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# Product datasheet for RN200711

## Ptgs1 (NM_017043) Rat Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Ptgs1 (NM_017043) Rat Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Ptgs1 |
| **Synonyms:** | Cox-1; Cox-3; Cox1; Cox3; Pghs-1 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |

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**Fully Sequenced ORF:**

>RN200711 representing NM_017043
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTCGAAGGAGTCTCTCGCTCCAGTTTCCCCTGCTGCTGCTCCTGCTGCTGCTCCCACCACCCCCGG
TACTGCTCACAGATGCTGGGGTACCCTCACCAGTCAATCCCTGTTGTTACTATCCATGCCAGAACCAGGG
TGTCTGTGTCCGCTTCGGCCTCGACCACTACCAATGTGACTGTACTCGCACGGGCTACTCGGGCCCCAAC
TGTACTATCCCTGAGATCTGGACCTGGCTTCGGAGTTCCCTGCGGCCCAGCCCCTCATTCACCCATTTCC
TGCTGACACACGGGTACTGGATCTGGGAGTTTGTGAATGCCACCTTCATCCGAGAAGTACTCATGCGCCT
GGTACTCACGGTGCGGTCCAACCTTATCCCCAGCCCTCCAACCTACAACACAGCACATGACTACATCAGC
TGGGAGTCCTTCTCCAACGTGAGCTACTATACTCGCATTCTGCCCTCTGTACCCAAAGACTGTCCCACAC
CCATGGGAACCAAAGGGAAGAAGCAGTTACCAGATATTCATCTTCTGGCCCAACGATTGCTGCTGAGAAG
GGAGTTCATTCCCGCCCCGCAGGGGACCAACGTCTTGTTTGCTTTCTTTGCACAACACTTCACCCACCAG
TTCTTCAAGACCTCTGGAAAGATGGGTCCTGGCTTTACCAAGGCCTTAGGCCATGGGGTAGACCTTGGCC
ACATTTATGGAGATAGTCTGGAACGACAGTACCACCTGCGGCTCTTCAAGGATGGGAAACTTAAGTACCA
GGTGCTGGATGGAGAGGTGTACCCACCTTCCGTAGAACAGGCGTCCGTGTTGATGCGCTACCCACCAGGT
GTCCCGCCCGAAAAGCAGATGGCTGTGGGCCAGGAGGTGTTTGGGTTGCTCCCGGGTCTGATGCTCTTCT
CCACGATCTGGCTGCGCGAGCATAACCGTGTGTGTGACTTGCTGAAGGAGGAGCATCCTACATGGGATGA
CGAGCAGCTCTTCCAGACCACTCGCCTCATCCTTATAGGGGAAACCATCAAGATTATCATCGAGGAGTAC
GTACAGCACTTGAGTGGCTATTTCCTGCAGCTCAAGTTTGACCCGGAGCTGCTGTTCCGAGCCCAGTTCC
AGTATCGCAACCGCATCGCCTTGGAATTCAACCACCTCTATCACTGGCATCCGCTCATGCCTGATTCCTT
CCAAGTGGGCTCACAAGAGTACAGCTATGAGCAGTTTTTATTTAACACATCTATGCTGGTGGACTACGGT
GTCGAGGCACTGGTGGATGCCTTCTCTCGCCAGAGGGCTGGCCGGATTGGTGGGGGTAGGAACTTTGACT
ACCATGTTCTGCATGTGGCCGAGGATGTCATCAAGGAGTCCCGAGAAATGCGCCTGCAGTCCTTCAATGA
ATACCGAAAGAGGTTTGGCCTGAAGCCTTACACTTCTTTCCAGGAGTTCACAGGAGAGAAGGAGATGGCC
GCTGAGTTGGAGGAGCTATATGGTGACATCGATGCTTTAGAGTTCTACCCGGGGCTGATGCTGGAGAAGT
GCCAGCCCAACTCCCTCTTTGGGGAGAGCATGATAGAGATGGGGGCTCCTTTCTCCCTCAAGGGCCTCCT
AGGGAATCCCATCTGTTCCCCAGAGTACTGGAAACCCAGCACATTCGGTGGTGATGTGGGTTTCAACATC
GTTAACACAGCCTCACTGAAGAAACTGGTCTGCCTCAACACCAAGACCTGCCCCTATGTCTCCTTCCGTG
TGCCAGATTACCCTGGAGATGACGGGTCTGTCTTCGTGAGACCTTCCACTGAGCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_017043

**Insert Size:** 1809 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).

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|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_017043.4, NP_058739.4 |
| **RefSeq Size:** | 2811 bp |
| **RefSeq ORF:** | 1809 bp |
| **Locus ID:** | 24693 |
| **Cytogenetics:** | 3p11 |
| **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] |