

Product datasheet for **SC336201**

PTGS1 (NM_001271367) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTGS1 (NM_001271367) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTGS1
Synonyms:	COX1; COX3; PCOX1; PES-1; PGG/HS; PGHS-1; PGHS1; PHS1; PTGHS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336201 representing NM_001271367. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTCATGCGCCTGGTACTCACAGTGCCTCCAACCTTATCCCCAGTCCCCCACCTACAACCTCAGCA
CATGACTACATCAGCTGGGAGTCTTTCTCCAACGTGAGCTATTACTCGTATTCTGCCCTCTGTGCCT
AAAGATTGCCCCACCCCATGGGAACCAAGGGAAGAAGCAGTTGCCAGATGCCAGCTCCTGGCCCGC
CGCTTCTGCTCAGGAGGAAGTTCATACCTGACCCCAAGGCACCAACCTCATGTTTGCCTTCTTTGCA
CAACACTTCAACCACAGTTCTTCAAACTTCTGGCAAGATGGGTCTGGCTTACCAAGGCCTTGGGC
CATGGGTAGACCTCGGCCACATTTATGGAGACAATCTGGAGCGTCAGTATCAACTGCGGCTCTTTAAG
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GCCACTGAAGAAGCTGGTCTGCCTCAACACCAAGACCTGTCCCTACGTTTCTTCCGTGTGCCGAT
GCCAGTCAGGATGATGGGCTGCTGTGGAGCGACCATCCACAGAGCTTGA
ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001271367
Insert Size:	1362 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:	<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.
RefSeq:	NM_001271367.1
RefSeq Size:	4905 bp
RefSeq ORF:	1362 bp
Locus ID:	5742
Cytogenetics:	9q33.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways
MW:	51.9 kDa
Gene Summary:	<p>This is one of two genes encoding similar enzymes that catalyze the conversion of arachinodate to prostaglandin. The encoded protein regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. Based on its ability to function as both a cyclooxygenase and as a peroxidase, the encoded protein has been identified as a moonlighting protein. The protein may promote cell proliferation during tumor progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]</p> <p>Transcript Variant: This variant (6) uses two alternate splice sites at internal exons, compared to variant 1. These differences result in initiation of translation at an alternate downstream in-frame start site, compared to variant 1. The primary ORF can be translated due to a combination of reinitiation and leaky scanning. The encoded isoform (5) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>