

## Product datasheet for MC209254

### Ptgds (NM\_008963) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ptgds (NM\_008963) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ptgds  
**Synonyms:** 21kDa; L-PGDS; PGD2; PGDS; PGDS2; Ptg3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209254 representing NM\_008963  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGCTCTTCGCATGCTGTGGATGGGTTTGGTCCTCCTGGGCTCTTGGGATCCCACAGACCCAG  
 CCCAGGGCCATGACACAGTGCAGCCCACTTTCAACAAGACAAGTTCCTGGGGCGCTGGTACAGCGCGGG  
 CCTCGCCTCCAACCTCAAGCTGGTCCGGGAGAAGAAAGCTGTATTGTATATGTGCAAGACAGTGGTAGCC  
 CCCTCCACAGAAGGCGGCCCTCAATCTCACCTCTACCTTCCTCAGGAAAAACCAGTGTGAGACCAAGATCA  
 TGGTACTGCAGCCTGCGGGGGCTCCTGGACACTACACCTACAGCAGCCCCCACTCGGGCAGCATCCACTC  
 CGTGTCACTGGTGGAGGCCAACTATGACGAGTACGCTCTGCTATTGAGCAGAGGCACCAAGGGCCAGGC  
 CAGGACTTCCGCATGGCCACCCTCTACAGCAGAACCCAGACTCTGAAGGACGAGCTGAAGGAGAAATTCA  
 CCACCTTTAGCAAGGCCAGGGCCTCACAGAGGAGGACATTGTTTTCTGCCCAACCGGATAAGTGCAT  
 TCAAGAG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_008963  
**Insert Size:** 570 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).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_008963.2</a></u> , <u><a href="#">NP_032989.2</a></u>
<b>RefSeq Size:</b>	806 bp
<b>RefSeq ORF:</b>	570 bp
<b>Locus ID:</b>	19215
<b>UniProt ID:</b>	<u><a href="#">O09114</a></u>
<b>Cytogenetics:</b>	2 17.28 cM
<b>Gene Summary:</b>	Catalyzes the conversion of PGH2 to PGD2, a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation. Involved in a variety of CNS functions, such as sedation, NREM sleep and PGE2-induced allodynia, and may have an anti-apoptotic role in oligodendrocytes. Binds small non-substrate lipophilic molecules, including biliverdin, bilirubin, retinal, retinoic acid and thyroid hormone, and may act as a scavenger for harmful hydrophobic molecules and as a secretory retinoid and thyroid hormone transporter. Possibly involved in development and maintenance of the blood-brain, blood-retina, blood-aqueous humor and blood-testis barrier. It is likely to play important roles in both maturation and maintenance of the central nervous system and male reproductive system.[UniProtKB/Swiss-Prot Function]