

Product datasheet for **SC309550**

PTGS1 (NM_080591) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTGS1 (NM_080591) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTGS1
Synonyms:	COX1; COX3; PCOX1; PES-1; PGG/HS; PGHS-1; PGHS1; PHS1; PTGHS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_080591 edited
 ATGAGCCGGAGTCTTTGCTCCGGTTCTTGTCTGTTCTGCTCCTGCTCCTGCTCCCGCCGCTCCCC
 GTCCTGCTCGCGGACCCAGGGGCGCCACGCCAGTGAATCCCTGTTGTTACTATCCATGC
 CAGCACCAGGGCATCTGTGTCCGCTTCGGCCTTGACCGCTACCAGTGTGACTGCACCCGC
 ACGGGCTATTCGGCCCCAACTGCACCATCCCTGGCCTGTGGACCTGGCTCCGGAATTCA
 CTGCGGGCCAGCCCTCTTTCACCCACTTCCTGCTCACTACGGGCGCTGTTCTGGGAG
 TTTGTCAATGCCACCTTCATCCGAGAGATGCTCATGCGCCTGGTACTCACAGTGGCCTCC
 AACCTTATCCCCAGTCCCCCACCTACAACCTCAGCACATGACTACATCAGCTGGGAGTCT
 TTCTCCAACGTGAGCTATTACACTCGTATTCTGCCCTCTGTGCCTAAAGATTGCCCCACA
 CCCATGGGAACCAAAGGGAAGAAGCAGTTGCCAGATGCCAGCTCCTGGCCCGCCGCTTC
 CTGCTCAGGAGGAAGTTCATACCTGACCCCAAGGCACCAACCTCATGTTTGCCTTCTTT
 GCACAACACTTACCCACCAGTTCTTCAAACTTCTGGCAAGATGGGTCTGGCTTACC
 AAGGCCTTGGGCCATGGGTAGACCTCGGCCACATTTATGGAGACAATCTGGAGCGTCAG
 TATCAACTGCGGCTCTTAAAGGATGGGAACTCAAGTACCAGGTGCTGGATGGAGAAATG
 TACCCGCCCTCGGTAGAAGAGGCGCCTGTGTTGATGCACTACCCCGAGGCATCCCGCC
 CAGAGCCAGATGGCTGTGGGCCAGGAGGTGTTGGGCTGCTTCTGGGCTCATGTGTAT
 GCCACGCTCTGGCTACGTGAGCAACAACCGTGTGTGTGACCTGCTGAAGGTGAGCACCCC
 ACCTGGGGCGATGAGCAGCTTTTCCAGACGACCCGCTCATCCTCATAGGGGAGACCATC
 AAGATTGTATCGAGGAGTACGTGCAGCAGCTGAGTGGCTATTTCTGCAGCTGAAATTT
 GACCCAGAGCTGCTGTTCCGGTGTCCAGTTCCAATACCGCAACCGCATTGCCATGGAGTTC
 AACCATCTTACCACTGGCACCCCTCATGCCTGACTCCTTCAAGATCGTGGGGGCGAGG
 AACATGGACCACCACATCCTGCATGTGGCTGTGGATGTATCAGGGAGTCTCGGGAGATG
 CGGCTGCAGCCCTTCAATGAGTACCGCAAGAGGTTTGGCATGAAACCCTACACCTCCTTC
 CAGGAGCTCGTAGGAGAGAAGGAGATGGCAGCAGAGTTGGAGGAATTGTATGGAGACATT
 GATGCGTTGGAGTTCTACCCTGGACTGCTTCTTAAAAGTGCCATCCAACTCTATCTTT
 GGGGAGAGTATGATAGAGATTGGGGCTCCCTTTTCCCTCAAGGGTCTCCTAGGGAATCCC
 ATCTGTTCTCCGGAGTACTGGAAGCCGAGCACATTTGGCGGCGAGGTGGGCTTTAACATT
 GTCAAGACGGCCACACTGAAGAAGCTGGTCTGCCTCAACACCAAGACCTGTCCCTACGTT
 TCCTTCCGTGTCCGGATGCCAGTCAGGATGATGGCCTGCTGTGGAGCGACCATCCACA
 GAGCTCTGA

Restriction Sites: NotI-NotI

ACCN: NM_080591

Insert Size: 5100 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_080591.1](#), [NP_542158.1](#)

RefSeq Size: 4982 bp

RefSeq ORF: 1689 bp

Locus ID: 5742

UniProt ID: [P23219](#)

Cytogenetics: 9q33.2

Domains: An_peroxidase

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

Gene Summary: 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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. The encoded isoform (2) 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.