

## Product datasheet for **MG202972**

### **Pdgfb (NM\_011057) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pdgfb (NM\_011057) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Pdgfb  
**Synonyms:** PDGF-B; Sis  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202972 representing NM\_011057  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATCGCTGCTGGGCGCTCTTCCTTCTCTGCTGCTACCTGCGTCTGGTCAGCGCCGAGGGGATC  
CCATTCTGAGGAACTGTATGAAATGCTGAGCGACCACTCCATCCGCTCCTTTGATGATCTTCAGCGCT  
GCTGCACAGAGACTCCGTAGATGAAGATGGGGCTGAGCTGGACTTGAACATGACCCGAGCACACTCCGGA  
GTCGAGTTGAAAAGCTCATCTCGAGGGAGGAGGCCATAGGGTCCCTGGCAGCAGCAGAGCCTGCTGTAA  
TCGCCGAGTGCAAGACGCGCACAGAGGTGTTCCAGATCTCTCGAACCTCATCGATCGCACCAACGCCAA  
CTTCTGGTGTGGCCGCCCTGTGTGGAGGTGCAGCGCTGCTCCGGCTGCTGCAATAACCGCAATGTGCAA  
TGCCGGGCTCGCAGGTGCAGATGCGGGCCGGTCCAGGTGAGAAAGATTGAGATTGTGCGAAAAGCCCA  
TCTTCAAGAAGGCCACAGTGACCTTGGAGGACCACCTCGCTGCAAGTGTGAGACAGTAGTGACCCCTCG  
GCCTGTGACTAGAAGTCTGGGACATCCAGGGAGCAGCGAGCCAAGACGCCTCAAGCTCGGGTGACCATT  
CGGACGGTGAGAAATCCGCCGGCCCCAAAGGCAAGCACCGAAAGTTTAAGCACACCCATGACAAGGCGG  
CCCTGAAGGAGACCTCGGAGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202972 representing NM\_011057  
 Red=Cloning site Green=Tags(s)

MNRCWALFLPLCCYLRLVSAEGDPIPEELYEMLSDHSIRSFDLQRLHRDSVDEDGAELDLNMTRAHSG  
 VELESSSRGRRSLGSLAAEPAVIAECKTRTEVFQISRNLIDRTNANFLVWPPCEVQRCSCCNRNVQ  
 CRASQVQMRPVQVRKIEIVRKKPIFKKATVTLEDHLACKCETVTPRPVTRSPGTSREQRAKTPQARVTI  
 RTVIRIRPPKGRKFKHFKHDKAALKETLGA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_011057

**ORF Size:** 723 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\\_011057.4](#)

**RefSeq Size:** 2956 bp

**RefSeq ORF:** 726 bp

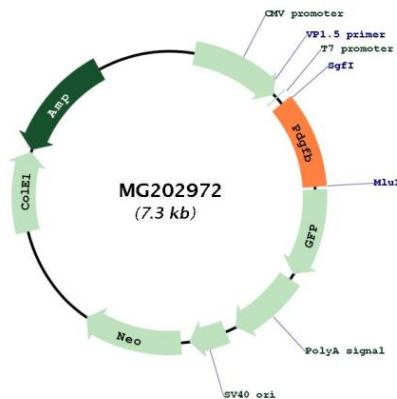
**Locus ID:** 18591

**UniProt ID:** [P31240](#)

**Cytogenetics:** 15 37.85 cM

**Gene Summary:** Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin. Required for normal proliferation and recruitment of pericytes and vascular smooth muscle cells in the central nervous system, skin, lung, heart and placenta. Required for normal blood vessel development, and for normal development of kidney glomeruli. Plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFA.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG202972