

Product datasheet for MR219981

Ptgdr2 (NM_009962) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptgdr2 (NM_009962) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptgdr2
Synonyms:	Crth2; Gpr44; Grp45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219981 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAACGTCACACTGAAGCCGCTCTGTCCACTCTTGGAGGAGATGGTCCAGCTTCCAAACCACAGCA
ACTCTAGCCTCCGCTACATCGACCACGTGTCGGTGTGTTGCACGGGCTGGCCTCGCTGCTGGGCCTGGT
GGAAAACGGACTCATCTGTTTGTGGTGGGCTGTCGCATGCGCCAGACAGTGGTCACCACCTGGGTGCTG
CACCTGGCGCTATCCGACTTGTAGCCGCCGCCCTCCCTGCCTTTCTTACCTACTTCTGGCAGTGGCC
ACTCGTGGGAGCTGGGCACTACCTTCTGCAAGCTACATTCTCGGTCTTCTTCTCAACATGTTTGCCAG
CGGCTTCCCTGCTCAGTGCCATTAGCCTGGACCGCTGCCTGCAGGTGGTGAGGCCAGTGTGGGCACAGAAC
CACCGCACGGTGGCGGTGCGGCACAGAGTCTGCCTGATGCTCTGGGCTCTGGCGGTGCTCAACACAATAC
CATATTTCTGTTTTCAGAGACACCATCCCGCGGCTTGTATGGCCGCATCATGTGCTACTACAACCTTGTGCT
CTGGAATCCAGGGCCTGACCGCGACACCACGTGCGACTACCGCCAGAAGGCCCTGGCGGTGAGCAAAATC
CTGCTGGCCTTTCATGGTACCTCTGGCCATAATTGCCTCGAGCCACGTAGCCGTGAGCCTGCGACTGCACC
ACCGTGGTCCGACAGGACAGGCCGCTTGTGCGCCTGGTGGCGCCATCGTGGTGCCTTCGTGCTCTG
CTGGGGGCCCTACCACATCTTCACTGCTGGAGGCGCGTGCCATTCTGTCACCACGCTACGGCAGCTC
GGTCAAGTGGGCTGCCCTTTGTACCAGCCTGGCCTTCTTCAACAGCGTGGTCAACCCACTGCTCTATG
TGTTACATGCCCGACATGTTGTACAACTGCGGCGCTCGCTACGCGCGGTGCTTGAAGCGGTGCTGGT
AGAAGACAGCGACCAGAGTGGTGGGCTCCGCAATCGCCGTCGCCGCGCTCCTCCACCGCCACCCGAGCC
TCTACCCTCCTGCTGGTACCGAATCCCAACTGCGTCCAACCGCTTGTATCGGCTGGATGAGGCGTG
GCAGTGCAGAGGTCCACAGAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219981 protein sequence
 Red=Cloning site Green=Tags(s)

MANVTLKPLCPLLEEMVQLPNHSNSSLRYIDHVSVLLHGLASLLGLVENGLILFVVGCRMRTQVVTTWVL
 HLALSDLLAAASLPFFTYFLAVGHSWELGTTFFCKLHSSVFFLNMFASGFLLSAISLDRCLQVVRPVAQN
 HRTVAVAHRVCLMLWALAVLNTIPYFVFRDTIPRLDGRIMCYNLLLWNPDPDRDTCDYRQKALAVSKF
 LLAFMVPLAIIASSHVAVSLRLHHRGRQRTGRFVRLVAAIVVAVFLCWGPYHIFSLLEARAHSVTLRQL
 ASRGLPFVTSLAFNSVNPPLL YVFTCPDMLYKLRRLRAVLESVLVEDSDQSGGLRNRRRRASSTATPA
 STLLLADRIPQLRPTRLIGWMRRGSAEVPQRV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009962

ORF Size: 1149 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:

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

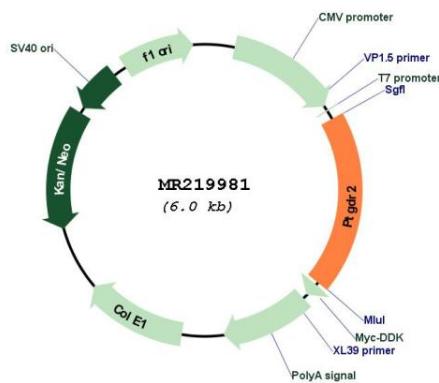
UniProt ID: [Q9Z2J6](#)

Cytogenetics: 19 A

MW: 42.9 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]

Product images:



Circular map for MR219981