

Product datasheet for **MC219515**

Ptgs1 (NM_008969) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptgs1 (NM_008969) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptgs1
Synonyms:	COX; Cox-; Cox-1; Cox-3; COX1; Pgh; PGHS-1; Pghs1; PHS 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219515 representing NM_008969
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGTCGAAGGAGTCTCTCGTCTGGTTCCCTGCTGCTCCTGCTGCTGCCGCCACACCCTCGG
 TCTGCTCGCAGATCCTGGGGTGCCTCACCAGTCAATCCTGTTGTTACTATCCGTGCCAGAACCAGGG
 TGTCTGTGTCCGCTTTGGCCTCGACAACCTACCAGTGTGATTGTAATCGCACGGGCTACTCAGGCCCAAC
 TGTACCATCCCTGAGATCTGGACCTGGCTTCGGAATTCTCTGCGGCCAGCCCTCGTTCACCCATTTC
 TGCTGACACATGGATACTGGCTCTGGGAATTTGTGAATGCCACCTTCATCCGAGAAGTACTCATGCGCT
 GGTACTCACAGTGCCTCAACCTTATCCCAGCCCTCCGACCTACAACCTCAGCGCATGACTACATCAGC
 TGGGAGTCTTCTCCAATGTGAGCTACTATACTCGCATTCTGCCCTGTACCCAAAGACTGCCCAACAC
 CCATGGGGACAAAGGGAAGAAACAGTTACCAGATGTTACAGTCTTGGCCCAACAGCTGCTGCTGAGAAG
 GGAGTTCACTTCTGCCCCAGGGCACCAACATCTGTTTGCCTCTTTGCACAACACTTCAACCACCAG
 TTCTTCAAGACCTCTGGAAGATGGGTCCTGGCTTACCAAGGCCTTAGGCCACGGGGTAGACCTTGGCC
 ACATTTATGGAGATAATCTGGAACGACAGTATCACCTGCGGCTCTTCAAGGATGGGAAACTTAAGTACCA
 GGTGCTGGACGGAGAGGTGTACCCACCTTCCGTGGAACAGGCGTCCGTGTTGATGCGCTACCCACCAGGT
 GTCCCGCTGAAAGGCAGATGGCTGTGGGCCAGGAGGTGTTGGGTTGCTCCGGGGCTGATGCTCTTCT
 CCACGATCTGGCTTCGTGAACATAACCGCGTGTGCGACCTGCTGAAGGAGGAGCATCCCAGTGGGATGA
 TGAGCAGCTCTTCCAGACCCTCGCCTCATCTTATAGGAGAAACCATCAAAATTGTCATTGAGGAGTAT
 GTGCAGCACTTGAGTGGCTATTTCTGCAGCTCAAGTTGACCCGGAGCTGCTGTTCCGAGCCAGTTCC
 AATATCGAAACCGCATCGCCATGGAATTTAACCATCTCTATCACTGGCATCCACTCATGCCAACTCCTT
 CCAAGTGGGCTCACAAAGAGTACAGCTACGAGCAGTTTTTATTTAACACTTCTATGCTGGTGGACTATGGG
 GTTGAGGCACTGGTGGATGCCTTCTCTGCCAGAGGGCTGGCCGATTGGTGGAGGTAGGAACTTTGACT
 ATCATGTTCTGCATGTGGCTGTGGATGTCATCAAGGAGTCCCGAGAGATGCGCCTACAGCCCTTCAATGA
 ATACCGAAAGAGGTTTGGCTTGAAGCCTTACACCTCTTCCAGGAGCTCACAGGAGAGAAGGAGATGGCT
 GCTGAGTTGGAGGAGCTGTACGGTGACATCGATGCTTTAGAGTTCTACCCGGGGTTGCTGCTGGAGAAGT
 GCCAGCCCACTCCATCTTTGGAGAAAGTATGATAGAGATGGGGGCTCCCTTTCCCTCAAGGGCCTCCT
 AGGGAATCCCATCTGTTCCCGAGACTGGAACCCAGCACGTTCCGGTGGTACGTTGGGCTTCAACCTT
 GTC AACACAGCCTCACTGAAGAACTGGTCTGCCTCAACACCAAGACCTGCCCTATGTTTCCTTCCGTG
 TGCCAGATTACCTGGAGATGACGGTCTGTCTTAGTGAGACGCTCCACTGAGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2034_e10.zip
Restriction Sites: Sgfl-Mlul
ACCN: NM_008969
Insert Size: 1809 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_008969.3](#), [NP_032995.1](#)

RefSeq Size: 2881 bp

RefSeq ORF: 1809 bp

Locus ID: 19224

UniProt ID: [P22437](#)

Cytogenetics: 2 24.19 cM

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. [provided by RefSeq, Jan 2014]