

## Product datasheet for **SC310329**

### Activin A Receptor Type IC (ACVR1C) (NM\_145259) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Activin A Receptor Type IC (ACVR1C) (NM_145259) Human Untagged Clone
Tag:	Tag Free
Symbol:	Activin A Receptor Type IC
Synonyms:	ACVRLK7; ALK7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_145259 edited  
ATGACCCGGGCGCTCTGCTCAGCGCTCCGCCAGGCTCTCCTGCTCGCAGCGGCCGC  
GAGCTCTCGCCAGGACTGAAGTGTGTATGTCTTTGTGTGATTCTCAAACCTTACCTGC  
CAAACAGAAGGAGCATGTTGGGCATCAGTCATGCTAACCAATGGAAAAGAGCAGGTGATC  
AAATCCTGTGTCTCCCTCCAGAAGTGAATGCTCAAGTCTTCTGTCATAGTTCCAACAAT  
GTTACCAAAACCGAATGCTGCTTACAGATTTTTGCAACAACATAAACTGCACCTTCCA  
ACAGCATCACCAATGCCCAAACTTGGACCCATGGAGCTGGCCATCATTACTGTG  
CCTGTTTGCCTCCTGTCCATAGCTGCGATGCTGACAGTATGGGCATGCCAGGGTCGACAG  
TGCTCCTACAGGAAGAAAAGAGACCAATGTGGAGGAACCACTCTCTGAGTGAATCTG  
GTAATGCTGGAAAACCTCTGAAAGATCTGATTTATGATGTGACCGCCTCTGGATCTGGC  
TCTGGTCTACCTCTGTTGGTTCAAAGGACAATTGCAAGGACGATTGTGCTTCAGGAAATA  
GTAGAAAAGGTAGATTTGGTGAGGTGTGGCATGGAAGATGGTGTGGGAAGATGTGGCT  
GTGAAAATATTCTCCTCCAGAGATGAAAGATCTTGGTTTCGTGAGGCAGAAATTTACCAG  
ACGGTCATGCTGCGACATGAAAACATCCTTGGTTTCATTGCTGCTGACAACAAAGATAAT  
GGAACCTGGACTCAACTTGGCTGGTATCTGAATATCATGAACAGGGCTCCTTATATGAC  
TATTTGAATAGAAATATAGTGACCGTGGCTGGAATGATCAAGCTGGCGCTCTCAATTGCT  
AGTGGTCTGGCACACCTTCATATGGAGATTGTTGGTACACAAGGTAACCTGCTATTGCT  
CATCGAGACATAAAATCAAAGAATATCTTAGTGAAAAAGTGTGAACTTGTGCCATAGCG  
GACTTAGGGTTGGCTGTGAAGCATGATTCAATACTGAACACTATCGACATACCTCAGAAT  
CCTAAAGTGGGAACCAAGAGGTATATGGCTCCTGAAATGCTTGATGATACAATGAATGTG  
AATATCTTTGAGTCCTTCAAACGAGCTGACATCTATTCTGTTGGTCTGGTTACTGGGAA  
ATAGCCCGGAGGTGTTCACTCGGAGGAATTGTTGAGGAGTACCAATTGCCTTATTATGAC  
ATGGTGCCTTCAGATCCCTCGATAGAGGAAATGAGAAAGGTTGTTTGTGACCAGAAGTTT  
CGACCAAGTATCCCAAACAGTGGCAAAGTTGTGAAGCACTCCGAGTCATGGGGAGAATA  
ATGCGTGAGTGTGGTATGCCAACGGAGCGGCCCGCTAACTGCTCTTCGTATTAAGAAG  
ACTATATCTCAACTTTGTGTCAAAGAAGACTGCAAAGCCTAA



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_145259
<b>Insert Size:</b>	1482 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_145259.2.
<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>	<u><a href="#">NM_145259.1</a></u> , <u><a href="#">NP_660302.1</a></u>
<b>RefSeq Size:</b>	3267 bp
<b>RefSeq ORF:</b>	1482 bp
<b>Locus ID:</b>	130399
<b>UniProt ID:</b>	<u><a href="#">Q8NER5</a></u>
<b>Cytogenetics:</b>	2q24.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Endocytosis, MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway
<b>Gene Summary:</b>	<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 (1) represents the longest transcript and encodes the longest 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.</p>