

## Product datasheet for SC116256

### PDGF Receptor alpha (PDGFRA) (NM\_006206) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PDGF Receptor alpha (PDGFRA) (NM_006206) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDGF Receptor alpha
Synonyms:	CD140A; PDGFR-2; PDGFR2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116256 sequence for NM_006206 edited (data generated by NextGen Sequencing)

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ATGGGGACTTCCCATCCGGCCTTCTGGTCTTAGGCTGTCTTCTCACAGGCTGAGCCTA
ATCCTCTGCCAGCTTTCATTACCCTCTATCCTTCAAATGAAAATGAAAAGGTTGTGCAG
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GTCGATGATCACCATGGCTCAACTGGGGACAGACGGTGAAGTGCACAGCTGAAGGCAGC
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TGCCTGGCTAAGAATCTCCTTGGAGCTGAGAACCAGAGCTGAAGCTGGTGGCTCCCACC  
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 TCATTATTGCTCTGGTTGTCAATTTGAAACAGAAACCGAGGTATGAAATTCGCTGGAGG  
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 AAGAGAGAGGACGAGACCATTGAAGACATCGACATGATGGACGACATCGGCATAGACTCT  
 TCAGACCTGGTGAAGACAGCTTCTGTAA

Clone variation with respect to NM\_006206.4  
 1701 a=>g;3222 t=>c

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006206 unedited  
 CCCCCAGACTTGGGAANTAAAAACCTANATTCATGTGAGGNTGGACGCCTAATCGGCACC  
 AGCAGAGGAGGAGACTGCAGNAGACATTGGAGGCCGTGGGCACGCTCTTTACTCCTGTGT  
 GGGACATTCATTGCTGGAATAACATCGNAGGAGAAGTTTCCAGAGCTATGGGGACTTC  
 CCATCCGGCGTTCTGGTCTTAGCTGTCTTCTACATTTTTGAGCCTAATCCTCTGCCA  
 GCTTTCATTACCCTCTATCCTTCCAAATGAAAATGAAAAGGTTGTGCAGCTGAATTCATC  
 CTTTTCTGAGATGCTTTGGGGAGAGTGAAGTGAGCTGGCAGTACCCCATGTCTGAAGA  
 AGAGAGCTCCGATGTGGAATCAGAAATGAAGAAAACAACAGCGGCCCTTTTTGTGACGGT  
 CTTGGAAGTGAGCAGTGCCTCGGCGGCCACACAGGGTTGTACACTTGCTATTACAACCA  
 CACTCAGACAGAAGAGAATGAGCTTGAAGGCAGGCACATTTACATCTATGTGCCAGACCC  
 AGATGTAGCCTTTGTACCTCTAGGAATGACGGATTATTTAGTCATCGTGGAGGATGATGA  
 TTCTGCCATTATACCTTGTGCAACTGATCCCGAGACTCCTGTAACCTTACACAACAG  
 TGAGGGGTGGTACCTGCCTCCTACGACAGCAGACAGGGCTTTAATGGGACCTTCACTGT  
 AGGGCCCTATATCTGTGAGGCCACCGTCAAGGAAAGAAGTTCAGACCATCCCATTTAA  
 TGTTTTATGCTTTAAAAGCAACATCAGAGCTGGATCTAGAATGGAAGCTCTTTAAACCGT  
 GTATAAGTCAGGGGAAACGATTGTGGTCACCTGTGCTGTTTTTAACATG

<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006206 unedited</p> <pre> CTATGTACCGCAGGCCGCACTTCTAGAGTACGAGTTTTTTTTTTTTTTTTTTTTTAAAC TTTAAATTATATATCATTATTGAAATATAAAGATCTTCATTTACACGTTTTAAACAAA AACATGAACAGGGGCATTGTAATACATTTTGTATTGGTAGACCCTATCAAGTTAGTTTT TCTCACACATTCACCACACCATTGTTTTGGGAACATGCAAGCATCTTTGCTTTTTATTAT TGGTAAAAATAAAATTTGGACATTCAAAAGTGCATCACCTAATGTTGCCTGTGGGGATT ATCTCACGCTCACAATGTTTGGCAAGGCCCTGCTCCGCGTTGCATATTCGCCCCACCC CCCCGTCCCCCAGCCATATAGTGGCGCTGTGGGTCCGCCCGCCCGTGCCTTGCC GTCCTCTCTCTCTCCCGCCGACTACCCACCGCCTTATCTCTCCCATGCCCTTCCGT TTCCCCCGCGCCCCCTCCTCCCGCAACCTCCTTTTCCCCCCCCCGCGATCCGCACC TTCCCATTCGCCCTCTCATTTCACACCCACTCCTCTCTGTTCTCGTACTCCTTACC TCACCCTCCGCGCTCTCTACTAACAGTGCTCCTAATCAGACTATTCTCCCTCCCTCA TTTCGCTTAACCTCCCTTCGCTCCACTCCCCGTGTTTCGCCCTCTATCCACCCCTT TCTCTTACGACCGCGTGTGCTTTTAAACCGCTTACACGCCGCTAGTCGTTTCGGCC TTTACCTACATACTTCATCTCTCTTGTATGCTCCTCGTCTATTCTACAGCCCGCCAC GGCGTCTTACCTCACCTCCCTTTGTTCCCTTCCACCCCTCCCATATCTGGTC CCCTCCGCCGTGCCTTCTATTGCAGCAACCACATCGACCCTCCACGCGCCCTCGA TATAACGACCTCCCTGTCCGCCCTTCCATTTACCCGCATCCTGTCTACTGTCAGCAC CCGTCCTCCAGTCCCTCGCCN </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006206
<b>Insert Size:</b>	6190 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_006206.3</a> , <a href="#">NP_006197.1</a>

RefSeq Size:	6574 bp
RefSeq ORF:	3270 bp
Locus ID:	5156
UniProt ID:	<a href="#">P16234</a>
Cytogenetics:	4q12
Domains:	kinase, 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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.</p>