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Product datasheet for SC333038

PTGS1 (NM_001271165) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: PTGS1 (NM_001271165) Human Untagged Clone

Tag: Tag Free

Symbol: PTGS1

Synonyms: COX1; COX3; PCOX1; PES-1; PGG/HS; PGHS-1; PGHS1; PHS1; PTGHS

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC333038 representing NM_001271165.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGCTCATGCGCCTGGTACTCACAGTGCGCTCCAACCTTATCCCCAGTCCCCCCACCTACAACTCAGCA
CATGACTACATCAGCTGGGAGTCTTTCTCCAACGTGAGCTATTACACTCGTATTCTGCCCTCTGTGCCT
AAAGATTGCCCCACACCCATGGGAACCAAAGGGAAGAAGCAGTTGCCAGATGCCCAGCTCCTGGCCCGC
CGCTTCCTGCTCAGGAGGAAGTTCATACCTGACCCCCAAGGCACCAACCTCATGTTTGCCTTCTTTGCA
CAACACTTCACCCACCAGTTCTTCAAAACTTCTGGCAAGATGGGTCCTGGCTTCACCAAGGCCTTGGGC
CATGGGGTAGACCTCGGCCACATTTATGGAGACAATCTGGAGCGTCAGTATCAACTGCGGCTCTTTAAG
GATGGGAAACTCAAGTACCAGGTGCTGGATGGAGAAATGTACCCGCCCTCGGTAGAAGAGGCGCCTGTG
TTGATGCACTACCCCCGAGGCATCCCGCCCCAGAGCCAGATGGCTGTGGGCCAGGAGGTGTTTGGGCTG
CTTCCTGGGCTCATGCTGTATGCCACGCTCTGGCTACGTGAGCACAACCGTGTGTGTGACCTGCTGAAG
GCTGAGCACCCCACCTGGGGCGATGAGCAGCTTTTCCAGACGACCCGCCTCATCCTCATAGGGGAGACC
ATCAAGATTGTCATCGAGGAGTACGTGCAGCAGCTGAGTGGCTATTTCCTGCAGCTGAAATTTGACCCA
GAGCTGCTGTTCGGTGTCCAGTTCCAATACCGCAACCGCATTGCCATGGAGTTCAACCATCTCTACCAC
TGGCACCCCCTCATGCCTGACTCCTTCAAGGTGGGCTCCCAGGAGTACAGCTACGAGCAGTTCTTGTTC
AACACCTCCATGTTGGTGGACTATGGGGTTGAGGCCCTGGTGGATGCCTTCTCTCGCCAGATTGCTGGC
CGGATCGGTGGGGGCAGGAACATGGACCACCACATCCTGCATGTGGCTGTGGATGTCATCAGGGAGTCT
CGGGAGATGCGGCTGCAGCCCTTCAATGAGTACCGCAAGAGGTTTGGCATGAAACCCTACACCTCCTTC
CAGGAGCTCGTAGGAGAGAAGGAGATGGCAGCAGAGTTGGAGGAATTGTATGGAGACATTGATGCGTTG
GAGTTCTACCCTGGACTGCTTCTTGAAAAGTGCCATCCAAACTCTATCTTTGGGGAGAGTATGATAGAG
ATTGGGGCTCCCTTTTCCCTCAAGGGTCTCCTAGGGAATCCCATCTGTTCTCCGGAGTACTGGAAGCCG
AGCACATTTGGCGGCGAGGTGGGCTTTAACATTGTCAAGACGGCCACACTGAAGAAGCTGGTCTGCCTC
AACACCAAGACCTGTCCCTACGTTTCCTTCCGTGTGCCGGATGCCAGTCAGGATGATGGGCCTGCTGTG
GAGCGACCATCCACAGAGCTCTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001271165

Insert Size: 1473 bp

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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:	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_001271165.1
RefSeq Size:	4994 bp
RefSeq ORF:	1473 bp
Locus ID:	5742
UniProt ID:	P23219
Cytogenetics:	9q33.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways
MW:	56.1 kDa
Gene Summary:	This is one of two genes encoding similar enzymes that catalyze the conversion of arachinodate to prostaglandin. The encoded protein regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. Based on its ability to function as both a cyclooxygenase and as a peroxidase, the encoded protein has been identified as a moonlighting protein. The protein may promote cell proliferation during tumor progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014] Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate downstream in-frame start site, compared to variant 1. The encoded isoform (4) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.