

Product datasheet for **SC317193**

Activin A Receptor Type IC (ACVR1C) (NM_001111033) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Activin A Receptor Type IC (ACVR1C) (NM_001111033) Human Untagged Clone
Tag:	Tag Free
Symbol:	Activin A Receptor Type IC
Synonyms:	ACVRLK7; ALK7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317193 representing NM_001111033. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCCGGGCGCTCTGCTCAGCGCTCCGCCAGGCTCTCCTGCTGCTCGCAGCGGCCCGCAGCTCTCG
CCAGGACTGAAGTGTGTATGTCTTTTGTGTATTCTTCAAACCTTACCTGCCAAACAGAAGGAGCATGT
TGGGCATCAGTCATGCTAACCAATGAAAAGAGCAGGTGATCAAATCCTGTGTCTCCCTCCAGAAGCTG
AATGCTCAAGTCTTCTGTATAGTTCCAACAATGTTACCAAACCGAATGCTGCTTCACAGATTTTTGC
AACACATAAACTGCACCTTCCAACAGATAATGGAAGTGGACTCAACTTGGCTGGTATCTGAATAT
CATGAACAGGGCTCCTTATATGACTATTTGAATAGAAATATAGTGACCGTGGCTGGAATGATCAAGCTG
GCGCTCTCAATTGCTAGTGGTCTGGCACACCTTCAATGAGATTGTTGGTACACAAGGTAACCTGCT
ATTGCTCATCGAGACATAAAATCAAAGAATATCTTAGTAAAAAGTGTGAACTTGTGCCATAGCGGAC
TTAGGGTTGGCTGTGAAGCATGATTCAATACTGAACACTATCGACATACCTCAGAATCCTAAAGTGGGA
ACCAAGAGGTATATGGCTCCTGAAATGCTTGATGATACAAATGAATGTGAATATCTTTGAGTCCCTCAA
CGAGCTGACATCTATTCTGTTGGTCTGGTTACTGGGAAATAGCCCGGAGGTGTTGAGTCCGGAGGAAT
GTTGAGGAGTACCAATTGCCTTATTATGACATGGTGCCTTCAGATCCCTCGATAGAGGAAATGAGAAAG
GTTGTTTGTGACCAGAAGTTTCGACCAAGTATCCCAAACCGAGTGGCAAAGTTGTGAAGCACTCCGAGTC
ATGGGGAGAATAATCGTGAGTGTGGTATGCCAACGGAGCGCCCGCTAACTGCTCTTCGTATTAAG
AAGACTATATCTCAACTTTGTGTCAAAGAAGACTGCAAAGCCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001111033
Insert Size:	1011 bp



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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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_001111033.1
RefSeq Size:	8421 bp
RefSeq ORF:	1011 bp
Locus ID:	130399
UniProt ID:	Q8NER5
Cytogenetics:	2q24.1
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Endocytosis, MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway
MW:	37.5 kDa
Gene Summary:	<p>ACVR1C is a type I receptor for the TGFB (see MIM 190180) family of signaling molecules. Upon ligand binding, type I receptors phosphorylate cytoplasmic SMAD transcription factors, which then translocate to the nucleus and interact directly with DNA or in complex with other transcription factors (Bondestam et al., 2001 [PubMed 12063393]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (4) lacks two alternate in-frame exons in the coding region, compared to variant 1. The resulting isoform (4), also known as sALK7b, lacks the transmembrane domain, GS domain, and part of the kinase domain, compared to isoform 1.</p> <p>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.</p>