

Product datasheet for RC216083

Prostaglandin F2 alpha Receptor (PTGFR) (NM_001039585) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prostaglandin F2 alpha Receptor (PTGFR) (NM_001039585) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prostaglandin F2 alpha Receptor
Synonyms:	FP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216083 representing NM_001039585 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCATGAACAATCCAAACAGCTAGTGTCTCCTGCAGCTGCGCTTCTTTCAAACACAACCTGCCAGA
CGGAAAACCGGCTTCCGTATTTTTTCAGTAATCTTCATGACAGTGGGAATCTGTCAAACAGCCTTGC
CATCGCCATTTCATGAAGGCATATCAGAGATTTAGACAGAAGTCCAAGGCATCGTTTCTGCTTTTGCC
AGTGGCCTGGTAATCACTGATTTCTTTGGCCATCTCATCAATGGAGCCATAGCAGTATTTGTATATGCTT
CTGATAAAGAATGGATCCGCTTTGACCAATCAAATGTCCTTTGCAGTATTTTGGTATCTGCATGGTGTT
TTCTGGTCTGTGCCACTTCTTCTAGGCAGTGTGATGGCCATTGAGCGGTGATTGGAGTCACAAAACCA
ATATTTCAATTCTACGAAAATTACATCCAAACATGTGAAAATGATGTTAAGTGGTGTGTGCTTGTGTTGCTG
TTTTCATAGCTTTGCTGCCCATCCTTGGACATCGAGACTATAAAATTCAGGCGTCGAGGACCTGGTGTTT
CTACAACAGAAAGACATCAAAGACTGGGAAGATAGATTTTATCTTCTACTTTTTCTTTCTGGGGCTC
TTAGCCCTTGGTGTTTCATTGTTGTGCAATGCAATCACAGGAATTACACTTTTAAAGATTAATTTAAAA
GTCAGCAGCACAGACAAGGCAGATCTCATCATTGGAAATGGTAATCCAGCTCCTGGCGATAATGTGTGT
CTCCTGTATTTGTTGGAGCCATTTCTGGGATACAGAATAATTTGAATGGAAAGAGAAAATATAAAGTA
TATGAAGAGCAAAGTGATTTCTTACATAGGTTACAATGGCCAACATTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216083 representing NM_001039585
 Red=Cloning site Green=Tags(s)

MSMNSKQLVSPAAALLSNTTCQTENRLSVFFSVIFMTVGILSNSLAIAILMKAYQRFRQKSKASFLLLA
 SGLVITDFFGHLINGAIAVFVYASDKEWIRFDQSNVLCISIFGICMVFSGLCPLLLGSMVAIERCIGVTKP
 IFHSTKITSKHVKMMLSGVCLFAVFIALLPILGHRDYKIQASRTWCFYNTEDIKWEDRFYLLLFSLGL
 LALGVSLLCNAITGITLLRVKFKSQHRQGRSHHLEMIQLLAIMCVSICWSPFLGYRIILNGKEYKV
 YEEQSDFLHRLQWPTLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039585

ORF Size: 891 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_001039585.2](#)

RefSeq Size: 5431 bp

RefSeq ORF: 894 bp

Locus ID: 5737

UniProt ID: [P43088](#)

Cytogenetics: 1p31.1

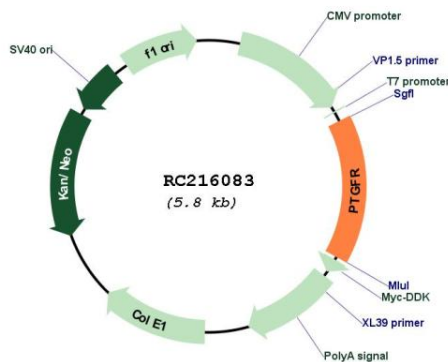
Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

MW: 33.65 kDa

Gene Summary: The protein encoded by this gene is member of the G-protein coupled receptor family. This protein is a receptor for prostaglandin F2-alpha (PGF2-alpha), which is known to be a potent luteolytic agent, and may also be involved in modulating intraocular pressure and smooth muscle contraction in uterus. Knockout studies in mice suggest that the interaction of PGF2-alpha with this receptor may initiate parturition in ovarian luteal cells and thus induce luteolysis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC216083