

## Product datasheet for RN203997

### Ptgdr2 (NM\_001012070) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ptgdr2 (NM\_001012070) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ptgdr2  
**Synonyms:** Gpr44  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN203997 representing NM\_001012070  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAACATCACACTGAAGCCGCTCTGTCCACTCTTGGAGGAGATGGTCCAGCTTCAAACCACAGCA  
 ACTCTAGCCTCCGCTATATTGACCACGTGTCGGTGTGTTGCACGGCTGGCTCCCTGCTGGCCCTGGT  
 GAAAAACGGACTCATCTGTTTGTGGTGGGCTGTGCGATGCGCCAGACGGTGGTCACTACCTGGGTGCTG  
 CACTGGCGCTGTCCGACTTGTAGCCGCTGCCTCTGCTTTCTTACCTACTTTCTGGCAGTGGGCC  
 ACTCGTGGAACTGGGCACCACTTTCTGCAAGTACATTCTCGGTCTTCTTCTCAACATGTTTGGCAG  
 CGGCTTCTGCTCAGCGCCATCAGCCTGGATCGCTGCCTGCAGGTGGTGGGCCAGTGTGGGCACAGAAC  
 CACCGCACGGTGGCGGCCGCGCACAGAGTCTGCCTGATGCTCTGGGCTCTGGCGGTGCTCAACACAGTAC  
 CCTATTTCTGTTTTCAGGGACACCATCCCGCGCGTGTGGCCGCATCATGTGCTATTACAACATGCTGCT  
 CTTGAATCCAGGGTCTGACCGCGACACCACGTGCGACTACCGTACAGAGCCCTGGCGGTGAGCAAGTTC  
 CTGTTGGCCTTCATGGTACCTCTGGCCATCATCGCCTCGAGCCAGTGGCTGTGAGCCTACAACATGCATC  
 ACCGTGGTCCAGAGGACAGGCCGTTTCTGTCGTCTGGTGGCAGCCATAGTGGTGGCCTTCACTACTCTG  
 CTGGGGGCCCTACCACATCTTCACTGCTGTTGGAGGCGCGTGCCTTCTGTACCCAGCTACGGCAGCTC  
 CGTACGTGGGCTGCCCTTTGTCAACAGCCTGGCCTTCTTCAACAGCGTGGTCAACCCACTACTCTATG  
 TGCTCACTGTCCGACATGTTGCACAAGCTGAGGCGCTCGTACTCACGGTGGTGGAAAGCGTGGTGGT  
 GGAGGACAGCAGCTGAGTACTGGGCCCGCAAGCGCTGTGCGCCGCCATCGCCGCCGCGCTCCTCC  
 ACCACCACCCAGCCTTACCTTACTGCTGGTGGTACCGATTTCCCAACTGCGTCTGCTCGTTAATCG  
 GCTGGATGAGGCGTGGCAGTGCAGAGCTCCACGGAGGGTCCGAGAGCAGTCCAGGAGAAGCAGGGCTC  
 ATTGAGCTGTACTTTGGAT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001012070
<b>Insert Size:</b>	1212 bp
<b>OTI Disclaimer:</b>	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).
<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_001012070.1</a></u> , <u><a href="#">NP_001012070.1</a></u>
<b>RefSeq Size:</b>	1297 bp
<b>RefSeq ORF:</b>	1212 bp
<b>Locus ID:</b>	309212
<b>UniProt ID:</b>	<u><a href="#">Q6XKD3</a></u>
<b>Cytogenetics:</b>	1q43
<b>Gene Summary:</b>	Receptor for prostaglandin D2 (PGD2). Coupled to the G(i)-protein. Receptor activation may result in pertussis toxin-sensitive decreases in cAMP levels and Ca(2+) mobilization. PI3K signaling is also implicated in mediating PTGDR2 effects. PGD2 induced receptor internalization. CRTH2 internalization can be regulated by diverse kinases such as, PKC, PKA, GRK2, GPRK5/GRK5 and GRK6. Receptor activation is responsible, at least in part, in immune regulation and allergic/inflammation responses (By similarity).[UniProtKB/Swiss-Prot Function]