OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC201839

PIG3 (TP53I3) (NM_004881) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIG3 (TP53I3) (NM_004881) 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:

>RC201839 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTAGCCGTGCACTTTGACAAGCCGGGAGGACCGGAAAACCTCTACGTGAAGGAGGTGGCCAAGCCGA
GCCCGGGGGAGGGTGAAGTCCTCCTGAAGGTGGCGGCCAGCGCCCTGAACCGGGCGGACTTAATGCAGAG
ACAAGGCCAGTATGACCCACCTCCAGGAGCCAGCAACATTTTGGGACTTGAGGCATCTGGACATGTGGCA
GAGCTGGGGCCTGGCTGCCAGGGACACTGGAAGATCGGGGACACAGCCATGGCTCTGCTCCCCGGTGGGG
GCCAGGCTCAGTACGTCACTGTCCCCGAAGGGCTCCTCATGCCTATCCCAGAGGGATTGACCCTGACCCA
GGCTGCAGCCATCCCAGAGGCCTGGCTCACCGCCTTCCAGCTGTTACATCTTGTGGGAAATGTTCAGGCT
GGAGACTATGTGCTAATCCATGCAGGACTGAGTGGTGTGGGCACAGCTGCTATCCAACTCACCCGGATGG
CTGGAGCTATTCCTCTGGTCACAGCTGGCTCCCAGAAGAAGCTTCAAATGGCAGAAAAGCTTGGAGCAGC
TGCTGGATTCAATTACAAAAAAGAGGATTTCTCTGAAGCAACGCTGAAATTCACCAAAGGTGCTGGAGTT
AATCTTATTCTAGACTGCATAGGCGGATCCTACTGGGAGAAGAACGTCAACTGCCTGGCTCTTGATGGTC
GATGGGTTCTCTATGGTCTGATGGGAGGAGGTGACATCAATGGGCCCCTGTTTTCAAAGCTACTTTTTAA
GCGAGGAAGTCTGATCACCAGTTTGCTGAGGTCTAGGGACAATAAGTACAAGCAAATGCTGGTGAATGCT
TTCACGGAGCAAATTCTGCCTCACTTCTCCACGGAGGGCCCCCAACGTCTGCTGCCGGTTCTGGACAGAA
TCTACCCAGTGACCGAAATCCAGGAGGCCCATAAGTACATGGAGGCCAACAAGAACATAGGCAAGATCGT
CCTGGAACTGCCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC201839 protein sequence
Red=Cloning site Green=Tags(s)

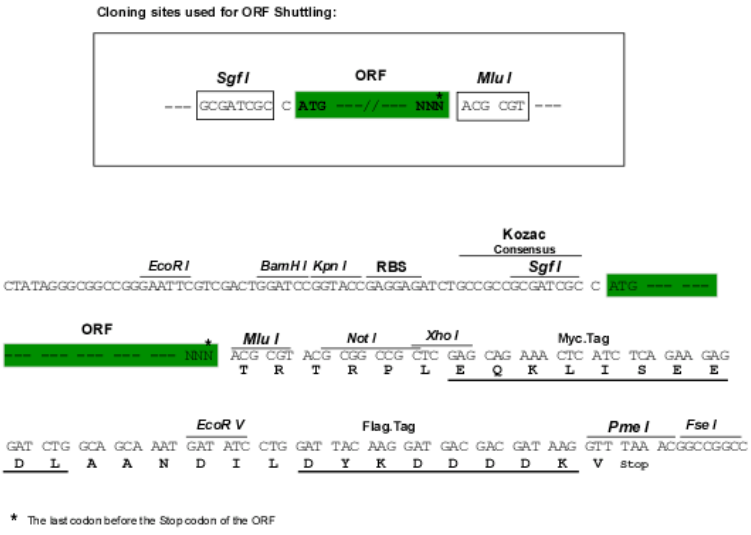
MLAVHFDKPGGPENLYVKEVAKPSPGEGEVLLKVAASALNRADLMQRQGQYDPPPGASNILGLEASGHVA
ELGPGCQGHWKIGDTAMALLPGGGQAQYVTVPEGLLMPIPEGLTLTQAAAIPEAWLTAFQLLHLVGNVQA
GDYVLIHAGLSGVGTAAIQLTRMAGAIPLVTAGSQKKLQMAEKLGAAAGFNYKKEDFSEATLKFTKGAGV
NLILDCIGGSYWEKNVNCLALDGRWVLYGLMGGGDINGPLFSKLLFKRGSLITSLLRSRDNKYKQMLVNA
FTEQILPHFSTEGPQRLLPVLDRIYPVTEIQEAHKYMEANKNIGKIVLELPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004881

ORF Size: 996 bp

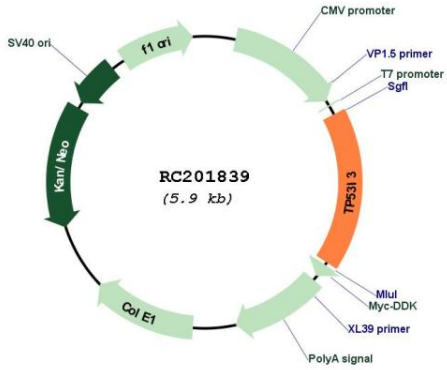
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

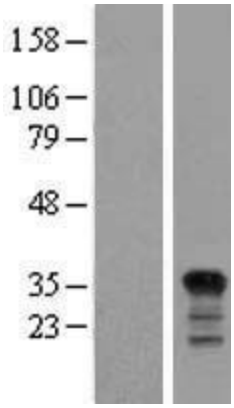
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
RefSeq:	NM_004881.5
RefSeq Size:	2042 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
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]

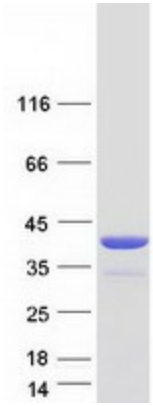
Product images:



Circular map for RC201839



Western blot validation of overexpression lysate (Cat# [LY407779]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected 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# [TP301839]). The protein was produced from HEK293T cells transfected with TP53I3 cDNA clone (Cat# RC201839) using MegaTran 2.0 (Cat# [TT210002]).