

## Product datasheet for **SC119393**

### **BMPR1B (NM\_001203) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BMPR1B (NM_001203) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMPR1B
Synonyms:	ALK-6; ALK6; AMDD; BDA1D; BDA2; CDw293
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC119393 sequence for NM\_001203 edited (data generated by NextGen Sequencing)

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ATGCTTTTGCAGAGTGCAGGAAAATTAATGTAGGCACCAAGAAAGAGGATGGTGAGAGT
ACAGCCCCACCCCGTCCAAAGGTCTTGCCTTGTAAATGCCACCACCATTTGCCAGAA
GACTCAGTCAACAATATTTGCAGCACAGACGGATATTGTTTCACGATGATAGAAGAGGAT
GACTCTGGGTTGCCTGTGGTCACTTCTGGTTGCCTAGGACTAGAAGGCTCAGATTTTCAG
TGTCGGGACACTCCCATTCCCTCATCAAAGAAGATCAATTGAATGCTGCACAGAAAGGAAC
GAATGTAATAAAGACCTACACCCTACACTGCCTCCATTGAAAAACAGAGATTTTGTGAT
GGACCTATACACCACAGGGCTTTACTTATATCTGTGACTGTCTGTAGTTTGTCTTGGTC
CTTATCATATTATTTTGTACTTCCGGTATAAAAGACAAGAAACCAGACCTCGATACAGC
ATTGGGTTAGAACAGGATGAAACTTACATTCTCTGGAGAATCCCTGAGAGACTTAATT
GAGCAGTCTCAGAGCTCAGGAAGTGGATCAGGCCTCCCTCTGCTGGTCCAAAGGACTATA
GCTAAGCAGATTCAGATGGTGAACAGATTGGAAAAGGTCGCTATGGGGAAGTTGGATG
GGAAAGTGGCGTGGCGAAAAGGTAGCTGTGAAAGTGTTCTTACCACAGAGGAAGCCAGC
TGTTCCAGAGAGACAGAAATATATCAGACAGTGTGATGAGGCATGAAAACATTTTGGGT
TTCATTGCTGCAGATATCAAAGGACAGGGTCCCTGGACCCAGTTGTACCTAATCAGAGAC
TATCATGAAAATGGTTCCCTTTATGATTATCTGAAGTCCACCACCTAGACGCTAAATCA
ATGCTGAAGTTAGCCTACTCTTCTGTGCTGAGTGGCTTATGTCATTTACACACAGAAATCTTT
AGTACTCAAGGCAAAACCAGCAATTGCCCATCGAGATCTGAAAAGTAAAAACATTCTGGTG
AAGAAAAATGGAAGTTGCTGTATTGCTGACCTGGGCTGGCTGTTAAATTTATTAGTGAT
ACAAATGAAGTTGACATACCACCTAACACTCGAGTTGGCACCACGCTATATGCCTCCA
GAAGTGTGGACGAGAGCTTGAACAGAAATCACTTCCAGTCTTACATCATGGCTGACATG
TATAGTTTTGGCTCATCTTTGGGAGGTTGCTAGGAGATGTGTATCAGGAGGTATAGTG
GAAGAATACCAGCTTCTTATCATGACCTAGTGCACAGTCCCTCTTATGAGGACATG
AGGGAGATTGTGTGCATCAAGAAGTTACGCCCTCATTCCCAAACCGGTGGAGCAGTGAT
GAGTGTCTAAGGCAGATGGGAAAACCTCATGACAGAATGCTGGGCTCACAATCCTGCATCA
AGGCTGACAGCCCTGCGGGTTAAGAAAACACTTGCCAAAATGTCAGAGTCCAGGACATT
AAACTCTGA
    
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Clone variation with respect to NM\_001203.2  
33 g=>a

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001203 unedited

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ACGCGGGAGCCGGGAGCGCAGCCGCGGGGTGGAGTTCAGCCTACTCTTTCTTAGATGTGA
AAGGAAAGGAAGATCATTTCATGCCTTGTGATAAAGGTTACAGACTTCTGCTGATTTCATA
ACCATTTGGCTCTGAGCTATGACAAGAGAGGAAACAAAAAGTTAAACAAGCAAGCCTGCC
ATAAGTGAGAAGCAAACTTCTTGATAACATGCTTTTGGCAAGTGCAGGAAAAATTAATG
TAGGCACCAAGAAAGAGGATGGTGAGAGTACAGCCCCACCCCGTCCAAAGGCTTGC
GTTGTAATGCCACCACCATTTGTCAGAAAGACTCAGTCAACAATATTTGCAGCACAGACG
GATATTGTTTACGATGATAGAAGAGGATGACTCTGGGTTGCCTGTGGTCACTTCTGGTT
GCCTAGGACTAGAAGGCTCACATTTTCAAGTGTGCGGACACTCCCATTCTCATCAAAGAA
GATCAATTGAATGCTGCACAGAAAGGAACGAATGTGATAAAGACCTACACCCTACACTGC
CTCCATTGAAAAACAGAGATTTGTTGATGGACCTATACACCACAGGGCTTTACTTATAT
CTGTGACTGACTGAAATTTGCTCTTGGGCTAACATAATATTGTGGTACTTCCGGGTTAA
AGACAAGAAAACCGACCTTGTCCACATTTGGGATAACAGGATGAAAATTAATTTCTCC
TGGAGAATCCCTGAAAGACTTATTGACCATTTTCATAACTAAGAAGGGCACCGGCCTCT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001203 unedited AAAATCTGACTTGANACCGCGGCCGATTCTAGNGATCNGTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTCCAGGGGGAAAATGAAGCCTTTTTATTTAGGGGAATGTTAAACA AAGCCATTTACAATTTGTAACAAATACAATACAATTGTTGGTTCCTAATCCTGAATAAT TACAGTATATACAAAATTTGTAAGGCACTGGTTCCTCCCAAAAAACAATGAGTCTTTTT GGGAAACAACAACGAAACCCCTATATTGCCAATTTCTCCAAAAATAGGGCATTGTT TTTTAGTTTTGTTTTACAAGAGGAATCACAATTGCTAAATTAAGTCACTTCTGATGCCAT TTCTTTCAATTCCTGCTATGTGTTGGTTTTCTAAGGCAATGGAACACTGAACATG TTTAAGTTTTAAAAATTATTCTTTTTTTCAGTGCCGTACCACCCACAAACAACAATAATC ATATCGAACCAACAACATAAAACTTCTAACGAATATGTTTGACTGCAGGAACATAAAATT AAGTAATTTATAAGACCTTCGCTGACCTTGACCTCCACCCAGTTGAAATGTGGAACACA ATTCGGTGCAAAAAAATCTACACGTTCTTTCTAAAACTTCGGTTTGGGGAATTCAAA AATGGGCCCTTTTGATTTTGGGAATGTGCTTCACTCAAGGCCAAAGGCCTCTCCTTCC ACCCAGTGGGCAAGCACCTTCTTTTTTCTCCACATCTAACACCTTTTTTAAACAC CCTTTGGCCCTTCTCGTTTTTATAACGTAATATTTACTCTTCTCCTCAATTTTGGC ATCTGCGCCGGCGTTACTAATTGATTTTGTATCTTCGCCACTGACTTCCCAATTTAAC ACCCTATGAGATAATTTTG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001203
<b>Insert Size:</b>	6000 bp
<b>OTI Disclaimer:</b>	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.
	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>
<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_001203.1</a> , <a href="#">NP_001194.1</a>
<b>RefSeq Size:</b>	2032 bp

RefSeq ORF:	1509 bp
Locus ID:	658
UniProt ID:	<a href="#">O00238</a>
Cytogenetics:	4q22.3
Domains:	Activin_recp, pkinase, TyrKc, S_TKc, GS
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway
Gene Summary:	<p>This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs, which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding. Mutations in this gene have been associated with primary pulmonary hypertension. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2, 3, and 4 all encode isoform b. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>