

## Product datasheet for **SC111665**

### PDGF beta (PDGFB) (NM\_002608) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PDGF beta (PDGFB) (NM_002608) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDGF beta
Synonyms:	c-sis; IBGC5; PDGF-2; PDGF2; SIS; SSV
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111665 sequence for NM_002608 edited (data generated by NextGen Sequencing)

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ATGAATCGCTGCTGGGCGCTCTTCTGTCTCTGCTGCTACCTGCGTCTGGTCAGCGCC
GAGGGGGACCCCAATTCCCGAGGAGCTTTATGAGATGCTGAGTGACCACTCGATCCGCTCC
TTTGATGATCTCCAACGCTGCTGCACGGAGACCCCGAGAGGAAGATGGGGCCGAGTTG
GACCTGAACATGACCCGCTCCCACTCTGGAGGCGAGCTGGAGAGCTTGGCTCGTGAAGA
AGGAGCCTGGGTTCCCTGACCATTGCTGAGCCGGCCATGATCGCCGAGTGCAAGACGCGC
ACCGAGGTGTTTCGAGATCTCCCGGCGCCTCATAGACCGCACCAACGCCAACTTCTGGTG
TGGCCGCCCTGTGTGGAGGTGCAGCGCTGCTCCGGCTGCTGCAACAACCGCAACGTGCAG
TGCCGCCCCACCCAGGTGCAGCTGCGACCTGTCCAGGTGAGAAAAGATCGAGATTGTCCG
AAGAAGCCAATCTTTAAGAAGGCCACGGTGACGCTGGAAGACCACCTGGCATGCAAGTGT
GAGACAGTGGCAGCTGCACGGCCTGTGACCCGAAGCCCGGGGGTTCACAGGAGCAGCGA
GCCAAAACGCCCCAACTCGGGTGACCATTCGGACGGTGCGAGTCCGCCGCCCCCAAG
GGCAAGCACCGGAAATCAAGCACACGCATGACAAGACGGCACTGAAGGAGACCTTGGGA
GCCTAG
```

Clone variation with respect to NM\_002608.2



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002608 unedited  
 NGGGTAATACCCCGCCCGTTGNCGCATAGGGCGGTAGGCGTGTACGGTGGGAGGTCTAT  
 ATAAGCAGAGCTCATTTAGGTGACACTATAAGAACAAGCTACTTGTCTTTTTGACGCG  
 GCCGGAATTCGGCACGAGGGCGGACCCGAGCCGAGCCCACCCCTCCCGACCCCCCA  
 CCCTGGCCGCGGGGGCGCGCTCGATCTACGCGTCCGGGGCCCGGGGGCCGGGGCC  
 GGAGTCGGCATGAATCGCTGCTGGGCGCTTCTCTGTCTCTGTCTACCTGCGTCTG  
 GTCAGCGCCGAGGGGGACCCCATTCGCCGAGGAGCTTTATGAGATGCTGAGTGACCACTCG  
 ATCCGCTCCTTTGATGATCTCCAACGCCTGCTGCACGGAGACCCCGAGAGGAAGATGGG  
 GCCGAGTTGGACCTGAACATGACCCGCTCCCACTCTGGAGGCGAGCTGGAGAGCTTGGCT  
 CGTGGAAGAAGGAGCCTGGGTTCCCTGACCATTGCTGAGCCGGCCATGATCGCCGAGTGC  
 AAGACGCGCACCGAGGTGTTGAGATCTCCCGCGCCTCATAGACCGACCAACGCCAAC  
 TTCCTGGTGTGGCCGCTGTGTGGAGGTGCAGCGCTGCTCCGGCTGCTGCAACAACCGC  
 AACGTGCAGTGCCGCCCCACCCAGGTGCAGCTGCGACCTGTCAGGTGAGAAAGATCGAG  
 ATTGTGCGGAAGAAGCCAATCTTAAGAAGGCCACGGTGACGCTGGAAGACCACCTGGNC  
 ATGCAGTGTGAGACAGTGCAGCTGCACGGCCTGTGACCCGAGCCCGNGGGGTCCAGG  
 ACAGCGAGCCAAACGCCCAACTCGGTGACCATTGACGGTGGAGTCCGCCGGCCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002608 unedited  
 NGGGAATACTATGTACCCGCGCATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTCCGGCGATTCAATTTGGTTTTGTTTTGGGTTATTTTTTTTT  
 ACAACTTTAAATACGGAATATAAATAAATTTTACATTTAAAAAATAAAAGGAAAGCCCC  
 AAAAATAAATACCCGACTTTACAACTGAAGGAAGCAGGTTTTTAAAGCGGGAAGGGG  
 GAAAGTGCAGTAGGTGGGAAGGGAGGTGGGAGCTCAAATCCCACCCAGGGGGTCTTGGG  
 GATCTTTTCCCTTTTTTCCCCATTCCCAGCCACGAGCTGGTTTCTAGGAGGACCCAC  
 CAGAGGTGGAGCTCAAAAGGATCAAGATGGGGAAGTGTGCAAGCAGGGAGGGGTGCGGG  
 CAAAAAGGCTGCACCCTCCCTTGGAGACCTTCTCCAGGTGTCCACACCCACCTGGAAG  
 GGCAGTTGCTGGAGCAAAGGACTTTGGGAAATGGAGGTGATGTGGACAGCAGTGTGCT  
 CCCTGCCCTACCACAGTCTCCCTCCTATTTGGCCACTCCAAGCCACAGGCTGGATCAGG  
 GGCACAGCCCGTCCACAAGGAGTCTTTGTGTGAATTAAGAAAAGGATCCTTTTCTCTTT  
 ACCTACATCTGCCAGAAAATGGCATAATAAATATACAAATCAGCTTTATTTATGATGTTG  
 ACAGTGGCTCCCTGGATACAAAGTCTTGGGGAGTACACACCCTGGACAAACTTACATGGG  
 AATCGTGGTGGTTGGAATATAAAGAGGAAGTCCCTTGTGCTGGCCTCTTATTTTTT  
 TGCCCTAAAAAGGAAGGCTGGGATCCATTGGGGCCTTAAAAAGGGTCAAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002608

**Insert Size:**

2800 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_002608.1, NP_002599.1</u>
<b>RefSeq Size:</b>	3373 bp
<b>RefSeq ORF:</b>	726 bp
<b>Locus ID:</b>	5155
<b>UniProt ID:</b>	<u>P01127</u>
<b>Cytogenetics:</b>	22q13.1
<b>Domains:</b>	PDGF, PDGF_N
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma
<b>Gene Summary:</b>	<p>This gene encodes a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). The encoded preproprotein is proteolytically processed to generate platelet-derived growth factor subunit B, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit A. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 17, at sites where this gene and that for collagen type 1, alpha 1 are located, are associated with dermatofibrosarcoma protuberans, a rare skin tumor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1), which contains a signal peptide.</p>