

Product datasheet for SC119562

Prostaglandin F2 alpha Receptor (PTGFR) (NM_000959) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prostaglandin F2 alpha Receptor (PTGFR) (NM_000959) Human Untagged Clone
Tag:	Tag Free
Symbol:	Prostaglandin F2 alpha Receptor
Synonyms:	FP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119562 sequence for NM_000959 edited (data generated by NextGen Sequencing)

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ATGTCCATGAACAATTCCAACAGCTAGTGTCTCCTGCAGCTGCGCTTCTTTCAAACACA
ACCTGCCAGACGAAAACCGCTTCCGTATTTTTTTCAGTAATCTTCATGACAGTGGGA
ATCTTGTCAAACAGCCTTGCCATCGCCATTCTCATGAAGGCATATCAGAGATTTAGACAG
AAGTCCAAGGCATCGTTTCTGCTTTTGGCCAGTGGCTGGTAATCACTGATTTCTTTGGC
CATCTCATCAATGGAGCCATAGCAGTATTTGTATATGCTTCTGATAAAGAATGGATCCGC
TTTGACCAATCAAATGCCTTTGCAGTATTTTTGGTATCTGCATGGTGTCTTCTGGTCTG
TGCCCACTTCTTAGGCAGTGTGATGGCCATTGAGCGGTGATTGGAGTCACAAAACCA
ATATTTTATTCTACGAAAATTACATCCAACATGTGAAAATGATGTTAAGTGGTGTGTGC
TTGTTTGCTGTTTTTCATAGCTTTGCTGCCATCCTTGGACATCGAGACTATAAAATTCAG
GGTTCGAGGACCTGGTGTCTACAACACAGAAGACATCAAGACTGGGAAGATAGATTT
TATCTTCTACTTTTTCTTTTCTGGGGCTTAGCCCTTGGTGTTCATTGTTGTGCAAT
GCAATCACAGGAATTACACTTTAAGAGTTAAATTTAAAAGTCAGCAGCACAGACAAGGC
AGATCTCATCATTTGGAAATGGTAATCCAGCTCCTGGCGATAATGTGTGTCTCCTGTATT
TGTTGGAGCCATTTCTGGTTACAATGGCCAACATTGGAATAAATGGAATCATTCTCTG
GAAACCTGTGAAACAACACTTTTTGCTCTCCGAATGGCAACATGGAATCAAATCTTAGAT
CCTTGGGTATATATTCTTCTACGAAAAGGCTGCTTAAAGAATCTCTATAAGCTTGCCAGT
CAATGCTGTGGAGTGCATGTCATCAGCTTACATATTTGGGAGCTTAGTTCCATTAATAAAT
TCCTTAAAGGTTGCTGCTATTTCTGAGTCACCAGTTGCAGAGAAAATCAGCAAGCACCTAG

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Clone variation with respect to NM_000959.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000959 unedited AGTGCGCGGAGGGGACGAGCGGCTGGACCACAGCCGGCGCCGATCAGGATCTCCGCGCT GGGATCGGTGAACTTGAGGCAGCGGCGGGGCGCCATGGCACACCGAGCGGCTCC GTCTTCTGCTCCTCAGAGAGCCCGGCTGGCGGCTGGGATGACAAGATGTCTGGACTGCA ATCCTGCACAGTTTTGAGAGGGAGATGACTTGAGTGGTTGGCTTTTATCTCCACAACAAT GTCCATGAACAATTCCAAACAGCTAGTGTCTCCTGCAGCTGCGCTTCTTCAAACACAAC CTGCCAGACGGAACCCGGCTTTCCGTATTTTTTTCAGTAATCTTCATGACAGTGGGAAT CTTGTCAAACAGCCTTGCCATCGCCATTCTCATGAAGGCATATCAGAGATTTAGACAGAA GTCCAAGGGCATCGTTTCTGCTTTTGGCCAGGGGCTGGTAATCACTGATTTCTTTGGCC ATCTCATCAATGGAGCCATAGCAGTATGTGTATATGCTTCTGATAAAGAATGGATCCGCT TTGACCAATCAAATGTCCCTTGCAATTTTTTGGGATCTGCATGGTGTCTTCTGGTCTG TGCCCACTTCTTAGGCAGGGGATGGGCATTGAGCGGGGATTGAAGTCCCAAACCA TATTTTCTTACAAAATCCTCAAACATGTGAAATGATGTTAAGGGGTGTGCCTGTT GCCGGTTAATAGCTTTGCTGGCCCTCCTTGGACCTCGAGACTTAAATTCACGGCTGGA AGACCCNGGGGTTTTCT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000959 unedited NTTTTAGCTNTGNACCAGCGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTAAACATTAGTCCCACTTTATTATAAAATTAAGTTGTTGAAGTT TTAAGCTAGTCAAAGCACTAAAATTACATGAGTTGCATACCAAAGCAAACAACAAAATAT ACATATCACTATTTAATCTCTATACAATCCAACAAGTATGAAGAGCACACATACATTTA TTCACATAACCAAAAAAATGTTTCATCTACTATTAATGAGCCAGTAACAAGTTGA AGTCCAACATTATTTACCAGGGGTAAAATCTTTGACACCCAGATTAAGTAAACAAAA TGATATTTCCACCATTTATATTCTGACCAAAAACAGTTATTTAATTTGGAACAATGATG GTATACAGGGGAAGCTAGCAATAGTTTTAACAAAAAGCACATTCTATTTAACAAGTCC TCTATTTGGGTTCTAACTCAAAGCAGGCACAAAAACAACAGATTTCTCAAGCCAAA AGGGGGCAAAAGAAACATTTTTCACTTAACAAAATATATCCACCTATGGATGTACTAA CTTTCAGGGCTTTTTCGTTTTACCTTTATACATCCTTACAAAATACCTTTTGGCCCTAGG GAAAAAAAAAAAGGCGCCATTTTTGCGCGAGGTAACCCCTCCCCAACGGCCCCCTT TCTGCCCCACCCCGCAATCGGCCACCTGGCCTTCTCCCTCGTCCGCAACGCGCAAAA ACCCTCTGGCGGAACCTCCGCGGCTTGTGGGGCCACTTTTTACGAAAACAGGCCATGAG CCGTGCGAAAACCTCAACTGCGGACGGTGTGTGGGGCAACAATAACACGCGCGGAAAA GTTTGTGAACCCCGCCGCGACCTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000959
Insert Size:	5310 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_000959.2 , NP_000950.1
RefSeq Size:	3466 bp
RefSeq ORF:	1080 bp
Locus ID:	5737
UniProt ID:	P43088
Cytogenetics:	1p31.1
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (a).</p>