

Product datasheet for **MR205185**

Pdgfc (NM_019971) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdgfc (NM_019971) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdgfc
Synonyms:	1110064L01Rik; AI647969; PDGF-C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205185 representing NM_019971 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCTCCTCCTCGGCCTCCTCCTGCTGACATCTGCCCTGGCCGGCCAAAGAACGGGGACTCGGGCTGAGT
CCAACCTGAGCAGCAAGTTGCAGCTCTCCAGCGACAAGGAACAGAACGGAGTGCAAGATCCCCGGCATGA
GAGAGTTGTCACTATATCTGGTAATGGGAGCATCCACAGCCGAAGTTTCTCATACATACCCAAGAAAT
ATGGTGTGGTGTGGAGATTAGTTGCAGTAGATGAAAATGTGCGGATCCAGCTGACATTTGATGAGAGAT
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AAGTGTTTTAGGACGCTGGTGTGGTTCTGGGACTGTGCCAGGAAAGCAGACTTCTAAAGGAAATCATATC
AGGATAAGATTTGTATCTGATGAGTATTTTCCATCTGAACCCGGATTCTGCATCCACTACAGTATTATCA
TGCCACAAGTCACAGAAACACGAGTCCTTCGGTGTGGCCCTTCATCTTTGTCATTGGACCTGCTCAA
CAATGCTGTGACTGCCTTCAGTACCTTGAAGAGCTGATTCGGTACCTAGAGCCAGATCGATGGCAGGTG
GACTTGGACAGCCTCTACAAGCCAACATGGCAGCTTTGGGCAAGGCTTTCCTGTATGGGAAAAAAGCA
AAGTGGTGAATCTGAATCTCCTCAAGGAAGAGGTAAACTCTACAGCTGCACACCCCGGAAGTTCTCAGT
GTCCATACGGGAAGAGCTAAAGAGGACAGATACCATATTCTGGCCAGGTTGTCTCCTGGTCAAGCGCTGT
GGAGGAAATTGTGCTGTTGTCTCCATAATTGCAATGAATGTGAGTGTGTCCACGTAAAGTTACAAAAA
AGTACCATGAGGTCCTTCAGTTGAGACCAAACTGGAGTCAAGGATTGCATAAGTCACTCACTGATGT
GGCTCTGGAACACCACGAGGAATGTGACTGTGTGTGTAGAGGAAACGCAGGAGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205185 representing NM_019971
 Red=Cloning site Green=Tags(s)

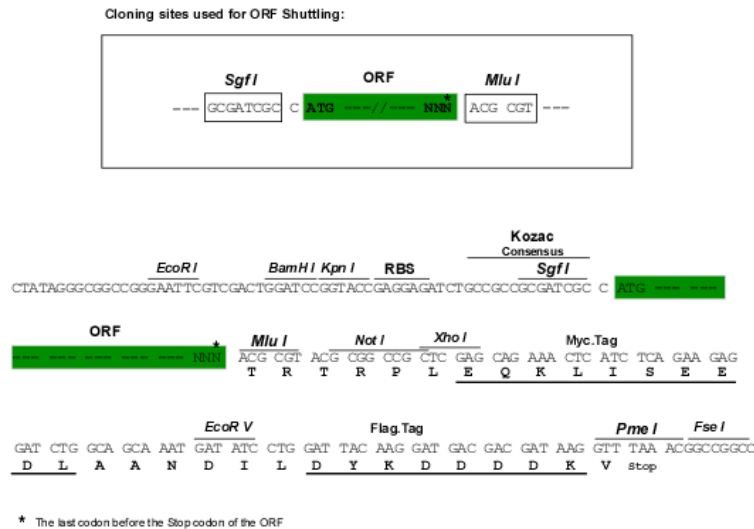
MLLLGLLLLT SALAGQRTGT RAESNLSSKLQLSSDKEQNGVQDPRHERVVTISGNGSIHSPKFPHTYPRN
 MVLVWRLVAVDENVRIQLTFDERFGLDPEDDICKYDFVEVEEPSDGSVLGRWCGSGTVPKGQTSKGNHI
 RIRFVSDEYFPSEPGFCIHYSIIMPQVTETTPSVLPSSLSDLLNNAVAFSTLEELIRYLEPDRWQV
 DLDSLKYPTWQLLGKAFLYGKSKVNNLNLKEEVKLYSCTPRNFSVSIREELKRTDTIFWPGCLLVKRC
 GGNACCLHNCNECQCVPKVTKKYHEVLQLRPKTGVKGLHKS LTDVALEHHEECDCVCRGNAGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9042_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019971

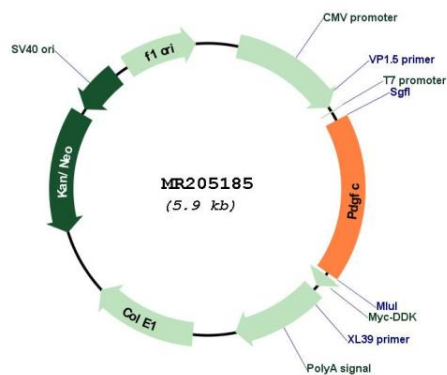
ORF Size: 1035 bp

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 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.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_019971.3</u>
RefSeq Size:	3512 bp
RefSeq ORF:	1038 bp
Locus ID:	54635
UniProt ID:	<u>Q8CI19</u>
Cytogenetics:	3 E3
MW:	39.2 kDa
Gene Summary:	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 MR205185