

Product datasheet for RC211740

PDGF Receptor alpha (PDGFRA) (NM_006206) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDGF Receptor alpha (PDGFRA) (NM_006206) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDGF Receptor alpha
Synonyms:	CD140A; PDGFR-2; PDGFR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211740 representing NM_006206 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC211740 representing NM_006206
 Red=Cloning site Green=Tags(s)

MGTSHPAFLVLGCLLTGLSLILCQLSLPSILPNENEKVVQLNSSFSLRCFGESEVSWQYPMSEEESSDVE
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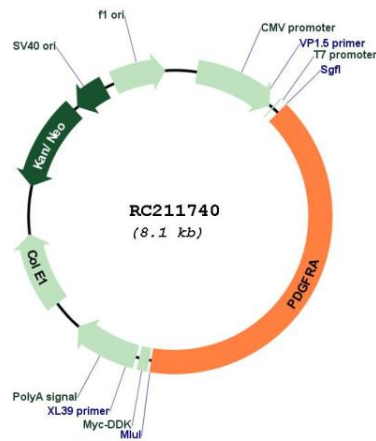
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Chromatograms:

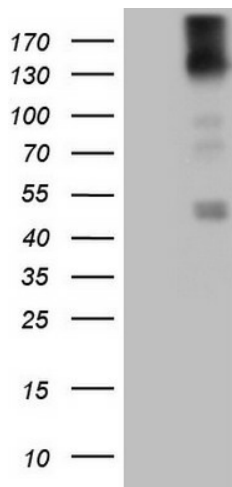
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Locus ID:	5156
UniProt ID:	P16234
Cytogenetics:	4q12
Domains:	pkinase, TyrKc, S_TKc, ig, IGC2, IG
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
Protein Pathways:	Calcium signaling pathway, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton
MW:	122.67 kDa
Gene Summary:	This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies suggest that this gene plays a role in organ development, wound healing, and tumor progression. Mutations in this gene have been associated with idiopathic hypereosinophilic syndrome, somatic and familial gastrointestinal stromal tumors, and a variety of other cancers. [provided by RefSeq, Mar 2012]

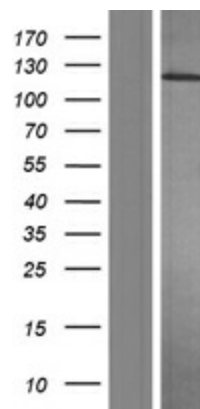
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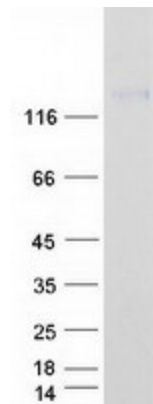
Circular map for RC211740



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PDGFRA (Cat# RC211740, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDGFRA (Cat# [TA807645])(1:2000). Positive lysates [LY416803] (100ug) and [LC416803] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416803]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211740 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PDGFRA protein (Cat# [TP311740]). The protein was produced from HEK293T cells transfected with PDGFRA cDNA clone (Cat# RC211740) using MegaTran 2.0 (Cat# [TT210002]).