

Product datasheet for **SC309395**

PTGER3 (NM_198714) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTGER3 (NM_198714) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTGER3
Synonyms:	EP3; EP3-I; EP3-II; EP3-III; EP3-IV; EP3-VI; EP3e; Inc003875; PGE2-R
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_198714 edited
 AGGAAGGCGTGGCTCCCTCCCGGGCCAGTGAGCCCTGGCGCCGCGCGCGGTCCTCCCA
 GCAGCGGAGTAGGGCGGGCTGCGCCCCGACCATGGGGGGCAGCCAGCCCCAGCCGC
 GGTAAACGCCGACCTCCGCCCGCCCGCGCCGCTGCCCCCTCCCGCTGCGGCTCTC
 TGGACGCCATCCCCTCCTCACCTCGAAGCCAACATGAAGGAGACCCGGGGCTACGGAGGG
 GATGCCCCCTTGCACCCGCTCAACCACTACACAGGCATGTGGGCGCCGAGCGT
 TCCGCCGAGGCGGGGCAACCTCACGCGCCCTCAGGGTCTGGCGAGGATTGCGGATCG
 GTGTCCGTGGCCTTCCCGATCACCATGCTGCTCACTGGTTTCGTGGGCAACGCACTGGCC
 ATGCTGCTCGTGTGCGCAGCTACCGGCCCGGGAGAGCAAGCGCAAGAAGTCCTTCCTG
 CTGTGCATCGGCTGGCTGGCGCTCACCGACCTGGTCGGGCAGCTTCTACCACCCCGGTC
 GTCATCGTGTACCTGTCCAAGCAGCGTTGGGAGCACATCGACCCGTCGGGGCGGCTC
 TGCACCTTTTCGGGCTGACCATGACTGTTTTCGGGCTCTCCTCGTTGTTTCATCGCCAGC
 GCCATGGCCGTCGAGCGGGCGTGGCCATCAGGGCGCCGCACTGGTATGCGAGCCACATG
 AAGACGCGTGCCACCCGCTGTGCTGCTCGGCGTGTGGCTGGCCGTGCTCGCTTCGCC
 CTGCTGCCGGTGTGGGCGTGGGCCAGTACACCGTCCAGTGGCCCGGACGTGGTCTTC
 ATCAGCACCGGGCGAGGGGGCAACGGGACTAGCTTTCGCATAACTGGGGCAACCTTTTC
 TTCGCTCTGCCTTTGCCTTCCTGGGGCTCTTGGCGCTGACAGTCACTTTTCTGCAAC
 CTGGCCACCATTAAGGCCTGGTGTCCCGCTGCCGGGCAAGGCCACGGCATCTCAGTCC
 AGTGCCAGTGGGGCCGATCACGACCGAGACGGCCATTCAGCTTATGGGGATCATGTGC
 GTGCTGTGCGTGTGCTGGTCTCCGCTCCTGATAATGATGTTGAAAATGATCTTCAATCAG
 ACATCAGTTGAGCACTGCAAGACACACCGGAGAAGCAGAAAGATGCAACTTCTCTTA
 ATAGCTGTTCCCTGGCTTCACTGAACAGATCTTGGATCCTTGGGTTTACCTGCTGTTA
 AGAAAGATCCTTCTCGAAAGTTTTGCCAGATCAGGTACCACACAAACAATATGCATCC
 AGCTCCACCTCCTTACCCTGCCAGTGTCTCAACCTTGATGTGGAGCGACCATTTGGAA
 AGATGAGAAAAAAGACTCAGAGAGCAAGAGGAAATTTGGGAAATTAACCTGCCTT
 TCTGCCAGGATCACATCACTGGAAGCTCCATGACTCTCTTTTTGTAAAAGAAAAAAAAT
 CACAGAAACACCCACCTCCCAAATTTCTTTTACTTCTTCCCAAGCCACCCCA
 AATATACTGTTATCCAGAAGCTGTTATGCTGTTTCCATACATGTTTTGTACTTTTA
 CTATATCTACATACATCAATTAACCTTATGCTCTATTGTTTTGTGAATTTAAAAAAA
 AAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_198714

Insert Size: 1700 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_198714.1](#), [NP_942007.1](#)

RefSeq Size: 1936 bp

RefSeq ORF: 1173 bp

Locus ID: 5733

UniProt ID: [P43115](#)

Cytogenetics: 1p31.1

Protein Families: Druggable Genome, GPCR, Transcription Factors, Transmembrane

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

Gene Summary: The protein encoded by this gene is a member of the G-protein coupled receptor family. This protein is one of four receptors identified for prostaglandin E2 (PGE2). This receptor may have many biological functions, which involve digestion, nervous system, kidney reabsorption, and uterine contraction activities. Studies of the mouse counterpart suggest that this receptor may also mediate adrenocorticotrophic hormone response as well as fever generation in response to exogenous and endogenous stimuli. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009]
Transcript Variant: This variant (4) has multiple differences compared to variant 1. The resulting protein (isoform 4) has a distinct and shorter C-terminus, as compared to isoform 1. Transcript variants 4, 9 and 11 encode the same protein. Other names for variant 4 are EP3 subtype 1b, pEPR-1b, and EP3a1.