCCGGGAGGACCGGAAAACCTCTACGTGAAGGAGGTGGCCAAGCCGA
 GCCCGGGGAGGGTGAAGTCCTCCTGAAGGTGGCGGCCAGCGCCCTGAACCGGGCGGACTTAATGCAGAG
 ACAAGGCCAGTATGACCCACCTCCAGGAGCCAGCAACATTTTGGGACTTGAGGCATCTGGACATGTGGCA
 GAGCTGGGGCCTGGCTGCCAGGGACACTGGAAGATCGGGGACACAGCCATGGCTCTGCTCCCGGTGGGG
 GCCAGGCTCAGTACGTCACTGTCCCGAAGGGCTCCTCATGCCTATCCAGAGGGATTGACCTGACCCA
 GGCTGCAGCCATCCAGAGGCCTGGCTCACCGCCTCCAGCTGTTACATCTTGTGGGAAATGTTCAAGGCT
 GGAGACTATGTGCTAATCCATGCAGGACTGAGTGGTGTGGGCACAGCTGTATCCAACCTACCCGGATGG
 CTGGAGCTATTCTCTGGTCACAGCTGGCTCCAGAGAAGCTTCAAATGGCAGAAAAGCTTGGAGCAGC
 TGCTGGATTCAATTACAAAAAGAGGATTTCTCTGAAGCAACGCTGAAATTCACCAAAGGTGCTGGAGTT
 AATCTTATTCTAGACTGCATAGGCGGATCCTACTGGGAGAAGAACGTCAACTGCCTGGCTCTTGATGGTC
 GATGGGTTCTCTATGGTCTGATGGGAGGAGGTGACATCAATGGGCCCTGTTTTCAAAGCTACTTTTTAA
 GCGAGGAAGTCTGATCACCAGTTTGCTGAGGTCTAGGGACAATAAGTACAAGCAAATGCTGGTGAATGCT
 TTCACGGAGCAAATTCGCCTCACTTCTCCAGGAGGGCCCCAACGTCGCTGCCGGTTCTGGACAGAA
 TCTACCCAGTGACCGAAATCCAGGAGGCCATAAGTACATGGAGGCCAACAAGAACATAGGCAAGATCGT
 CCTGGAAGTCCCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG224067 representing NM_147184
 Red=Cloning site Green=Tags(s)

MLAVHFDKPGGPENLYVKEVAKPSPGEGEVLLKVAASALNRADLMQRQGQYDPPPGASNILGLEASGHVA
 ELGPGCQGHWKIGDTAMALLPGGGQAQYVTVPEGLLMPICEGLTLTQAAAIPEAWLTAFLHLVGNVQA
 GDYVLIHAGLSVGTAATQLTRMAGAIPLVTAGSQKKLQMAEKLGAAGFNYKKEDFSEATLKFTKGAGV
 NLILDICIGGSYWEKNVNCALDGRWVLYGLMGGDINGPLFSKLLFKRSLITSLLRSRDNKYKQMLVNA
 FTEQILPHFSTEGPQRLLPVLDRIYPVTEIQEAHKYMEANKNIGKIVLELPQ

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_147184

ORF Size: 996 bp

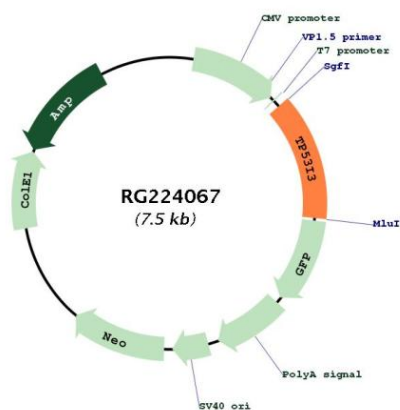
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none"> 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:	<u>NM_147184.3, NP_671713.1</u>
RefSeq Size:	1235 bp
RefSeq ORF:	999 bp
Locus ID:	9540
UniProt ID:	<u>Q53FA7</u>
Cytogenetics:	2p23.3
Protein Families:	Druggable Genome
Protein Pathways:	p53 signaling pathway
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG224067