

OriGene Technologies, Inc.

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Product datasheet for RC214164

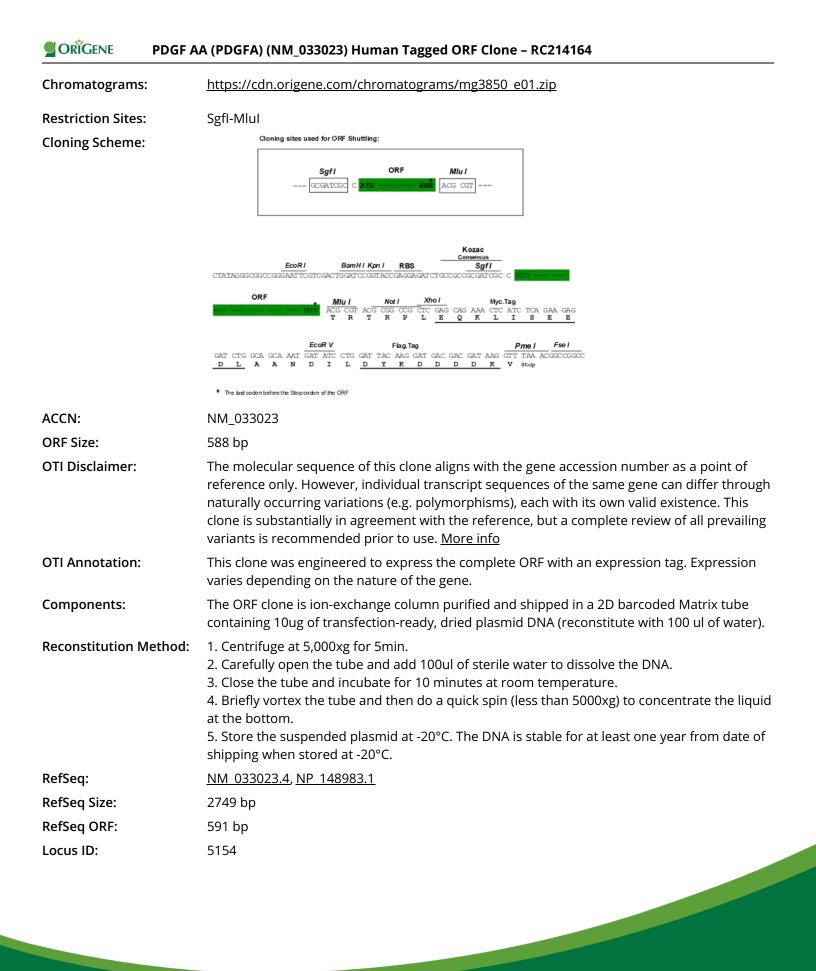
PDGF AA (PDGFA) (NM_033023) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDGF AA (PDGFA) (NM_033023) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDGF AA
Synonyms:	PDGF-A; PDGF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC214164 representing NM_033023 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC
	ATGAGGACCTTGGCTGCCGCTGCTGCTCCCGGGCTGCGGATACCTCGCCCATGTTCTGGCCGAGGAAGCCG AGATCCCCCGCGAGGTGATCGAGAGGCTGGCCCGCAGTCAGATCCACAGCATCCGGGACCTCCAGCGACT CCTGGAGATAGACTCCGTAGGGAGTGAGGATTCTTTGGACACCAGCCTGAGAGCTCACGGGGTCCATGCC ACTAAGCATGTGCCCGAGAAGCGGCCCCTGCCCATTCGGAGGAAGAAGAAGCATCGAGGAAGCTGTCCCCG CTGTCTGCAAGACCAGGACGGTCATTTACGAGATTCCTCGGAGTCAGGTCGACCCCACGTCCGCCAACTT CCTGATCTGGCCCCGTGCGTGGAGGTGAAACGCTGCACCGGCTGCTGCAACACGAGCAGTGTCAAGTGC CAGCCCTCCCGCGTCCACCACCGCAGCGTCAAGGTGGCCAAGGTGGAATACGTCAGGAAGAAGCCAAAAT TAAAAGAAGTCCAGGTGAGGTTAGAGGAGCATTTGGAGTGCGCCTGCGCGACCACAAGCCTGAATCCGGA TTATCGGGAAGAGGACACGGACGGTGAAGG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC214164 representing NM_033023 <mark>Red=</mark> Cloning site Green=Tags(s)
	MRTLACLLLLGCGYLAHVLAEEAEIPREVIERLARSQIHSIRDLQRLLEIDSVGSEDSLDTSLRAHGVHA TKHVPEKRPLPIRRKRSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCVEVKRCTGCCNTSSVKC QPSRVHHRSVKVAKVEYVRKKPKLKEVQVRLEEHLECACATTSLNPDYREEDTDVR
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



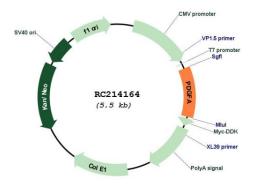
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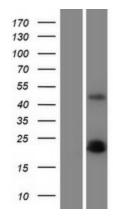
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PDGF AA (PDGFA) (NM_033023) Human Tagged ORF Clone – RC214164	
UniProt ID:	<u>P04085</u>
Cytogenetics:	7p22.3
Protein Families:	Druggable Genome
Protein Pathways:	Cytokine-cytokine receptor interaction, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton
MW:	20.1 kDa
Gene Summary:	This gene encodes a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). The encoded preproprotein is proteolytically processed to generate platelet-derived growth factor subunit A, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit B. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]

Product images:



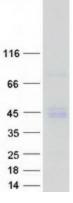
Circular map for RC214164



Western blot validation of overexpression lysate (Cat# [LY409784]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214164 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified PDGFA protein (Cat# [TP314164]). The protein was produced from HEK293T cells transfected with PDGFA cDNA clone (Cat# RC214164) using MegaTran 2.0 (Cat# [TT210002]).

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