

Product datasheet for **MG219981**

Ptgdr2 (NM_009962) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptgdr2 (NM_009962) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ptgdr2
Synonyms: Crth2; Gpr44; Grp45
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219981 representing NM_009962
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAACGTCACACTGAAGCCGCTCTGTCCACTCTTGGAGGAGATGGTCCAGCTTCCAAACCACAGCA
 ACTCTAGCCTCCGCTACATCGACCACGTGTCGGTGTGTTGCACGGCTGGCCTCGCTGCTGGCCCTGGT
 GGAAAACGGACTCATCTGTTTGTGGTGGGCTGTCGCATGCGCCAGACAGTGGTCAACCTGGGTGCTG
 CACCTGGCGCTATCCGACTTGTAGCCGCCCTCCCTGCCTTTCTTACCTACTTCTGGCAGTGGCC
 ACTCGTGGGAGCTGGGCACTACCTTCTGCAAGCTACATTCCTCGGTCTTCTTCTCAACATGTTTGCCAG
 CGGCTTCCTGCTCAGTGCCATTAGCCTGGACCGCTGCCTGCAGGTGGTGAGGCCAGTGTGGGCACAGAAC
 CACCGCACGGTGGCGGTGCGGCACAGAGTCTGCCTGATGCTCTGGGCTCTGGCGGTGCTCAACACAATAC
 CATATTTCTGTTTCTGAGACACCATCCCGCGGCTTGTATGGCCGATCATGTGCTACTACAACCTGCTGCT
 CTGGAATCCAGGGCCTGACCGCGACACCACGTGCGACTACCGCCAGAAGGCCCTGGCGGTGAGCAAAATC
 CTGCTGGCCTTCATGGTACCTCTGGCCATAATTGCCTCGAGCCAGTACCGGTGAGCCTGCGACTGCACC
 ACCGTGGTCCGACAGGACAGGCCGCTTGTGCGCCTGGTGGCGCCATCGTGGTGCCTTCGTGCTCTG
 CTGGGGGCCCTACCACATCTTCACTGCTGGAGGCGCGTGCCATTCTGTCACCACGCTACGGCAGCTC
 GCGTCAAGTGGGCTGCCCTTTGTACCAGCCTGGCCTTCTCAACAGCGTGGTCAACCCACTGCTCTATG
 TGTTACATGCCCGACATGTTGTACAACTGCGGCGCTCGCTACGCGCGGTGCTTGAAGCGTGTGTT
 AGAAGACAGCGACCAGAGTGGTGGGCTCCGCAATCGCCGTCGCCGCGCTCCTCCACCGCCACCCGAGCC
 TCTACCCTCCTGCTGGTACCGAATCCCAACTGCGTCCAACCGCTTGTATCGGCTGGATGAGGCGTG
 GCAGTGCAGAGTCCACAGAGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219981 representing NM_009962
 Red=Cloning site Green=Tags(s)

MANVTLKPLCPLLEEMVQLPNHSNSSLRYIDHVSVLLHGLASLLGLVENGLILFVVGCRMQRQTVVTTWVL
 HLALSDLLAAASLPFFTYFLAVGHSWELGTTFFCKLHSSVFFLNMFASGFLLSAISLDRCLQVVRPVWAQN
 HRTVAVAHRVCLMLWALAVLNTIPYFVFRDTIPRLDGRIMCYNLLLWNPDPDRDTCDYRQKALAVSKF
 LLAFMVPLAIIASSHVAVSLRLHHRGRQRTGRFVRLVAIIVVAFVLCWGPYHIFSLLEARHSVTTLRQL
 ASRGLPFVTSLAFFNSVYNPLL YVFTCPDMLYKLRRLRAVLESVLVEDSDQSGGLRNRRRRRASSTATPA
 STLLLADRIPQLRPTRLIGWMRRGSAEVPQRV

TRTRPLE - GFP Tag - V

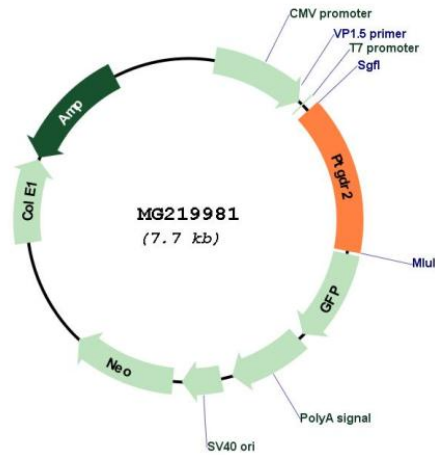
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_009962

ORF Size:	1146 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_009962.3
RefSeq Size:	2644 bp
RefSeq ORF:	1149 bp
Locus ID:	14764
UniProt ID:	Q9Z2J6
Cytogenetics:	19 A
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]