

## Product datasheet for **MG205185**

### **Pdgfc (NM\_019971) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pdgfc (NM\_019971) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Pdgfc  
**Synonyms:** 1110064L01Rik; AI647969; PDGF-C  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG205185 representing NM\_019971  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTCCTCCTCGGCCTCCTCCTGCTGACATCTGCCCTGGCCGGCCAAAGAACGGGGACTCGGGCTGAGT  
 CCAACCTGAGCAGCAAGTTGCAGCTCTCCAGCGACAAGGAGCAGAACGGAGTGCAAGATCCCCGGCATGA  
 GAGAGTTGTCACATATCTGGTAATGGGAGCATCCACAGCCGAAGTTTCTCATACATACCAAGAAAT  
 ATGGTGTGGTGTGGAGATTAGTTGCAGTAGATGAAAATGTGCGGATCCAGCTGACATTTGATGAGAGAT  
 TTGGGCTGGAAGATCCAGAAGACGATCTATGCAAGTATGATTTTGTAGAAGTTGAGGAGCCAGTGATGG  
 AAGTGTTTTAGGACGCTGGTGTGGTTCTGGGACTGTGCCAGGAAAGCAGACGTCTAAAGGAAATCATATC  
 AGGATAAGATTTGTATCTGATGAGTATTTCCATCTGAACCCGGATTCTGCATCCACTACAGTATTATCA  
 TGCCACAAGTCACAGAAACCACGAGTCCTTCGGTGTGGCCCTTCATCTTTGTCATTGGACCTGCCTCAA  
 CAACGCTGTGACTGCCTTCAGTACCTTGAAGAGCTGATTCGGTACCTAGAGCCAGATCGATGGCAGGTG  
 GACTTGGACAGCCTCTACAAGCCAACATGGCAGCTTTTGGCAAGGCTTTCCTGTATGGGAAAAAAGCA  
 AAGTGGTGAATCTGAATCTCCTAAAGGAAGAGGTAACACTCTACAGCTGCACACCCCGGAAGTCTCAGT  
 GTCCATACGGGAAGAGCTAAAGAGGACAGATACCATATTCTGGCCAGGTTGTCTCCTGGTCAAGCGCTGT  
 GGAGGAAATTGTGCTGTTGTCTCCATAATTGCAATGAATGTCAGTGTGCCACGTAAGTTACAAAAA  
 AGTACCATGAGGTCCTTCAGTTGAGACCAAAAACTGGAGTCAAGGGATTGCATAAGTCACTCACTGATGT  
 GGCTCTGGAACACCACGAGGAATGTGACTGTGTGTGTAGAGGAAACCGAGGAGGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205185 representing NM\_019971  
 Red=Cloning site Green=Tags(s)

MLLLGLLLLSALAGQRTGTRAESNLSSKLQLSSDKEQNGVQDPRHERVVTISGNGSIHSPKFPHTYPRN  
 MVLVWRLVAVDENVRIQLTFDERFGLDPEDDLCKYDFVEVEEPSDGSVLGRWCGSGTVPKGQTSKGNHI  
 RIRFVSDEYFPSEPGFCIHYSIIMPQVTETTPSVLPPSSLSDLLNNAVAFSTLEELIRYLEPDRWQV  
 DLDSLKPTWQLLGFALYGGKSKVVNLLKKEEVKLYSCTPRNFSVSIREELEKRTDITFWPGCLLVKRC  
 GGNACCLHNCNECQCVPKRVTKKYHEVLQLRPKTVKGLHKS LTDVALEHHEECDCVCRGNAGG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_019971

**ORF Size:** 1035 bp

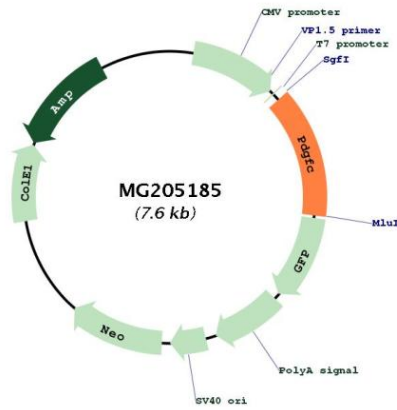
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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_019971.2, NP_064355.1</u>
<b>RefSeq Size:</b>	3512 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	54635
<b>UniProt ID:</b>	<u>Q8CI19</u>
<b>Cytogenetics:</b>	3 E3
<b>Gene Summary:</b>	Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen and chemoattractant for cells of mesenchymal origin. Required for normal skeleton formation during embryonic development, especially for normal development of the craniofacial skeleton and for normal development of the palate. Required for normal skin morphogenesis during embryonic development. Plays an important role in wound healing, where it appears to be involved in three stages: inflammation, proliferation and remodeling. Plays an important role in angiogenesis and blood vessel development. Involved in fibrotic processes, in which transformation of interstitial fibroblasts into myofibroblasts plus collagen deposition occurs. The CUB domain has mitogenic activity in coronary artery smooth muscle cells, suggesting a role beyond the maintenance of the latency of the PDGF domain. In the nucleus, PDGFC seems to have additional function.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205185