

Product datasheet for **RC211030**

PTGIS (NM_000961) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTGIS (NM_000961) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTGIS
Synonyms:	CYP8; CYP8A1; PGIS; PTGI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC211030 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTGGGCCGCTCCTCGGCCTCCTGGCCGACTGTTGCTGCTGCTACTGAGCCGCCGCCGA
 CGCGGCGACCTGGTGAGCCTCCCCTGGACTGGGCAGCATCCCCTGGTTGGGGTATGCCTTGGACTTTGG
 AAAAGATGCTGCCAGCTTCTCACGAGGATGAAGGAGAAGCACGGTGACATCTTTACTATACTGGTTGGG
 GGCAGGTATGTCACCGTTCTCCTGGACCCACACTCTACGACGCGGTGGTGTGGGAGCCTCGCACCAGGC
 TCGACTTCCATGCCTATGCCATTTCTCATGGAGAGGATTTTTGATGTGCAGCTTCCACATTACAGCCC
 CAGTGATGAAAAGGCCAGGATGAACTGACTTTCTCCACAGAGAGCTCCAGGCACTCACAGAAGCCATG
 TATACCAACTCCATGCAGTGTGTTGGCGATGCTACAGAAGCAGGCAGTGGCTGGCACGAGATGGGTC
 TCCTCGACTTCTCTACAGTTCCTGCTCAGAGCCGGCTACCTGACTCTTACGGAATTGAGGCGCTGCC
 ACGCACCCATGAAAGCCAGGCCAGGACCGCTCCACTCAGCTGATGTCTCCACACCTTCGCCAGCTC
 GACCGGCTGCTCCCCAACTGGCCCGTGGCTCCCTGTGAGTGGGGGACAAGGACCACATGTGCAGTGTCA
 AAAGTCGCTGTGGAAGCTGCTATCCCCAGCCAGGCTGGCCAGGCGGGCCACCGGAGCAATGGCTGGA
 GAGTTACCTGCTGCACCTGGAGGAGATGGGTGTGTGAGGAGATGCAGGCACGGGCCCTGGTGTGCGAG
 CTGTGGGCCACACAGGGGAATATGGGTCCCCTGCCTTCTGGCTCCTGCTCTTCTTCTCAAGAATCCTG
 AAGCCCTGGTGTGTCGCGGAGAGCTCGAGAGTATCCTTTGGCAAGCGGAGCAGCCTGTCTCGCAGAC
 GACCACTCTCCCACAGAAGGTTCTAGACAGCACACCTGTGCTTGTAGCGTGTGAGTGAAGCCCTCAGG
 CTTACAGCTGCCCTTTCATCACCCGCGAGGTTGGTGGACCTGGCCATGCCATGGCAGACGGGCGAG
 AATTCAACTGCGACGTGGTGACCGCTCCTCCTTCCCCTTCTGAGCCCCAGAGAGCCAGAAAT
 CTACACAGACCCAGAGGATTTAAATACAACCGATTCTGAACCCCTGACGGATCAGAGAAGAAAGACTTT
 TACAAGGATGGGAAACGCTGAAGAATTACAACATGCCCTGGGGGGCGGGGCACAATCACTGCCTGGGGA
 GGAGTTATGCGGTCAACAGCATCAAACAATTTGTGTTCTTGTGCTGGTGCACCTGGACTTGGAGCTGAT
 CAACGCAGATGTGGAGATCCCTGAGTTTACCTCAGCAGGTACGGCTTCGGTCTGATGCAGCCGGAACAC
 GACGTGCCCGTCCGCTACCGCATCCGCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211030 protein sequence
 Red=Cloning site Green=Tags(s)

MWAALLGLLAALLLLLLLRRRTRRPGEPLDLGSIPLWGYALDFGKDAASFLTRMKEKHGDIPTILVG
 GRYVTVLLDPHSYDAVVWEPRTRLDHFAYAIFLMERIFDVQLPHYSPSDEKARMKLTLLHRELQALTEAM
 YTNLHAVLLGDATEAGSGWHEMGLLDFSYFLLRAGYLTLYGIEALPRTHESQAQDRVHSADVHFTFRQL
 DRLLPKLARGSLSVGDKDHMCVKSRLWKLSPARLARRAHRKWLSEYLLHLEEMGVSEEMQARALVLQ
 LWATQGNMGPAAFWLLFLKNPEALAAVRGELESILWQAEQVVSQTTTLPQKVLVDSTPVLDSVLSLSESLR
 LTAAPFITREVVVDLAMPADGREFNLRGDRLLLFPFLSPQRDPEIYTDPEVFKYRFLNPDGSEKKDF
 YKDGKRLKNYNMPWGAGHNHCLGRSYAVNSIKQFVFLVLVHLDLELINADVEIPEFDLSRYGFGLMQPEH
 DVPVRYRIRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6009_f05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_000961

ORF Size: 1500 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_000961.4](#)

RefSeq Size: 5603 bp

RefSeq ORF: 1503 bp

Locus ID: 5740

UniProt ID: [Q16647](#)

Cytogenetics: 20q13.13

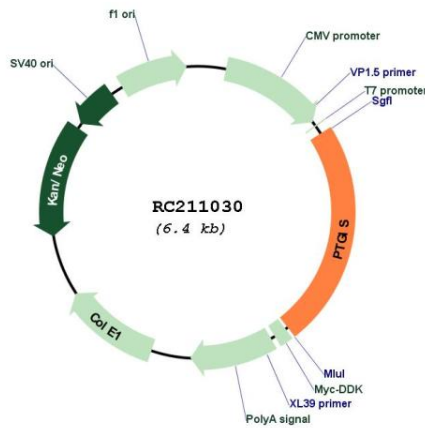
Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

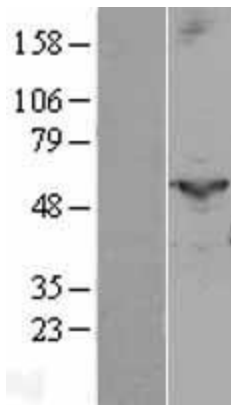
MW: 57.1 kDa

Gene Summary: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. However, this protein is considered a member of the cytochrome P450 superfamily on the basis of sequence similarity rather than functional similarity. This endoplasmic reticulum membrane protein catalyzes the conversion of prostglandin H2 to prostacyclin (prostaglandin I2), a potent vasodilator and inhibitor of platelet aggregation. An imbalance of prostacyclin and its physiological antagonist thromboxane A2 contribute to the development of myocardial infarction, stroke, and atherosclerosis. [provided by RefSeq, Jul 2008]

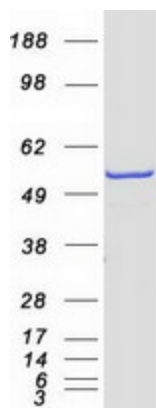
Product images:



Circular map for RC211030



Western blot validation of overexpression lysate (Cat# [LY400347]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211030 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PTGIS protein (Cat# [TP311030]). The protein was produced from HEK293T cells transfected with PTGIS cDNA clone (Cat# RC211030) using MegaTran 2.0 (Cat# [TT210002]).