

Product datasheet for **RG216083**

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:	TurboGFP
Symbol:	PTGFR
Synonyms:	FP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216083 representing NM_001039585 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216083 representing NM_001039585
Red=Cloning site Green=Tags(s)

MSMNSKQLVSPAAALLSNTTCQTENRLSVFFSVIFMTVGILSNLSLAIAILMKAYQRFRQKSKASFLLLA
 SGLVITDFFGHLINGAIAVFVYASDKEWIRFDQSNVLCISIFGICMVFSGLCPLLLGSMVAIERCIGVTKP
 IFHSTKITSKHVKMMLSGVCLFAVFIALLPILGHRDYKIQASRTWCFYNTEDIKWEDRFYLLLFSLGL
 LALGVSLCCNAITGITLLRVKFKSQQHRQGRSHHLEMIQLLAIMCVSCICWSPFLGYRIILNGKEYKV
 YEEQSDFLHRLQWPTLE

TRTRPLE - GFP Tag - V

Restriction Sites:

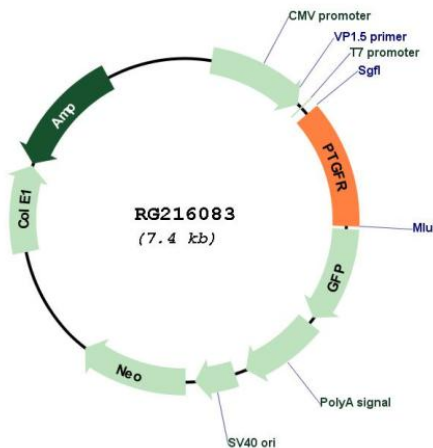
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<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_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
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]