

## Product datasheet for **MR230268**

### **Acvr11 (NM\_001277257) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acvr11 (NM_001277257) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acvr11
Synonyms:	Acvr1k1; AI115505; AI427544; Alk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230268 representing NM\_001277257  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCTTGGGGAGCTTCAAGGGCCTTTTGTGCTGTGCGGTGGCCTTGGCCTAACCCAGGGGAGACT  
 TGGCGAAGCCTTCCAAGCTGGTGAAGTGAAGTGTGAGAGCCCACTGCAAGAGACCATTCTGCCAGGG  
 GTCATGGTGCACAGTGGTGTGTTTCGAGAGCAGGGCAGGCACCCCAAGTCTATCGGGGCTGCGGGAGC  
 CTGAACCAGGAGCTCTGCTTGGGACGTCCACAGAGTTTCTGAACCATCACTGCTGCTATAGATCCTTCT  
 GCAACCACAACGTGTCTCTGATGCTGGAGGCCACCCAACTCCTTCGAGGAGCCAGAAGTTGATGCCTA  
 TCTGCCTCTGATCCTGGTCTGTGCTGGCCTTGGCGTCTGGTGGCCCTGGGTGCTCTGGGCTTGTGG  
 CGTGTCCGGCGGAGGCAGGAGAAGCAGCGGGATTTCACAGTACCTGGCGAGTCCAGTCTCATCTGA  
 AGGCATCTGAACAGGCAGACAGCATGTTGGGGACTTCTGGACAGCGACTGTACTACGGCGAGCGGCTC  
 GGGGCTCCCTTCTTGGTGCAGAGGACGGTAGCTCGGCAGGTTGCGCTGGTAGAGTGTGGGAAAGGGC  
 CGATATGGTGAAGTGTGGCGCGGTTTCGTGGCATGGCGAGAGTGTGGCGGTCAAGATTTCTCCTCAGAG  
 ATGAGCAGTCTGGTTCGGGAGACGGAGATCTACAACACAGTCTGCTTAGACACGACAACATCCTAGG  
 CTTTCATCGCCTCCGACATGACTTCGCGGAACCTCGAGCACGAGCTGTGGCTCATCACCCACTACCATGAA  
 CACGGCTCCCTCTATGACTTTCTGCAGAGGCAGACGCTGGAGCCCCAGTTGGCCCTGAGGCTAGCTGTGT  
 CCGCGGCTGCGGCTGGCGCACCTACATGTGGAGATCTTTGGCACTCAAGGCAAACCAGCCATTGCCCA  
 TCGTGACCTCAAGAGTCGCAATGTGCTGGTCAAGAGTAACTTGCAGTGTGCATTGCAGACCTGGGACTG  
 GCTGTGATGCACACAAAGCAGCGATTACCTGGATATCGGCAACAACCCCGAGTGGGTACCAAAAGAT  
 ACATGGCACCCGAGGTGCTGGATGAGCACATCCGCACAGACTGCTTTGAGTCGTACAAGTGGACAGACAT  
 CTGGGCTTTGGCTAGTGTATGGGAGATCGCCCGGCGGACCATCATCAATGGCATTGTGGAGGATTAC  
 AAGCCACCTTTCTATGACATGGTACCAATGACCCAGTTTTGAGGACATGAAAAAGGTGGTGTGCGTTG  
 ACCAGCAGACACCCACCATCCCTAACCGGCTGGCTGCAGATCCGGTCTCTCCGGCTGGCCAGATGAT  
 GAGAGAGTGTGGTACCCCAACCCCTCTGCTCGCCTCACCGCACTGCGCATAAAGAAGACATTGCAGAAG  
 CTCAGTACAATCCAGAGAAGCCCAAAGTGATTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230268 representing NM\_001277257  
 Red=Cloning site Green=Tags(s)

MTLGSFRRGLML SVALGLTRGDLAKPSKLVNCTCESPHCKRPFQGSWCTVVLVREQGRHPQVYRGGCS  
 LNQELCLGRPTEFLNHHCCYRSFCNHNVSLMLEATQTPSEEPVDAYLPLILGPVLALPVLVALGALGLW  
 RVRRRQEKQRDLHSDLGESSLILKASEQADSM LGDFLSDCTTGSGLPFLVQRTVARQVALVECVGKG  
 RYGEVWRGSHGESVAVKIFSSRDEQSWFRETEIYNTVLLRHDNILGFIASDMSRNSSTQLWLITHYHE  
 HGSLYDFLQRQTLEPQLALRLAVSAACGLAHLHVEIFGTQGKPAIAHRDLKSRNVLVKSNLQCCIADLGL  
 AVMHSQSSDYLDIGNNPRVGTKRYMAPEVLDEHIRTDCFESYKWDIWFGLVLEIARRTIINGIVEDY  
 KPPFYDMVPNDPSFEDMKKVVVDQQTPTIPNRLAADPVL SGLAQMRECYWPNPSARLTALRIKTLQK  
 LSHNPEKPKVIH

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001277257

**ORF Size:** 1506 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001277257.1](#), [NP\\_001264186.1](#)

**RefSeq Size:** 3602 bp

**RefSeq ORF:** 1509 bp

**Locus ID:** 11482

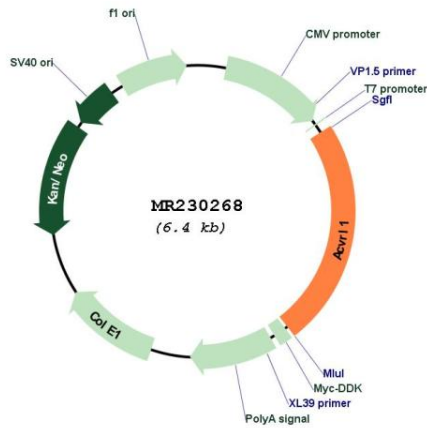
**UniProt ID:** [Q61288](#)

**Cytogenetics:** 15 F1

**MW:** 56.5 kDa

**Gene Summary:** Type I receptor for TGF-beta family ligands BMP9/GDF2 and BMP10 and important regulator of normal blood vessel development. On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. May bind activin as well.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR230268