

Product datasheet for **SC123875**

PTGIS (NM_000961) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTGIS (NM_000961) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTGIS
Synonyms:	CYP8; CYP8A1; PGIS; PTGI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC123875 sequence for NM_000961 edited (data generated by NextGen Sequencing)

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ATGGCTTGGGCCGCGCTCCTCGGCCTCCTGGCCGCACTGTTGCTGCTGCTACTGAGC
CGCCGCCGACGCGGGCGACTGGTGAGCCTCCCCTGGACCTGGGCAGCATCCCCTGGTTG
GGGTATGCCTTGGACTTTGAAAAAGATGCTGCCAGCTTCTCACGAGGATGAAGGAGAAG
CACGGTGACATCTTTACTATACTGGTTGGGGCAGGTATGTCACCGTTCTCCTGGACCCA
CACTCCTACGACGCGGTGGTGTGGGAGCCTCGCACCAGGCTCGACTTCCATGCCTATGCA
ATCTTCTCATGGAGAGATTTTTGATGTGCAGCTTCCACATTACAGCCCCAGTGATGAA
AAGGCCAGGATGAACTGACTTCTCCACAGAGACTCCAGGCACTCACAGAAGCCATG
TATACCAACCTCCATGCAGTGCTGTTGGGCGATGCTACAGAAGCAGGCAGTGGCTGGCAC
GAGATGGGTCTCCTCGACTTCTCCTACAGCTTCTGCTCAGAGCCGGCTACCTGACTCTT
TACGGAATTGAGGCGCTGCCACGCACCCATGAAAGCCAGGCCAGGACCGCTCCACTCA
GCTGATGTCTTCCACACCTTTCGCCAGCTCGACCGGCTGCTCCCCAACTGGCCCGTGGC
TCCCTGTCAGTGGGGACAAGGACCACATGTGCAGTGTCAAAAGTCGCCTGTGGAAGCTG
CTATCCCAGCCAGGCTGGCCAGGCGGGCCACCAGGACAAATGGCTGGAGAGTTACCTG
CTGCACCTGGAGGAGATGGGTGTGTGAGAGGAGATGCAGGCACGGGCCCTGGTGTGCAG
CTGTGGGCCACACAGGGGAATATGGGTCCCCTGCCTTCTGGCTCCTGCTCTTCTTCTC
AAGAATCTGAAGCCCTGGCTGCTGTCCGCGGAGACTCGAGAGTATCCTTTGGCAAGCG
GAGCAGCTGTCTCGCAGACGACCACTCTCCACAGAAGGTTCTAGACAGCACACCTGTG
CTTGATAGCGTGTGAGTGAGAGCCTCAGGCTTACAGTGCCTTTCATCACCCTGGAG
GTTGTGGTGGACTGGCCATGCCATGGCAGACGGGCGAGAATCAACCTGCGACGTGGT
GACCGCTCCTCCTTCCCTTCTGAGCCCCAGAGAGACCCAGAAATCTACACAGAC
CCAGAGTATTTAAATACAACCGATTCTGAACCCTGACGGATCAGAGAAGAAAGACTTT
TACAAGGATGGGAACCGCTGAAGAATTACAACATGCCCTGGGGGCGGGGCACAATCAC
TGCTGGGGAGGAGTTATGCGGTCAACAGCATCAAACAATTTGTGTTCTTGTGCTGGT
CACTTGGACTTGGAGCTGATCAACGCAGATGTGGAGATCCCTGAGTTTGACCTCAGCAGG
TACGGCTTCGGTCTGATGCAGCCGAACACGACGTGCCCGTCCGCTACCGCATCCGCCCA
TGA
    
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Clone variation with respect to NM_000961.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000961 unedited
TCAGAATTTGTATACGACTCACTATAGGGCGGCCGCAATTCGCACGAGGCCCGCCAGC
CCCCCAGCCCCGCGATGGCTTGGGCGCGCTCCTCGGCCTCCTGGCCGCACTGTTGCTG
CTGCTGCTACTGAGCCCGCCGCGCAGCGGGCGACTGGTGAGCCTCCCCTGGACCTGGGC
AGCATCCCCTGGTTGGGTATGCCTTGGACTTTGAAAAAGATGCTGCCAGCTTCTCACG
AGGATGAAGGAGAAGCACGGTGACATCTTTACTATACTGGTTGGGGCAGGTATGTCACC
GTTCTCCTGGACCACACTCCTACGACGCGGTGGTGTGGGAGCCTCGCACCAGGCTCGAC
TTCCATGCCTATGCCATTTCTCATGGAGAGGATTTTTGATGTGCAGCTTCCACATTAC
AGCCCCAGTGATGAAAAGGCCAGGATGAACTGACTTCTCCACAGAGACTCCAGGCA
CTCACAGAAGCCATGTATACCAACCTCCATGCAGTGCTGTTGGGCGATGCTACAGAAGCA
GGCAGTGGCTGGCAGGATGGGTCTCCTCGACTTCTCCTACAGCTTCTGCTCAGAGCC
GGCTACCTGACTTTTACGGAATTGAGGCGCTGCCACGCACCCATGAAAGCCAGGCCAG
GACCGCTCCACTCAGCTGATGTCTTCCACACCTTTCGCCAGCTCGACCGGCTGCTCCCC
AACTGGCCCGTGGCTCCCTGTGCTAGTGGGGACAAGACCACATGTGCAGTGTCAAAAGTC
GCCTGTGGAAGCTGCTATCCCCAGCCAGGCTGCCAGGCGGGCCACGGAACCAAAATGGTG
GAGAAGTACCCGCTGCACCTGGAGGAAATGGGGGTGTCAAAAGAGATGCAAGCACGGGCC
CTGGTGTGCACCTTGGGAGCACAAAGGGAAAA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000961 unedited GCACGTCGTGTTCCGGCTGCATCAGACCGAAGCCGTACCTGCTGAGGTCAAACCTCAGGGA TCTCCACATCTGCGTTGATCAGCTCCAAGTCCAAGTGCACCAGCACAAAGGAACACAAATT GTTTGTGCTGTTGACCGCATAACTCCTCCCCAGGCAGTGATTGTGCCCCGCCCCCAGG GCATGTTGTAATTCTTCAGCCGTTTCCCATCCTTGTAAGTCTTTCTTCTGATCCGT CAGGGTTCAGGAATCGGTTGTATTAAATACCTCTGGGTCTGTGTAGATTCTGGGTCTC TCTGGGGCTCAGGAAGGGGAAGAGAGGAGGCGGTACCACGTGCAGGTTGAATTCTC GCCCGTCTGCCATGGGCATGGCCAGGTCCACCACAACCTCGCGGTGATGAAGGGGGCAG CTGTAAGCCTGAGGCTCTCACTCAGCACGCTATCAAGCACAGGTGTGCTGTCTAGAACCT TCTGTGGGAGAGTGGTCGTCTGCGAGACAGGCTGCTCCGTTGCCAAAGGATACTCTCGA GCTCTCCGCGGACAGCAGCCAGGGCTTCAGGATTCTTGAGAAGGAAGAGCAGGAGCCAGA AAGCAGCGGGACCCATATCCCCTGTGTGGCCACAGCTGCAGCACCCAGGGCCCGTGCCT GCATCTCTCTGACACACCCATCTCCTCCAGGTGCAGCAGGTAACCTCTCCAGCCATTGCT TCCGGTGGGCCCGCTGGCN
Restriction Sites:	NotI-NotI
ACCN:	NM_000961
Insert Size:	3700 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_000961.3 , NP_000952.1
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

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]