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Product datasheet for MG211616

Pdgfra (NM_011058) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdgfra (NM_011058) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pdgfra
Synonyms:	AI115593; CD140; CD140a; Pdgfr; Pdgfr-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG211616 representing NM_011058
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACCTCCCACCAGGTCTTTCTGGTCCTCAGCTGTCTCCTCACAGGGCCGGGCCTCATCTCCTGCC
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ACGGGAGGCTGGTGCCTGCCTCCTATGACAGCAGGCAGGGCTTCAACGGAACCTTCAGCGTGGGGCCTTA
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CCTGTGCCGTCTTTAACAACGAGGTCGTTGACCTGCAGTGGACTTACCCTGGAGAAGTGAGAAACAAAGG
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GCCAAAGTGGAAGAGACCATCGCAGTTCGATGCCTGGCAAAGAACAACCTCAGCGTTGTGGCCCGTGAGC
TGAAGCTGGTGGCTCCCACTCTGCGATCTGAACTCACAGTGGCGGCCGCAGTGTTGGTGCTGTTGGTGAT
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GAGACAGGTTCCAGTAGTTCCACCTTCATCAAGAGAGAGGACGAGACCATCGAGGACATCGACATGATGG
ATGACATTGGTATAGATTCCTCGGACCTGGTGGAGGACAGCTTCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211616 representing NM_011058
Red=Cloning site Green=Tags(s)

MGTSHQVFLVLSCLLTGPGLISCQLLLPSILPNENEKIVQLNSSFSLRCVGESEVSWQHPMSEEDDPNVE
IRSEENNSGLFVTVLEVVNASAAHTGWYTCYYNHTQTDESEIEGRHIYIYVPDPDMAFVPLGMTDSLVIV
EEDDSAIIPCRTTDPETQVTLHNNGRLVPASYDSRQGFNGTFSVGPYICEATVKGRTFKTSEFNVYALKA
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KDNLTLIENLTEITTDVQKSQETRYQSKLKLIRAKEEDSGHYTIIVQNEDDVKSYTFELSTLVPASILDL
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VIESISPDGHEYIYVDPMQLPYDSRWEFPRDGLVLGRILGSGAFGKVVEGTAYGLSRSQPVMKVAVKMLK
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SGYRMAKPDHATSEVYEIMVQCWNSEPEKRPSFYHLSEIVENLLPGQYKKSYEKIHLDFLKSDHPAVARM
RVDSDNAYIGVTYKNEEDKLKDWEGGLDEQRLSADSGYIIPLPDIDPVPEEEDLGKRNRHSSQTSEESAI
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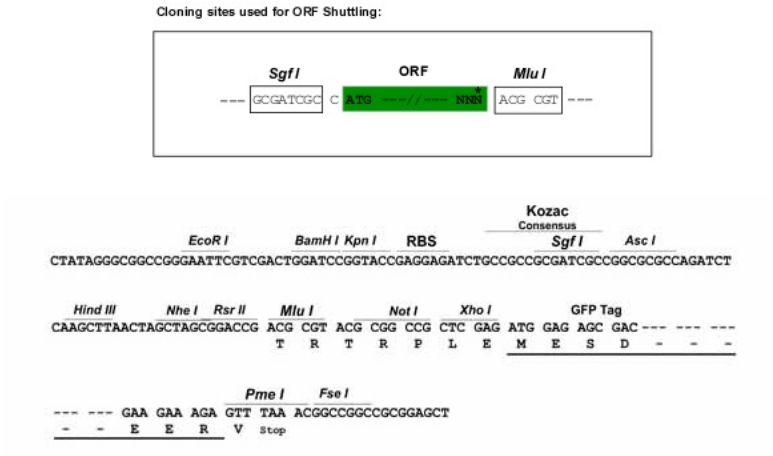
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011058

ORF Size: 3267 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

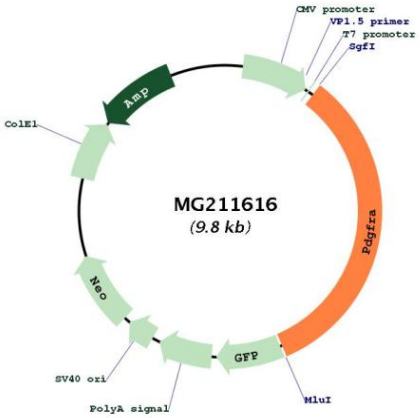
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:
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_011058.3
RefSeq Size:	6553 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]

Product images:



Circular map for MG211616