

Product datasheet for **MG205626**

Ptgfr (NM_008966) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptgfr (NM_008966) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ptgfr
Synonyms: AI957154; fp; PGF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205626 representing NM_008966
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTATGAACAGTTCCAAGCAGCCAGTGTCTCCTGCAGCTGGACTCATCGAAACACAACCTGCCAGA
 CGGAGAACCGGCTTTAGTATTTTTTCTATCATCTTCATGACAGTGGGATCTTATCGAACAGCCTGGC
 CATCGCCATTTCATGAAGGCCTACCAGAGATTTAGACAGAAGTCAAAGGCTTCTTCTGCTTTTGGCT
 AGTGGCCTGGTGATCACAGACTTCTTTGGCCACCTTATCAACGGAGGCATAGCTGTCTTTGTATATGCTT
 CTGATAAAGACTGGATCCGCTTTGATCAGTCAAACATCCTGTGCAGTATTTTTGGAATCTCCATGGTCTT
 TTCTGGCTTGTGCCACTTTTTCTAGGCAGTGGCATGGCCATCGAGAGGTGTATAGGAGTACCAATCCT
 ATATTTCACTCTACGAAGATCACATCTAAACACGTGAAAATGATCCTGAGTGGTGTGTGCATGTTTGCTG
 TGTTCTGGTGTGTGCTGCCATCCTTGGACACCGAGATTATCAAATCCAAGCGTCCAGAACCTGGTGTTT
 CTACAACAGAGACATCGAAGACTGGGAAGACAGATTTTATCTCCTGTTCTTTTCTTCTCGGACTC
 TTAGCTCTTGGTGTTCCTTCTCGTGCAATGCCGTACGGGAGTCACACTCTTAAGAGTGAAGTTCAGAA
 GCCAGCAGCATAGGCAAGCAGATCTCACCACCTGGAGATGATCATTAGCTCCTGGCCATAATGTGCGT
 CTCCTGCGTCTGCTGGAGTCCCTTTCTGGTAACAATGGCCAACATTGCAATAAATGGAAATAATCCCA
 GTGACCTGTGAAACGACACTTTTTGCTCTCCGATGGCAACGTTGAATCAGATCTTAGATCCCTGGGTCT
 ATATTCTGCTACGGAAGGCTGTCCTTAGGAACCTGTATAAACTTGCCAGTCGTTGCTGTGGAGTTAACAT
 CATCAGCTTGATATCTGGAACTCAGCTCCATCAAGAATTCCTTAAAGTTGCTGCTATTTCTGAGTCA
 CCAGCTGCAGAGAAGGAGAGCCAGCAAGCATCGAGTGAAGCTGGACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205626 representing NM_008966
 Red=Cloning site Green=Tags(s)

```
MSMNSSKQPVSPAAGLIANTTCQTENRLSVFFSIIIFMTVGILSNLAIAILMKAYQRFQKSKASFLLA
SGLVITDFFGHLINGGIAVFVYASDKDWIRFDQSNILCSIFGISMVFSGLCPLFLGSAMAIERICIGVTNP
IFHSTKITSKHVKMILSGVCMFAVAVLPLILGHRDYQIQASRTWCFYNTHEHIEDWEDRFYLLFFSFLGL
LALGVSFSCNAVTVGVTLLRVKFRSQHRQGRSHHLEMIIQLLAIMCVSCVCWSPFLVTMANIAINGNNSP
VTCETTFLALRMATWNQILDWPVYILLRKAVLRNLYKLASRCCGVNIISLHIWELSSIKNSLKVAAISES
PAAEKESQQASSEAGL
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008966

ORF Size: 1098 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

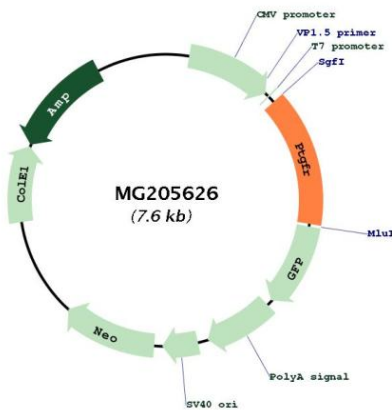
Locus ID: 19220

UniProt ID: [P43117](#)

Cytogenetics: 3 76.96 cM

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 MG205626