

Product datasheet for SC110067

PIG3 (TP53I3) (NM_004881) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIG3 (TP53I3) (NM_004881) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIG3
Synonyms:	PIG3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110067 sequence for NM_004881 edited (data generated by NextGen Sequencing)

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ATGTTAGCCGTGCACTTTGACAAGCCGGGAGGACCGGAAAACCTCTACGTGAAGGAGGTG
GCCAAGCCGAGCCCGGGGAGGGTGAAGTCCTCCTGAAGGTGGCGCCAGCGCCCTGAAC
CGGGCGGACTTAATGCAGAGACAAGGCCAGTATGACCCACCTCCAGGAGCCAGCAACATT
TTGGGACTTGAGGCATCTGGACATGTGGCAGAGCTGGGGCCTGGCTGCCAGGGACACTGG
AAGATCGGGGACACAGCCATGGCTCTGCTCCCCGGTGGGGGCCAGGCTCAGTACGTCACT
GTCCCCGAAGGGCTCCTCATGCCTATCCCAGAGGGATTGACCCTGACCCAGGCTGCAGCC
ATCCCAGAGGCCCTGGCTCACCGCCTTCCAGCTGTTACATCTTGTGGGAAATGTTCAAGCT
GGAGACTATGTGCTAATCCATGCAGGACTGAGTGGTGTGGGCACAGCTGCTATCCAACTC
ACCCGGATGGCTGGAGCTATTCCTCTGGTCACAGCTGGCTCCCAGAAGAAGCTTCAAATG
GCAGAAAAGCTTGAGAGCAGCTGCTGGATTCAATTACAAAAAGAGGATTTCTCTGAAGCA
ACGCTGAAATTCACCAAAGGTGCTGGAGTTAATCTTATTCTAGACTGCATAGGCGGATCC
TACTGGGAGAAGAACGTCAACTGCCTGGCTCTTGATGGTCGATGGGTTCTCTATGGTCTG
ATGGGAGGAGGTGACATCAATGGGCCCTGTTTTCAAAGCTACTTTTTAAGCGAGGAAAGT
CTGATCACCAGTTTGCTGAGGTCTAGGGACAATAAGTACAAGCAAATGCTGGTGAATGCT
TTCACGGAGCAAATCTGCCTCACTTCTCCACGGAGGGCCCCAACGCTGCTGCCGGTT
CTGGACAGAATCTACCCAGTGACCGAAATCCAGGAGGCCCATAAAGTACATGGAGGCCAAC
AGAACATAGGCAAGATCGTCTGGAAGTGCCTCCAGTGA

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Clone variation with respect to NM_004881.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004881 unedited</p> <pre>NNNNGGCCAANNNTTCTTTCTTTNNNNNNGGTCGGGATTTGTAATACGACTTTTATAGG GCGGCCCGCAATTTCGCACGAGGGNAGCAGAGGCTTTCCTGGGGCTCTGGGGCTCGGGCTT TGTCACCGGGACCCGACGAGCCAGAACCCTCGGCGCCGCTGGTGCATGGGAGGGGAG CCGGGCCAGGAGTAAGTAACTCATACGGGCGCCGGGACCCGGGTCGGGCTGGGGCTTC CAACTCAGAGGGAGTGTGATTTGCCTGATCCTCTTCGGCGTTGCCTGCTCTGCCGCATC CAGCCCTGTACCGCCATCCCACCTCCCGCGTCCCACCTGTGTTCGGGTGGGATCGGT CTGGAGGCGGCCGAGGACTTCCCAGGCAGGAGCTCGGGGCGGAGCCGGTCCGCGGCAG ACCAGGGCAGCGAGGCGCTGGCCGGCAGGGGGCGCTGCGGTGCCAGCCTGAGGCTGGGCT GCTCCGCGAGGATACAGCGGCCCTGCCCTGTCCTGTCCTGCCCTGCCCTGTCCTGTCCT GCCCTGCCCTGCCCTGTCCTGTCCTGCCCTGCCCTGCCCTGTGTCCTCAGACAATATGTT AGCCGTGCACTTTGACNAAGCCGGAGGGACCGAAACCTCTACGTGAAGGAGGTGGCCAA GCCGAGCCCGNGGAGGGGTGAAGTCTTCTGAAGGTGGCGGCCAGCGCCCTGAACCGGG CGGACTTAATGCAGAGACANGGCCAGTATGACCCACCTTNCAGAGCCAGNCACATTTNTG GACTTTGAGCATCTGGACATNGTGCAGAAGCTGGGGCCTGGCTGCCAGGNACACTGGAAG ATCGGNGACACAGCCATGGCTCTGCTCCCGNTGGGGGCCAGGCTCAGTACGTNACTGTC CCCCGAAGGGCTCCTCATGCCTATCCCAGAAGGATTGACCTGACCCAGCTGCAGCCA TCCNAGAGGCCTGGCTCACCGNCTTNCAGCTGNTCATCTT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004881 unedited</p> <pre>CCTTTTTCTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCGTTCAC TTTATTTCCCATATCACCTTAAACGGCTTTGGAGGAAGCCCCGGTTCCTTGGCCTGT CTATTGGGAATCTCCCCAGTTTGTCTGGAAGGCCTGGGTGGCCCCGTCTTTTTT GCCCATCTCTTAAGGGGGCGGGCCGGGACGATCTGCCTATGTTCTTGGGGGCT CCATGTACTTATGGGCCCTGGATTCGGCCCCGGGTAAATTCTGGCCAAAACCGGCA GCAAACGTTGGGGCCCTCCGTGAAAAATGAGGCAAAATTTGCTCCGGGAAAGCATTCA CCACCATTTGCTTGTCTTATTGGCCCTAGACCTCAGCAAACCTGGGGATCAAACCTCCTC GCTTAAAAAGTAGCTTTGAAAACAGGGGCCATTGATGTCACCTCCTCCCATCAAACCAT AGAGAACCCTTCGACCATCAAGAGCCAGGCAGTTGACGTTCTTCCCAGTAGGATCCGC CTATGCAGTCTAAAATAAAATTAACCTCCCGCCCTTTGGGAATTCAGCGTTGCTTCAA AGAAATCCTCTTTTTTTGTAATTGAATCCAGCAGCTGCTCCAAGCTTTTCTGCCATTTGAA GCTTCTTCTGGGAGCCACTTGGGACCAGAGGAAATCCCCCACCATCCGGGTGAATTGG ATAACAACTGTGCCCCCACTCAATCCTGGAGGGTAAAAACAAAGTCTCCAGCCTGGAC ATTTCCCAAAGATTTAACAACCTGGGAGGCGGGAAACCAGCCTCTTGGGATGGCTGCACC TCTGGTCAAGGCCAATCCTTGGGATAGCATGGAGGAGCCCTTTCGGGACATGACATTA CTGACTGGNCCANCACGGGGACAGAACCTGGTTGGTCCCCGATCTTCATGT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004881
Insert Size:	1750 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.

RefSeq: [NM_004881.2](#), [NP_004872.2](#)

RefSeq Size: 1675 bp

RefSeq ORF: 999 bp

Locus ID: 9540

UniProt ID: [Q53FA7](#)

Cytogenetics: 2p23.3

Domains: ADH_zinc_N

Protein Families: Druggable Genome

Protein Pathways: p53 signaling pathway

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]

Transcript Variant: This variant (1) and variant 2 encode the same isoform (1).