

## Product datasheet for **SC309438**

### Activin A Receptor Type IB (ACVR1B) (NM\_020328) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Activin A Receptor Type IB (ACVR1B) (NM_020328) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACVR1B
Synonyms:	ACTRIB; ACVRLK4; ALK4; SKR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC309438 representing NM\_020328.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCGGAGTCGGCCGGAGCCTCCTCCTTCTTCCCCTTGTGTCTCCTGCTCGCCGGCAGCGCGGG
TCCGGGCCCGGGGGTCCAGGCTCTGCTGTGTGCGTGCAACAGCTGCCTCCAGGCCAACTACACGTGT
GAGACAGATGGGGCTGCATGGTTTCCATTTTCAATCTGGATGGGATGGAGCACCATGTGCGCACCTGC
ATCCCCAAAGTGGAGCTGGTCCCTGCCGGGAAGCCCTTCTACTGCCTGAGCTCGGAGGACCTGCGCAAC
ACCCACTGCTGCTACACTGACTACTGCAACAGGATCGACTTGAGGGTGCCAGTGGTCACCTCAAGGAG
CCTGAGCACCCGTCCATGTGGGGCCCGGTGGAGCTGGTAGGCATCATCGCCGGCCCGGTGTTCTCCTG
TTCCTCATCATCATCATTGTTTTCTTGTCTTAATACTATCATCAGCGTGTCTATCACAACCGCCAGAGA
CTGGACATGGAAGATCCCTCATGTGAGATGTGTCTCTCAAAGACAAGACGCTCCAGGATCTTGTCTAC
GATCTCTCCACCTCAGGGTCTGGCTCAGGGTACCCTCTTTGTCCAGCGCACAGTGGCCGAACCATC
GTTTTACAAGAGATTATTGGCAAGGTCGGTTTGGGAAGTATGGCGGGCCGCTGGAGGGTGGTGTAT
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GTCATGCTGCGCCATGAAAACATCCTTGGATTTATTGCTGCTGACAATAAAGCAGACTGCTCATTCTC
ACATTGCCATGGGAAGTTGTAATGGTCTCTGCTGCCCCAAGCTGAGGAGCCTTAGACTCCAATACAAG
GGAGGAAGGGGAAGCAAGATTTTTATCCCCTGAATAATGGCACCTGGACACAGCTGTGGCTTGT
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ATTAAGCTGGCCTTGTCTGCTGCTAGTGGGCTGGCACACCTGCACATGGAGATCGTGGGCACCAAGGG
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ATAGCAGACCTGGGCTGGCTGTCGTCATGATGCAGTCACTGACACCATTGACATTGCCCGAATCAG
AGGGTGGGGACCAACGATACATGGCCCCGAAGTACTTGTATGAAACCATTAATATGAAACACTTTGAC
TCCTTTAAATGTCTGATATTTATGCCCTCGGGCTTGTATATTGGGAGATTGCTCGAAGATGCAATTCT
GGAGGAGTCCATGAAGAATATCAGCTGCCATATTACGACTTAGTGCCCTCTGACCCTTCCATTGAGGAA
ATGCGAAAGTTGTATGTGATCAGAAGCTGCGTCCCAACATCCCCAAGTGGTGGCAGAGTTATGAGGCA
CTGCGGGTATGGGAAGATGATGCGAGAGTGTGGTATGCCAACGGCGCAGCCCGCTGACGGCCCTG
CGCATCAAGAAGACCCTCTCCAGCTCAGCGTGCAGGAAGACGTGAAGATCTAA
ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** Sgfl-Mlul

**Plasmid Map:** □

**ACCN:** NM\_020328

**Insert Size:** 1641 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<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_020328.3</a>
<b>RefSeq Size:</b>	4687 bp
<b>RefSeq ORF:</b>	1641 bp
<b>Locus ID:</b>	91
<b>UniProt ID:</b>	<a href="#">P36896</a>
<b>Cytogenetics:</b>	12q13.13
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway
<b>MW:</b>	61.4 kDa
<b>Gene Summary:</b>	<p>This gene encodes an activin A type IB receptor. Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I and two type II receptors. This protein is a type I receptor which is essential for signaling. Mutations in this gene are associated with pituitary tumors. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]</p> <p>Transcript Variant: This variant (3) uses an alternate in-frame exon, compared to variant 1. The encoded isoform (c) is longer than isoform a. 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>