

Product datasheet for MR203421

Pdghd (BC030896) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Pdghd (BC030896) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Pdghd |
| Synonyms: | 1110003I09Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR203421 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAACGGCTCGTTTTAGTCTCCATTCTCCTGTGCGCGAACTTTAGCTGCTATCCGGACACTTTTGCGA
CTCCGCAGAGAGCATCCATCAAAGCTTTGCGCAATGCCAACCTCAGGAGAGATGAGAGCAATCACCTCAC
AGACTTGTACCAGAGAGAGGAGAACATTCAGGTGACAAGCAATGGCCATGTGCAGAGTCTCGTCCCCG
AACAGCTACCCAAGGAACCTGCTTCTGACATGGTGGCTCCGTTCCAGGAGAAAAACCGGATACAACCTGT
CCTTTGACCATCAATTCGGACTAGAGGAAGCAGAAAATGACATTTGTAGGTATGACTTTGTGGAAGTTGA
AGAAGTCTCAGAGAGCAGCACTGTTGTCAGAGGAAGATGGTGTGGCCACAAGGAGATCCCTCAAGGATA
ACGTCAAGAACAACAGATTAAAATCACATTTAAGTCTGATGACTACTTTGTGGCAAAACCTGGATTCA
AGATTTATTATTCATTTGTGGAAGATTCCTCAACCGGAAGCAGCCTCAGAGACCAACTGGGAATCAGTCAC
AAGCTCTTTCTCTGGGTGTCCTATCACTCTCCATCAATAACGGACCCCACTCTCACTGCTGATGCCCTG
GACAAAAGTGTGCGAGAATTCGATACCGTGGAAGATCTACTTAAGCACTTCAATCCAGTGTCTTGGAAG
ATGATCTGGAGAATTTGTATCTGGACACCCCTCATTATAGAGGCAGGTATACCATGATCGGAAGTCCAA
AGGTATTGAAGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203421 protein sequence
Red=Cloning site Green=Tags(s)

MQRLVLVSILLCANFSCYPDTFATPQRASIKALRNANLRRDESNHLTDL YQREENIQVTSNGHVQSPRFP
 NSYPRNLLLTWWLRSQEKTRIQLSFDHQFGLLEEAENDICRYDFVEVEEVSSTVVRGRWCGHKEIPPRI
 TSRTNQIKITFKSDDYFVAKPGFKIYYSFVEDSQPEAASETNWESVTSSFSGVSYHSPSITDPTLTADAL
 DKTVAEFDTVEDLLKHFNPVSWQDDLENLYLDTPHYRGRSYHDRKSKGIEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC030896

ORF Size: 783 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: [BC030896](#), [AAH30896](#)

RefSeq Size: 2870 bp

RefSeq ORF: 785 bp

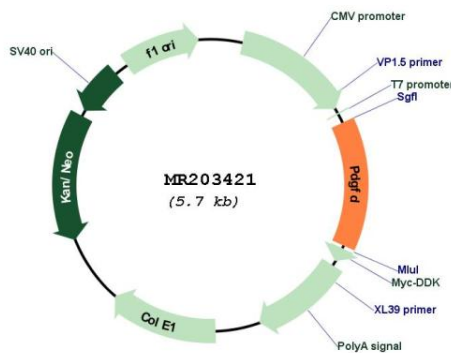
Locus ID: 71785

Cytogenetics: 9 A1

MW: 30.2 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 for cells of mesenchymal origin. Plays an important role in wound healing (By similarity). Has oncogenic potential and can induce tumor formation. Induces macrophage recruitment, increased interstitial pressure, and blood vessel maturation during angiogenesis. Can initiate events that lead to a mesangial proliferative glomerulonephritis, including influx of monocytes and macrophages and production of extracellular matrix.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203421