

## Product datasheet for MC223499

### Pdgfra (NM\_001083316) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pdgfra (NM_001083316) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pdgfra
Synonyms:	A115593; CD140; CD140a; Pdgfr; Pdgfr-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223499 representing NM_001083316 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGACCTCCCACCAGGTCTTTCTGGTCTCAGCTGTCTCCTCACAGGGCCGGGCTCATCTCTGCC  
AGCTCTTATTACCCTCTATCCTCCCAAACGAGAATGAGAAGATTGTGCAGCTGAATTCGCTTTTCTCT  
GAGATGCGTTGGGAGAGTGAAGTGAGCTGGCAGCACCCCATGTCTGAAGAAGACGACCCCAACGTGGAA  
ATCAGAAGTGAGGAGAACAACAGTGGCCTCTTTGTACAGTGTGGAAGTGGTTAACGCCTCCGAGCC  
ACACCGGATGGTACACTTGCTACTACAACCACACTCAGACGGATGAGAGTGAGATCGAAGGCAGGCACAT  
TTACATCTATGTACCAGACCCAGACATGGCCTTTGTGCCCTCTCGGGATGACCGATTCCCTTAGTCATCGTG  
GAAGAGGATGACTCTGCCATCATACCTTGCCGACCCACAGATCCGGAGACTCAAGTAACCTTGCACAATA  
ACGGGAGGCTGGTGCCTCCTATGACAGCAGGCAGGGCTTCAACGGAACCTTACGCGTGGGGCTTA  
CATCTGTGAGGCCACCGTCAAAGGGAGGACGTTCAAGACCAGCGAGTTTAAATGTTTATGCCTTGAAGCA  
ACGTCAGAAGTGAATCTGGAGATGGACGCACGCCAGACTGTGTATAAGGCAGGAGAAACGATCGTGGTGA  
CCTGTGCCGTCTTAAACAACGAGGTCGTTGACCTGCAGTGGACTACCCTGGAGAAGTGAGAAACAAGG  
TATCACCATGCTGGAGGAGATCAAACCCATCCATCAAACCTGGTGTACACTTTGACCGTCCCAAGGCC  
ACGGTGAAGGACAGTGGAGAGTATGAATGTCTGCCGTCAGGCCACTAAAGAGGTCAAGGAAATGAAGA  
GAGTCACCATTTCTGTCCACGAGAAAGGCTTCGTCGAGATTGAGCCACCTTTGGCCAGCTGGAAGCTGT  
CAACTTGACGAAGTCAGAGAGTTCGTGGTGGAGTGCAGGCCTACCCGACGCCAGGATATCGTGGCTG  
AAGGACAACCTTGACTCTGATAGAGAATCTCACCGAGATCACCACTGATGTACAGAAGAGTCAGGAAACAA  
GGTATCAGAGCAAATTAAGCTGATCCGGGCTAAGGAAGAAGACAGTGGCCATTACACCATTATAGTTCA  
AAATGAGGATGACGTGAAGAGTTACACGTTTGTGCTGCAACCCAGTTCCTGCATCCATTTTGGATCTC  
GTAGATGACCACCATGGCTCTGGCGGGGACAGACTGTGAGGTGTACAGCCGAAGGCACCCCTCTCCAG  
AAATCGACTGGATGATCTGCAAGCATATTAAGAAATGTAATAATGACACTTCGTGGACAGTTTTGGCCAG  
CAATGTCTCAAATATTATCACAGAGCTCCCTCGCCGTGGCAGGAGTACCGTGGAGGGACGAGTGTCTTC



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GCCAAAGTGAAGAGACCATCGCAGTTCGATGCCTGGCAAAGAACAACCTCAGCGTTGTGGCCCGTGAGC
TGAAGCTGGTGGCTCCCCTCTGCGATCTGAACCTCACAGTGGCGGCCGAGTGTGGTGCTGTTGGTGAT
TGTCATTGTCTCTCATCGTCTGGTGGTCATTTGGAAGCAGAAACCACGGTATGAAATTCGCTGGAGG
GTTATCGAGTCAATCAGCCCCGATGGACATGAGTATATCTATGTGGACCCATGCAGTTGCCTTACGACT
CCAGATGGGAATCCCGAGAGATGGCCTCGTGTGGTGGGATTTGGGATCCGGTGCATTTGGGAAAGT
GGTCGAAGGTACAGCTTATGGATTAAGCCGGTCCCAACCTGTAAATGAAGTGGCTGTGAAGATGCTCAA
CCCACAGCCAGGTCTAGTGAAAAGCAGGCTCTCATGTCTGAGCTGAAGATAATGACTCACATCACAGAATACTG
ATTTGAACATTTGAACTTGCTGGGAGCCTGCACCAAGTCAGGTCCCATTACATCATCACAGAATACTG
CTTCTATGGGGATTTGGTCAACTACTTGCATAAGAACAGAGATAGCTTCATGAGCCAACACCCAGAGAAG
CCGAAGAAAGACCTGGACATCTTTGGATTGAATCCTGCAGACGAGAGCACAAGAAGTTATGTGATTTGT
CTTTTAAAAAATACGGCGACTACATGGACATGAAGCAAGCTGATACCACACAGTATGCCCCATGCTTGA
AAGGAAAGAGGTTTCTAAATACTCTGACATCCAGAGATCGCTGTACGATCGGCCAGCCTCTACAAGAAG
AAATCCATGCTAGACTCAGAAGTCAAAAACCTCCTTTCCGACGATGACTCCGAGGGTCTGACTTTGCTGG
ATCTATTGAGCTTCACTATCAAGTTGCTCGAGGAATGGATTTTGGCTTCGAAAAATTGTGCCACCG
GGACCTGGCTGCCCGAACGTCCTCCTGGCGCAAGGAAAAATTGTGAAGATCTGTGATTTTGGCCTGGCC
AGAGACATCATGCACGATTCCAACCTACGTGTCAAAGGCAGTACTTTCCTGCCTGTGAAGTGGATGGCAC
CCGAGAGCATCTTCGACAACCTCTACACCACGCTGAGTGACGCTGGTCTATGGCATTCTGCTCTGGGA
AATCTTTTCCCTTGGTGGCACACCTATCCTGGCATGATGGTTCGATTCTACTTTCTACAATAAGATCAAG
AGTGGATACCGGATGGCCAAACCTGACCATGCCACCAGTGAAGTCTATGAGATCATGGTGCAGTGCCTGGA
ACAGTGAGCCCGAGAAGAGACCCCTCTTACCACCTCAGCGAGATAGTGGAGAACCTGTTGCCGGGACA
ATACAAGAAGAGTTATGAAAAGATTACCTGGACTTCTAAAGAGTGACCATCCGGCCGTGGCACGCATG
CGGGTGGACTCTGATAATGCGTACATCGGTGTCACTTACAAAAATGAAGAGGATAAGCTGAAGGACTGGG
AAGGTGGCCTGGACGAACAGAGACTGAGCGCTGACAGTGGCTACATCATCCCCCTGCCAGACATTGACCC
TGTTCCAGAGGGAAGACCTGGGCAAGAGGAACAGACACAGCTCACAGACTTCGGAAGAGAGTGGCCATC
GAGACAGTTCCAGTAGTTCCACCTTCATCAAGAGAGAGGACGAGACCATCGAGGACATCGACATGATGG
ATGACATTGGTATAGATTCTCGGACCTGGTGGAGGACAGCTTCTCTGTAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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**Restriction Sites:**

Sgfl-MluI

**ACCN:**

NM\_001083316

**Insert Size:**

3270 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](#)

**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\\_001083316.1](#), [NP\\_001076785.1](#)

**RefSeq Size:** 6570 bp

**RefSeq ORF:** 3270 bp

**Locus ID:** 18595

**UniProt ID:** [P26618](#)

**Cytogenetics:** 5 39.55 cM

**Gene Summary:** This gene encodes a member of the receptor tyrosine kinase family of proteins. Binding of platelet-derived growth factor protein ligands to this receptor triggers receptor dimerization and autophosphorylation, resulting in the activation of several downstream signaling pathways. Signaling through the encoded receptor plays a role in gastrulation and the development of nearly all organ systems. Mice lacking a functional copy of this gene reportedly exhibit defects in lung, skeleton, testis and the central nervous system, and die soon after birth. Alternative splicing and intronic polyadenylation of gene transcripts have been implicated in muscle regeneration and fibrosis in adult mice. [provided by RefSeq, Jan 2017]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Both variants 1 and 2 encode the same isoform (1).