

## Product datasheet for **SC318920**

### Activin Receptor Type IA (ACVR1) (NM\_001111067) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Activin Receptor Type IA (ACVR1) (NM_001111067) Human Untagged Clone
Tag:	Tag Free
Symbol:	Activin Receptor Type IA
Synonyms:	ACTRI; ACVR1A; ACVRLK2; ALK2; FOP; SKR1; TSRI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC318920 representing NM\_001111067.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTAGATGGAGTGATGATTCTTCTGTGCTTATCATGATTGCTCTCCCCTCCCCTAGTATGGAAGAT
GAGAAGCCCAAGGTCAACCCCAAACCTACATGTGTGTGTGAAGGTCTCTCTGCGGTAATGAGGAC
CACTGTGAAGGCCAGCAGTGCTTTTCTCACTGAGCATCAACGATGGCTTCCACGTCTACCAGAAAGGC
TGCTTCCAGGTTTATGAGCAGGGAAAGATGACCTGTAAGACCCCGCCGTCCTCCCTGGCCAAGCCGTGGAG
TGCTGCCAAGGGGACTGGTGTAAACAGGAACATCACGGCCAGCTGCCACTAAAGGAAAACTCTCCCT
GGAACACAGAATTTCCACTTGGAGGTTGGCCTCATTATTCTCTGTAGTGTTCGAGTATGTCTTTTA
GCCTGCCTGTGGGAGTTGCTCTCCGAAAATTTAAAAGGCGCAACCAAGAAGCCCTCAATCCCCGAGAC
GTGGAGTATGGCACTATCGAAGGGCTCATCACCACCAATGTTGGAGACAGCACTTAGCAGATTTATTG
GATCATTGCGTACATCAGGAAGTGGCTCTGGTCTTCTTTTCTGGTACAAGAAGCAGTGGCTCGCCAG
ATTACACTGTTGGAGTGTGTCGGGAAAGGCAGGTATGGTGGAGGTGGAGGGGCAGCTGGCAAGGGGAG
AATGTTGCCGTGAAGATCTTCTCTCCCGTGTGAGAAGTCATGGTTCCAGGAAACGGAATTGTACAAC
ACTGTGATGCTGAGGCATGAAAAATCTTAGGTTTCATTGCTTCAGACATGACATCAAGCACTCCAGT
ACCCAGCTGTGGTTAATTACACATTATCATGAAATGGGATCGTTGTACGACTATCTTCAGCTTACTACT
CTGGATACAGTTAGTGCCTTCGAATAGTGCTGTCCATAGCTAGTGGTCTTGACATTTGCACATAGAG
ATATTTGGGACCAAGGGAAACCAGCCATTGCCATCGAGATTTAAAGAGCAAAAATATTCTGGTTAAG
AAGAAATGGACAGTGTTCATAGCAGATTTGGGCCTGGCAGTCATGCATTTCCAGAGCACCACATCAGCTT
GATGTGGGAAACAATCCCCGTGTGGGCACCAAGCGCTACATGGCCCCGAAGTTCTAGATGAAACCATC
CAGGTGGATTGTTTCGATTCTTATAAAAGGGTCGATATTTGGGCCTTTGGACTTGTTTTGTGGGAAGTG
GCCAGGGGATGGTGAGCAATGGTATAGTGGAGGATTACAAGCCACCGTTCTACGATGTGGTTCCCAAT
GACCCAAGTTTTGAAGATATGAGGAAGGTAGTCTGTGTGGATCAACAAAGGCCAAACATACCCAACAGA
TGGTTCTCAGACCCGACATTAACCTCTCTGGCCAAGCTAATGAAAGAATGCTGGTATCAAAATCCATCC
GCAAGACTCACAGCACTGCGTATCAAAAAGACTTTGACCAAAAATTGATAATTCCTCGACAAATTGAAA
ACTGACTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001111067

**Insert Size:** 1530 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_001111067.2</a>
<b>RefSeq Size:</b>	2881 bp
<b>RefSeq ORF:</b>	1530 bp
<b>Locus ID:</b>	90
<b>UniProt ID:</b>	<a href="#">Q04771</a>
<b>Cytogenetics:</b>	2q24.1
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway
<b>MW:</b>	57.2 kDa
<b>Gene Summary:</b>	<p>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 (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. This gene encodes activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors. Mutations in this gene are associated with fibrodysplasia ossificans progressive. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) has an alternate 5' UTR compared to variant 1. All seven variants encode the same protein.</p>