

Product datasheet for **RN209251**

Ptgs2 (NM_017232) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptgs2 (NM_017232) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ptgs2
Synonyms:	COX-2; Cox2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN209251 representing NM_017232
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCTTCCGAGCTGTGCTGCTCTGCGCTGCCCTGGCGCTCAGCCATGCAGCAAATCCTTGCTGTGCCA
 ACCCATGTCAAAACCGTGGTGAATGTATGAGCATAGGATTTGACCAATATAAATGTGACTGTACCCGGAC
 TGGATTCTACGGTGAAAACGTACTACGCCTGAGTTTCTGACAAGAATCAAATTACTGCTGAAGCCACC
 CCAAACACAGTACACTACATCCTGACCCACTTCAAGGGAGTCTGGAACATTGTGAACAACATTCCCTTCC
 TTCGGAATTAATCATGAGATACGTGTTGACGTCCAGATCACATTTGATTGACAGCCCACCAACTTACAA
 TGTGCACTACGGTTACAAAAGTTGGGAAGCTTTCTCAACCTCTCCTACTACACCAGGGCCCTTCTCTCT
 GTGGCTGATGACTGCCAACTCCATGGGTGTGAAAGGAAATAAGGAACCTCCTGATTCAAAGAAGTTC
 TGGAAAAGGTTCTCTGAGGAGAGATTTCATCCCGGATCCCAAGGCACAAATATGATGTTGCGATTCTT
 TGCCAGCACTTCACTCATCAGTTTTTCAAGACAGATCAGAAGCGAGGACCTGGGTTACCCGAGGACTG
 GGCCATGGAGTGGACTTAAATCATGTTTACGGTGAACCTTAGACAGACAACATAAACTTCGACTTTTCC
 AGGATGGAATAATGAAATATCAGGTCATCGGTGGAGAGGTGTATCCTCCCACAGTCAAAGACACTCAGGT
 AGACATGATCTACCCTCCCCACGTCCCTGAGCACCTGCGGTTGCTGTGGGGCAGGAAGTCTTGGTCTG
 GTGCCGGTCTGATGATGTATGCTACCATCTGGCTTCGGGAGCACAACAGAGTGTGTGATATACTCAAAC
 AGGAGCATCCTGAGTGGGATGACGAGCGACTGTTCAAACCAGCAGGCTCATACTGATAGGAGAGACGAT
 CAAGATAGTGATCGAAGACTACGTGCAACACCTGAGCGGTTACCACTTCAAACCTCAAGTTCGACCCAGAG
 CTGCTTTTCAACCAGCAGTTCAGTATCAGAACCAGTTCGCTCTGAATCAACACACTCTACTACTGGC
 ATCCGCTGCTGCCGGACACCTTCAACATTGAAGACCAGGAGTACACTTTCAAACAGTTTCTTACAACAA
 CTCCATCCTCCTTGAACACGGACTTGCTCACTTTGTTGAGTCATTACCAGACAGATTGCTGGCCGGGTT
 GCTGGGGGAAGGAATGTTCCAATCGCTGTACAAGCAGTGGCAAAGGCCTCCATTGACCAGAGCAGAGAGA
 TGAAATACCAGTCTCTCAATGAGTACCGCAAACGCTTCTCCCTGAAACCTTACACATCGTTTGAAGAACT
 TACAGGAGAGAAAAGAAATGGCTGCAGAGTTGAAAGCCCTCTACCATGACATCGATGCCATGGAACGTAT
 CCCGCCCTGCTGGTGGAAAAGCCTCGTCCAGATGCTATCTTTGGGGAGACCATGGTAGAAGTGGAGCTC
 CATTCTCCTTGAAGGCCTTATGGGTAATCCCCTCTGTTCTCCTCAACTGGAAACCTAGCACCTTCGG
 AGGAGAAGTGGGTTTTAGGATCATCAACACTGCCTCAATTCAGTCTCTCATCTGCAATAATGTGAAAGGG
 TGTCCTTTGCTCTTTCAATGTGCAAGACCCGACGCTACCAAGACAGCCACCATCAACGCAAGTGCCT
 CCCACTCCAGACTAGATGACATTAACCCCTACAGTACTAATCAAAGGCGTTCAACTGAGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_017232
- Insert Size:** 1815 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).

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_017232.3](#), [NP_058928.3](#)

RefSeq Size: 1815 bp

RefSeq ORF: 1815 bp

Locus ID: 29527

UniProt ID: [P35355](#)

Cytogenetics: 13q21

Gene Summary: catalyzes the conversion of arachidonic acid products to prostaglandin; may play a role in response to endotoxic shock; may a role in long term potentiation [RGD, Feb 2006]