

Product datasheet for MR205626

Ptgfr (NM_008966) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptgfr (NM_008966) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptgfr
Synonyms:	A1957154; fp; PGF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205626 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTATGAACAGTTCCAAGCAGCCAGTGTCTCCTGCAGCTGGACTCATCGAAACACAACCTGCCAGA
CGGAGAACCGGCTTTCAGTATTTTTTCTATCATCTTCATGACAGTGGGGATCTTATCGAACAGCCTGGC
CATCGCCATTTCATGAAGGCCTACCAGAGATTTAGACAGAAGTCAAAGGCTTCTTCTGCTTTTGGCT
AGTGGCCTGGTGATCACAGACTTCTTTGGCCACCTTATCAACGGAGGCATAGCTGTCTTTGTATATGCTT
CTGATAAAGACTGGATCCGCTTTGATCAGTCAAACATCCTGTGCAGTATTTTTGGAATCTCCATGGTCTT
TTCTGGCTTGTGCCACTTTTTCTAGGCAGTGGCATGGCCATCGAGAGGTGTATAGGAGTACCAATCCT
ATATTTCACTCTACGAAGATCACATCTAAACACGTGAAAATGATCCTGAGTGGTGTGTGCATGTTTGCTG
TGTTCTGGTGTGTGCTGCCATCCTTGGACACCGAGATTATCAAATCCAAGCGTCCAGAACCTGGTGTTT
CTACAACAGAGCACATCGAAGACTGGGAAGACAGATTTATCTCCTGTTCTTTTCTTCTCGGACTC
TTAGCTCTTGGTGTTCCTTCTCGTGCAATGCCGTACGGGAGTCACTCTTAAGAGTGAAGTTTCAGAA
GCCAGCAGCATAGGCAAGGCAGATCTCACCACCTGGAGATGATCATTAGCTCCTGGCCATAATGTGCGT
CTCCTGCGTCTGCTGGAGTCCCTTTCTGGTAACAATGGCCAACATTGCAATAAATGGAAATAATCCCA
GTGACCTGTGAAACGACACTTTTTGCTCTCCGATGGCAACGTGGAATCAGATCTTAGATCCCTGGGTCT
ATATTCTGCTACGAAGGCTGTCCTTAGGAACCTGTATAAATTGCCAGTCGTTGCTGTGGAGTTAACAT
CATCAGCTTGCATATCTGGAACTCAGCTCCATCAAGAATTCCTTAAAGTTGCTGCTATTTCTGAGTCA
CCAGCTGCAGAGAAGGAGAGCCAGCAAGCATCGAGTGAAGCTGGACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205626 protein sequence
Red=Cloning site Green=Tags(s)

MSMNSSKQPVSPAAGLIANTTCQTENRLSVFFSIIIFMTVGILSNLSLAIAILMKAYQRFQKSKASFLLA
 SGLVITDFFGHLINGGIIVFYASDKDWIRFDQSNILCSIFGISMVFSGLCPLFLGSAMAIERCIGVTNP
 IFHSTKITSKHVKMILSGVCMFAVAVLPIILGHRDYQIQASRTWCFYNTHEHIEDWEDRFYLLFFSFLGL
 LALGVSFSCNAVTVGTVLLRVKFRSQHRQGRSHHLEMI IQLLAIMCVSCVCWSPFLVTMANIAINGNNSP
 VTCETTLFALRMATWNQILDWPVYILLRKAVLRNLYKLASRCCGVNIISLHIWELSSIKNSLKVAAISES
 PAAEKESQQASSEAGL

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_008966

ORF Size: 1101 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_008966.3](#), [NP_032992.1](#)

RefSeq Size: 4414 bp

RefSeq ORF: 1101 bp

Locus ID: 19220

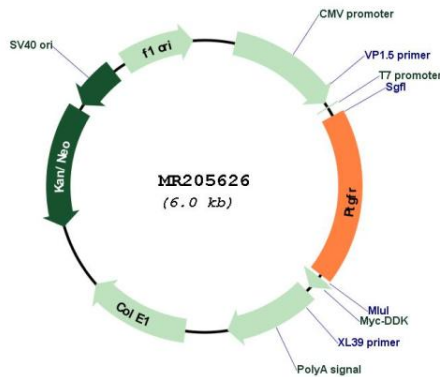
UniProt ID: [P43117](#)

Cytogenetics: 3 76.96 cM

MW: 40.7 kDa

Gene Summary: Receptor for prostaglandin F2-alpha (PGF2-alpha). The activity of this receptor is mediated by G proteins which activate a phosphatidylinositol-calcium second messenger system. Initiates luteolysis in the corpus luteum (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205626