

## Product datasheet for SC333039

### PTGS1 (NM\_001271166) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PTGS1 (NM\_001271166) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PTGS1  
**Synonyms:** COX1; COX3; PCOX1; PES-1; PGG/HS; PGHS-1; PGHS1; PHS1; PTGHS  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC333039 representing NM\_001271166.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCTCATGCGCCTGGTACTCACAGTGCCTCCAACCTTATCCCCAGTCCCCCACCTACAACCTCAGCA
CATGACTACATCAGCTGGGAGTCTTTCTCCAACGTGAGCTATTACACTCGTATTCTGCCCTCTGTGCCT
AAAGATTGCCCCACACCCATGGGAACCAAGGGAAGAAGCAGTTGCCAGATGCCAGCTCCTGGCCCGC
CGCTTCTGCTCAGGAGGAAGTTCATACCTGACCCCAAGGCACCAACCTCATGTTTGCCTTCTTTGCA
CAACACTTCACCCACCAGTTCCTCAAAACTTCTGGCAAGATGGGTCTGGCTTACCAAGGCCTTGGGC
CATGGGTAGACCTCGGCCACATTTATGGAGACAATCTGGAGCGTCAGTATCAACTGCGGCTCTTTAAG
GATGGGAAACTCAAGTACCAGGTGCTGGATGGAGAAATGTACCCGCCCTCGGTAGAAGAGGCGCCTGTG
TTGATGCACTACCCCGAGGCATCCCGCCAGAGCCAGATGGCTGTGGGCCAGGAGGTGTTTGGGCTG
CTTCTGGGCTCATGCTGTATGCCACGCTCTGGCTACGTGAGCACAACCGTGTGTGTGACCTGCTGAAG
GCTGAGCACCCACCTGGGGCGATGAGCAGCTTTCCAGACGACCCGCCCTCATCCTCATAGGGGAGACC
ATCAAGATTGTCATCGAGGAGTACGTGCAGCAGCTGAGTGGCTATTTCTGCAGCTGAAATTTGACCCA
GAGCTGCTGTTTCGGTGTCCAGTTCCAATACCGCAACCGCATTGCCATGGAGTTCAACCATCTCTACCAC
TGGCACCCCTCATGCCTGACTCCTTCAAGATCGGTGGGGCAGGAACATGGACCACCACATCCTGCAT
GTGGCTGTGGATGTCATCAGGGAGTCTCGGGAGATGCGGCTGCAGCCCTTCAATGAGTACCGCAAGAGG
TTTGGCATGAAACCTACACCTCCTCCAGGAGCTCGTAGGAGAGAAGGAGATGGCAGCAGAGTTGGAG
GAATTGTATGGAGACATTGATGCGTTGGAGTCTACCCTGGACTGCTTCTTGAAGTGCATCCAAAC
TCTATCTTTGGGAGAGTATGATAGAGATTGGGCTCCCTTTTCCCTCAAGGGTCTCCTAGGGAATCCC
ATCTGTTCTCCGGAGTACTGGAAGCCGAGCACATTTGGCGGCGAGGTGGGCTTTAACATTGTCAAGACG
GCCACACTGAAGAAGCTGGTCTGCCTCAACACCAAGACCTGTCCCTACGTTTCTTCCGTGTGCCGGAT
GCCAGTCAGGATGATGGGCTGCTGTGGAGCGACCATCCACAGAGCTTGA
  
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001271166  
**Insert Size:** 1362 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001271166.1</a>
<b>RefSeq Size:</b>	5160 bp
<b>RefSeq ORF:</b>	1362 bp
<b>Locus ID:</b>	5742
<b>UniProt ID:</b>	<a href="#">P23219</a>
<b>Cytogenetics:</b>	9q33.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Arachidonic acid metabolism, Metabolic pathways
<b>MW:</b>	51.9 kDa
<b>Gene Summary:</b>	<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 (5) differs in the 5' UTR and contains multiple differences in the coding region, compared to variant 1. These differences result in initiation of translation at an alternate downstream in-frame start site, compared to variant 1. 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>