

## Product datasheet for **MC216909**

### **Acvr1c (NM\_001111030) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acvr1c (NM_001111030) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acvr1c
Synonyms:	ACTR-IC; ACVRLK7; Alk-7; ALK7; C230097P10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216909 representing NM\_001111030  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGACCCAGCGCGGGCTCCGCACTGAGCCTGGCCCTCTGCTGGTGGCCCTGGCCGCCGACCTTGCGG  
CAGGACTGAAGTGTGTGTCTTTGTGTGATTCTTCAAACCTCACCTGCCAAACGGAAGGAGCATGTTG  
GGCTCCGTCATGCTAACCAACGGGAAAGAGCAGGTGATCAAATCGTGTGTGCCCTCCCGAACTAAAT  
GCTCAGGTCTTCTGTACAGTTCACAAACGTGACCAAAACCGAATGTTGCTTACAGACTTCTGCAACA  
ATATCACACTGCACCTTCCACAGCATCGCAAATGCCCTCGACTTGGTCCCACAGAGCTGACGGTGT  
TATCACCGTGCCGGTTTGCCTCTGTCCATAGCCGCCATGCTAACAAATATGGGCGTGCCAGGACGCCAG  
TGCACATACAGGAAGACTAAGAGACACAACGTGGAGGAAGCGCTGGCTGAGTACAGCCTTGTGAATGCAG  
GAAAAACTCAAGGATCTGATCTACGATGCTACTGCCTCGCTCAGGCTCTGGTCTGCCTCTCTTGGT  
TCAAAGAACAATCGAAGGACAATTGTACTTCAAGAAATCGTAGGAAAAGGTCGGTTTGGGGAAGTGTGG  
CACGGAAGATGGTGTGGAGAAGATGTGGCTGTGAAAATATTCTCCTCCAGGGATGAGAGATCTTGGTTC  
GTGAGGCGGAAATTTATCAGACGGTGATGCTGAGACACGAGAACATCCTCGGTTTCATCGCAGCTGACAA  
CAAAGATAATGGAACCTGGACACAACTCTGGCTTGTGTCAGAGTATCACGAGCAGGGCTCCTTGTATGAC  
TATTTGAACAGAAACATAGTGACTGTGGCTGGAATGGTCAAGCTGGCGCTTCCATAGCGAGTGGTCTGG  
CTCACCTGCACATGGAGATCGTGGGTAAGCTGCTATTGCTCACCGAGATATAAAGTCAAA  
GAATATCTAGTCAAAAAATGTGACACTTGTGCCATAGCTGACTTAGGGCTGGCTGTGAAGCAGGATTCT  
ATCATGAACACTATAGACATACCCAGAATCCTAAAGTGGGAACCAAGAGGTACATGGCTCCCGAAATGC  
TTGATGATACAATGAACCTGAGCATCTTTGAGTCCTTCAAGCGAGCTGACATCTATTCGGTGGGGTGGT  
TTACTGGGAAATAGCTCGAAGGTGTTCAAGTGGAGGAGTTGTTGAGGAGTACCAGTTGCCTTACTATGAC  
ATGGTGCCTTCAGATCCTTCGATAGAAGAAATGAGGAAGTTGTCTGTGATCAGAAACTCCGACCAAATC  
TCCCAAACAGTGGCAAAGCTGTGAAGCGCTGCGGGTCATGGGAAGAATAATGCGTGAGTGTGACGCGC  
CAACGGGCGAGCAGCCTGACAGCCCTGCGCGTGAAGAAGACCATCTCCAGCTGTGTGTCAGGAAGAC  
TGTAAGCT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2045\\_f01.zip](https://cdn.origene.com/chromatograms/ja2045_f01.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001111030

**Insert Size:** 1482 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).

**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:**

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\\_001111030.1](#), [NP\\_001104500.1](#)

**RefSeq Size:** 9033 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 269275

**UniProt ID:** [Q8K348](#)

**Cytogenetics:** 2 C1.1

**Gene Summary:** Serine/threonine protein kinase which forms a receptor complex on ligand binding. The receptor complex consisting of 2 type II and 2 type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators, SMAD2 and SMAD3. Receptor for activin AB, activin B and NODAL. Plays a role in cell differentiation, growth arrest and apoptosis.[UniProtKB/Swiss-Prot Function]