

## Product datasheet for **MC219616**

### **Ptgs2 (NM\_011198) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptgs2 (NM_011198) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptgs2
Synonyms:	COX; Cox-; Cox-2; COX2; gripghs; PES-2; Pgh; PGHS; PGHS-2; Pghs2; PHS; PHS-2; PHS II; Tis; TIS10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC219616 representing NM\_011198  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTCTTCCGAGCTGTGCTGCTCTGCGCTGCCCTGGGGCTCAGCCAGGCAGCAAATCCTTGCTGTCCA  
ATCCATGTCAAAACCGTGGGGAATGTATGAGCACAGGATTTGACCAGTATAAGTGTGACTGTACCCGGAC  
TGGATTCTATGGTGAAAACGTACTACACTGAATTTCTGACAAGAATCAAATTAAGTGTGACTGTACCCGGAC  
CCAAACACAGTGCCTACCTGACCCACTTCAAGGGAGTCTGGAACATTGTGAACAACATCCCCTTCC  
TGCGAAGTTAATCATGAAATATGTGCTGACATCCAGATCATATTTGATTGACAGTCCACCTACTTACAA  
TGTGCACTATGGTTACAAAAGCTGGGAAGCCTTCCAACCTCTCCTACTACACCAGGGCCCTTCTCC  
GTAGCAGATGACTGCCAACTCCATGGGTGTGAAGGGAATAAGGAGCTTCTGATTCAAAGAAGTGC  
TGGAAAAGTTCTTCTACGGAGAGATTCACTCCCTGACCCCAAGGCTCAAATATGATGTTTGCATTCTT  
TGCCGAGCACTTACCCATCAGTTTTTCAAGACAGATCATAAGCGAGGACCTGGGTTACCCGAGGACTG  
GGCCATGGAGTGGACTTAAATCACATTTATGGTAAAACCTCTGGACAGACAACATAAACTGCGCCTTTTCA  
AGGATGGAATAATGAAATATCAGGTCATTGGTGGAGAGGTGTATCCCCACAGTCAAAGACACTCAGGT  
AGAGATGATCTACCCTCCTCACATCCCTGAGAACCTGCAGTTTGTGTGGGGCAGGAAGTCTTGGTCTG  
GTGCTGGTCTGATGATGTATGCCACCATCTGGCTTCGGGAGCACAACAGAGTGTGCGACATACTCAAGC  
AGGAGCATCCTGAGTGGGGTGTAGCAACTATCCAAACCAGCAGACTCATACTCATAGGAGAGACTAT  
CAAGATAGTATCGAAGACTACGTGCAACACCTGAGCGGTTACCACTTCAAACCTCAAGTTGACCCAGAG  
CTCCTTTTCAACCAGCAGTTCAGTATCAGAACCAGTTCGCTCTGAATCAACACACTATCACTGGC  
ACCCCTGCTGCCGACACCTTCAACATTGAAGACCAGGAGTACAGCTTCAAACAGTTTCTTACAACAA  
CTCCATCCTCCTGGAACATGGACTCACTCAGTTTGTGAGTCATTACCAGACAGATTGCTGGCCGGGTT  
GCTGGGGGAAGAAATGTCCAATTGCTGTACAAGCAGTGGCAAAGGCCTCCATTGACCAGAGCAGAGAGA  
TGAAATACCAGTCTCTCAATGAGTACCGCAAACGCTTCTCCCTGAAGCCGTACACATCATTTGAAGAACT  
TACAGGAGAGAAGGAAATGGCTGCAGAATTGAAAGCCCTTACAGTGCATCGATGTCATGGAACGTGAC  
CCTGCCCTGCTGGTGGAAAAACCTCGTCCAGATGCTATCTTTGGGGAGACCATGGTAGAGCTTGGAGCAC  
CATTCTCCTTGAAGGACTTATGGGAAATCCCATCTGTTCTCCTCAATACTGGAAGCCGAGCACCTTTGG  
AGGCGAAGTGGGTTTTAAGATCATCAATACTGCCTCAATTCAGTCTCTCATCTGCAATAATGTGAAGGGG  
TGTCCTTCACTTCTTCAATGTGAAGATCCACAGCCTACAAAACAGCCACCATCAATGCAAGTGCCT  
CCCACTCCAGACTAGATGACATTAACCCCTACAGTACTAATCAAAGGCGTTCAACTGAGCTGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja2030\\_g04.zip](https://cdn.origene.com/chromatograms/ja2030_g04.zip)

Restriction Sites: SgfI-MluI

ACCN: NM\_011198

Insert Size: 1815 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](mailto: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\\_011198.3](#), [NP\\_035328.2](#)

**RefSeq Size:** 4150 bp

**RefSeq ORF:** 1815 bp

**Locus ID:** 19225

**UniProt ID:** [Q05769](#)

**Cytogenetics:** 1 63.84 cM

**Gene Summary:** This gene encodes an enzyme that is a member of the prostaglandin G/H synthase family. The encoded protein converts arachidonic acid to prostaglandin endoperoxide H<sub>2</sub> which is a key enzymatic step in prostaglandin biosynthesis. This gene is the inducible prostaglandin G/H synthase family member that is upregulated during inflammation. Aberrant regulation of this gene is associated with cancer progression in several tissues and an increased risk of cardiovascular events. This gene is the target of many non-steroidal anti-inflammatory drugs. [provided by RefSeq, Sep 2015]