

Product datasheet for **RR203997**

Ptgdr2 (NM_001012070) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptgdr2 (NM_001012070) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptgdr2
Synonyms:	Gpr44
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203997 representing NM_001012070 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAACATCACACTGAAGCCGCTCTGTCCACTCTTGGAGGAGATGGTCCAGCTTCAAACCACAGCA
ACTCTAGCCTCCGCTATATTGACCACGTGTCGGTGTGTTGCACGGCTGGCTCCCTGCTGGCCCTGGT
GGAAAACGGACTCATCTGTTTGTGGTGGGCTGTGCGATGCGCCAGACGGTGGTCACTACCTGGGTGCTG
CACCTGGCGCTGTCCGACTTGTAGCCGCTGCCTCTGCTTTCTTACCTACTTTCTGGCAGTGGGCC
ACTCGTGGGAAGTGGGACCACTTTCTGCAAGTACATTCTCGGTCTTCTTCTCAACATGTTTGGCAG
CGGCTTCTGCTCAGCGCCATCAGCCTGGATCGCTGCCTGCAGGTGGTGGGACAGTGTGGGCACAGAAC
CACCGCACGGTGGCGGCCGCGCACAGAGTCTGCCTGATGCTCTGGGCTCTGGCGGTGCTCAACACAGTAC
CCTATTTCTGTTTTCAGGGACACCATCCCGCGCGTGTGGCCGCATCATGTGCTATTACAACATGCTGCT
CTTGAATCCAGGGTCTGACCGCGACACCACGTGCGACTACCGTCAGAAGGCCCTGGCGGTGAGCAAGTTC
CTGTTGGCCTTCATGGTACCTCTGGCCATCATCGCCTCGAGCCAGTGGCTGTGAGCCTACAACATGCATC
ACCGTGGTGGCCAGAGGACAGGCCGTTTCTGTCGCTGTTGGAGGCGCGTGGCCATTCTGTACCCAGCTACGGCAGCTC
CTGGGGGCCCTACCACATCTTCACTGTTGGAGGCGCGTGGCCATTCTGTACCCAGCTACGGCAGCTC
CGTACGTTGGGCTGCCCTTTGTCAACAGCCTGGCCTTCTTCAACAGCCTGGTCAACCCACTACTCTATG
TGCTCACTTGTCCGACATGTTGCACAAGCTGAGGCGCTCGTACTCACGGTGGTGGAAAGCGTGGTGGT
GGAGGACAGCAGCTGAGTACTGGGCCCGCAAGCGCTGTGCGCCGCCATCGCCGCCGCGCTCCTCC
ACCACCACCCAGCCTCTACCTTACTGCTGGCTGACCGATTTCCCAACTGCGTCTGCTCGTTAATCG
GCTGGATGAGGCGTGGCAGTGCAGAGCTCCACGGAGGGTCCGAGAGCAGTCCAGGAGAAGCAGGGCTC
ATTGAGCTGTACTTTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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ORF Size:	1209 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<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_001012070.1 , NP_001012070.1
RefSeq Size:	1297 bp
RefSeq ORF:	1212 bp
Locus ID:	309212
UniProt ID:	Q6XKD3
Cytogenetics:	1q43
MW:	45.3 kDa
Gene Summary:	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]