

Product datasheet for **MG209322**

Ptgs1 (NM_008969) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptgs1 (NM_008969) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ptgs1
Synonyms:	COX; Cox-; Cox-1; Cox-3; COX1; Pgh; PGHS-1; Pghs1; PHS 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG209322 representing NM_008969
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGTCGAAGGAGTCTCTCGTCTGGTTCCCTGCTGCTGCTCCTGCTGCTGCCGCCACACCCTCGG
 TCCTGCTCGCAGATCCTGGGGTGCCTCACCAGTCAATCCCTGTTGTTACTATCCGTGCCAGAACCAGGG
 TGTCTGTGTCCGCTTTGGCCTCGACAACCTACCAGTGTGATTGTAATCGCACGGGCTACTCAGGCCCAAC
 TGTACCATCCCTGAGATCTGGACCTGGCTTCGGAATTCTCTCGGCCAGCCCTCGTTCACCCATTTC
 TGCTGACACATGGATACTGGCTCTGGGAATTTGTGAATGCCACCTTCATCCGAGAAGTACTCATGCGCT
 GGTACTCACAGTGCCTCAACCTATCCCAGCCCTCCGACCTACAACCTCAGCGCATGACTACATCAGC
 TGGGAGTCTTCTCCAATGTGAGCTACTATACTCGCATTCTGCCCTGTACCCAAAGACTGCCCAAC
 CCATGGGGACAAAGGGAAGAAACAGTTACCAGATGTTACAGTCTTGGCCCAACAGCTGCTGCTGAGAAG
 GGAGTTCACTTCTGCCCCAGGGCACCAACATCTGTTGCCTCTTTGCACAACACTTCAACCACCAG
 TTCTTCAAGACCTCTGGAAGATGGGTCCTGGCTTACCAAGGCCTTAGGCCACGGGGTAGACCTTGCC
 ACATTTATGGAGATAATCTGGAACGACAGTATCACCTGCGGCTCTTCAAGGATGGGAAACTTAAGTACCA
 GGTGCTGGACGGAGAGGTGTACCCACCTCCGTGGAACAGGCGTCCGTGTTGATGCGCTACCCACCAGGT
 GTCCCGCTGAAAGGCAGATGGCTGTGGGCCAGGAGGTGTTGGGTTGCTCCGGGGCTGATGCTCTTCT
 CCACGATCTGGCTTCGTGAACATAACCGCGTGTGCGACCTGCTGAAGGAGGAGCATCCCAGTGGGATGA
 TGAGCAGCTCTCCAGACCCTCGCCTCATCTTATAGGAGAAACCATCAAAATTGTCATTGAGGAGTAT
 GTGCAGCACTTGAGTGGCTATTTCTGCAGCTCAAGTTGACCCGGAGCTGCTGTTCCGAGCCCAGTTC
 AATATCGAAACCGCATCGCCATGGAATTTAACCATCTCTATCACTGGCATCCACTCATGCCCAACTCCTT
 CCAAGTGGGCTCACAAAGAGTACAGCTACGAGCAGTTTTTATTTAACACTTCTATGCTGGTGGACTATGGG
 GTTGAGGCACTGGTGGATGCCTTCTCTCGCCAGAGGGCTGGCCGATTGGTGGAGGTAGGAACTTTGACT
 ATCATGTTCTGCATGTGGCTGTGGATGTCATCAAGGAGTCCCAGAGATGCGCCTACAGCCCTTCAATGA
 ATACCGAAAGAGGTTGGCTTGAAGCCTTACACCTCTTCCAGGAGCTCACAGGAGAGAAGGAGATGGCT
 GCTGAGTTGGAGGAGCTGTACGGTGACATCGATGCTTTAGAGTTTACCCGGGGTTGCTGCTGGAGAAGT
 GCCAGCCCAACTCCATCTTTGGAGAAAGTATGATAGAGATGGGGCTCCCTTTCCCTCAAGGGCCTCT
 AGGGAATCCCATCTGTTCCAGAGTACTGAAACCCAGCACGTTCCGGTGGTACGTTGGGCTTCAACCTT
 GTCACACAGCCTCACTGAAGAACTGGTCTGCCTCAACACCAAGACCTGCCCTATGTTTCCTTCCGTG
 TGCCAGATTACCCTGGAGATGACGGGCTGTCTTAGTGAGACGCTCCACTGAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209322 representing NM_008969
 Red=Cloning site Green=Tags(s)

MSRRSLSLWFPLLLLLLLPPTPSVLLADPGVPSVNPCCYYPQCNQGVCFRFLDNYQCDCTRTGYSGPN
 CTIPEIWTWLRNSLRSPSFTFLTHGYWLWVFNATFIREVLMRLVLTVRSNLIPSPPTYNSAHDYIS
 WESFSNVSYTRILPSVPKDCPTPMGKGGKQLPDVQLLAQQLLRREFIPAPQGTNIFAFFAQHFTHQ
 FFKTSGKMGPGFTKALGHGVDLGHYGDNLERQYHLRFLKDGKLYQVLDGEVYPPSVEQASVLMRYPPG
 VPPERQMAVGQEVFGLLPGLMLFSTIWLREHNRVCDLLKEEHTWDEQLFQTRILILIGETIKIVIEEY
 VQHLSGYFLQLKFDPELLFRAQFQYRNRIAMFNHLYHWHPLMPNSFQVGSQEQYSYQFLFNTSMLVDYG
 VEALVDAFSRQRAGRIGGGRNFDYHVLHVAVDVIKESREMRLQPFNEYRKRFLKPYTSFQELTGEKEMA
 AELEELYGDIDALEFYPLLLLEKQPNISIFGESMIEMGAPFLKGLLGNPICSPEYWKPFSTFGDVGFNL
 VNTASLKKLVCLNTKTCYVVSFRVPDYPGDDGSVLRSTEL

TRTRPLE - GFP Tag - V

Restriction Sites:

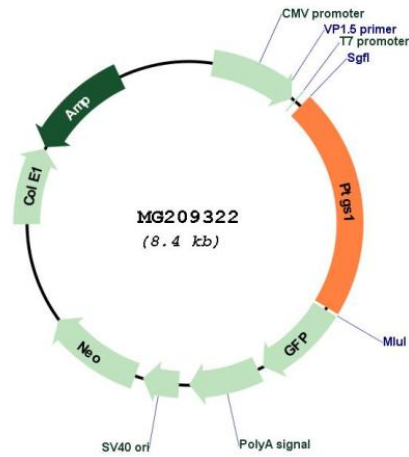
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_008969

ORF Size: 1806 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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_008969.4
RefSeq Size:	2864 bp
RefSeq ORF:	1809 bp
Locus ID:	19224
UniProt ID:	P22437
Cytogenetics:	2 24.19 cM
Gene Summary:	<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. [provided by RefSeq, Jan 2014]</p>