

## Product datasheet for **RR205137**

### **Acvr11 (NM\_022441) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acvr11 (NM_022441) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acvr11
Synonyms:	R-3; R3; SETHKIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR205137 representing NM\_022441  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCCTGGGGATTTCCGAAGGCTCTTTTGTAGTGTGCGGTGGCCTTGGCCTAACTAAGGGAGACT  
 TGGTGAAGCCCTCCAGGGTCCAGCTGGTAACTGCACTTGTGAGAACCACACTGCAAGAGGCCAACTCTG  
 CCAGGGGGCATGGTGCACAGTGGTGTAGTTCGAGAGCAGGGCAGGCACCCCCAGGTCTATCGGGCTGC  
 GGGAGCCTGAACCAGGAGCTCTGCCTGGGACGTCCACGGAGTTTGTGAACCATCACTGCTGCTATAGAT  
 CCTTCTGCAACCACAATGTGTCCCTGATGCTGGAGGCCACCCAACTCCTTCGGAGGAGCCAGAAGTAGA  
 TGCCCATCTGCCTCTGATCCTGGGTCCCGTGTGGCCTTGTGGTCTGGTGGCCTGGGCACTCTGGGC  
 TTGTGGCGTGTCCGGAGAAGGCAGGAGAAGCAGCGGGTCTGCACAGTGACCTGGCGAGTCCAGTCTCA  
 TCCTGAAGGCATCGAACAGGGAGACAGCATGTTGGGGACTTCTGGTCAAGGACTGTACCACAGGCAG  
 CGGCTCAGGGCTACCTTCTTGGTGCAGAGGACAGTAGCCGACAGGTTGCACTGGTGGAGTGTGTGGGA  
 AAGGGCCGATATGGCGAGGTGTGGCGCGTTTCGTGGCATGGCGAGAGTGTGGCGTCAAGATTTCTCCT  
 CACGAGATGAGCAGTCTGGTCCGGGAGACAGAGATCTACAACACAGTTCTGCTTAGACACGACAACT  
 CCTAGGCTTATCGCCTCCGACATGACCTCGCGAACTCCAGCACGCAGCTGTGGCTTATACCCACTAC  
 CACGAGCATGGCTCCCTCTATGACTTTCTGCAGAGGCAGACGCTGGAGCCCCAGTTGGCCCTGAGGCTGG  
 CTGTGTCCGCGGCTGCGGCTGGCGCACCTGCATGTAGAGATCTTTGGCACTCAAGGCAAACAGCCAT  
 CGCCCATCGTGACCTCAAGAGCCCAACGTGCTGGTCAAGAGCAACTGCAGTGTGCATTGCAGACCTG  
 GGATTGGCTGTGATGCACTCGCAAAGCAGCGATTACCTGGACATTGGTAACAACCCCGAGTGGGTACCA  
 AGAGATACATGGCACCCGAGGTGCTGGATGAGCAGATCCGCACAGACTGTTTTGAGTCTGACAAGTGGAG  
 AGACATCTGGGCCTTCGGCTTAGTGCTATGGGAGATTGCCCGGGGACCATCATCAATGGCATTGTGGAG  
 GACTACAGGCCACCTTCTATGACATGGTACCCAAAGACCCAGTTTGGAGACATGAAAAAGTGGTGT  
 GTGTTGACCAGCAGACCCCAACCTCCCTAACCAGCTGGCAGCAGATCCGGTCTCTCCGGGCTGGCCCA  
 GATGATGCGAGAGTGTGGTACCCCAACCCCTCCGCTCGCCTCACCGCACTGCGCATAAAGAAGACATTA  
 CAGAAGCTCAGCCAGAATCCAGAGAAACCCAAAGTGATTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR205137 representing NM\_022441  
 Red=Cloning site Green=Tags(s)

MTLGI FRRVFLMLSVALGLTKGDLVKPSRQGLVNCTENPHCKRPI CQGAWCTVVLVREQGRHPQVYRGC  
 GSLNQELCLGRPTEFVNHHCYRSFCNHNVSMLLEATQTPSEEPEVDAHLPLILGPVLALLVLVALGTLG  
 LWRVRRRQEKQRGLHSDLGESSLILKASEQGDMSLGDFLVSDCTTGSGLPFLVQRTVARQVALVECVG  
 KGRYGEVWRGSHGESVAVKIFSSRDEQSWFRETEIYNTVLLRHDNILGFIASDMTSRNSSTQLWLITHY  
 HEHGSLYDFLQRQTLEPQLALRLAVSAACGLAHLHVEIFGTQGKPAIAHRDLKSRNVLVKSNLQCCIADL  
 GLAVMHSQSSDYLDIGNNPRVGTKRYMAPEVLDEQIRTDCFESYKWTDIWAFGLVLWEIARRTIINGIVE  
 DYRPPFYDMVPNDPSFEDMKKVVCDVQQTPTIPNRLAADPVL SGLAQMMRECWYPNPSARLTALRIKKT  
 LQKLSQNPEKPKVIH

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2299\\_g05.zip](https://cdn.origene.com/chromatograms/ja2299_g05.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:**

NM\_022441

**ORF Size:**

1512 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:**

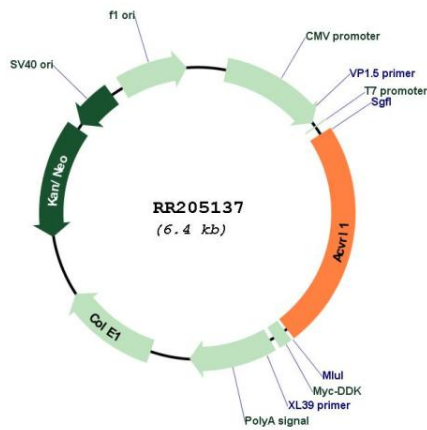
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**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\\_022441.2, NP\\_071886.1](#)  
**RefSeq Size:** 3540 bp  
**RefSeq ORF:** 1515 bp  
**Locus ID:** 25237  
**UniProt ID:** [P80203](#)  
**Cytogenetics:** 7q36  
**MW:** 57.2 kDa  
**Gene Summary:** may play a role in TGF-beta mediated transmembrane signaling in blood vessels [RGD, Feb 2006]

**Product images:**



Circular map for RR205137