

## Product datasheet for **RR206132**

### **Acvr1 (NM\_024486) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acvr1 (NM_024486) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acvr1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR206132 representing NM\_024486  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTCGATGGAGCAATGATCCTTTCTGTGCTAATGATGATGGCTCTCCCTCCCGAGTATGGAAGATG  
 AGGAGCCCAAGGTCAACCCGAAGCTTTACATGTGTGTGTGAGGGCCTCTCCTGCGGGAACGAGGACCA  
 CTGTGAGGGCCAGCAGTGTTTTTCTCCCTGAGCGTCAATGATGGCTTCCGCGTCTACCAGAAGGGCTGC  
 TTT**CAGTCTATGAGCAGGGGAAGATGACGTGTAAGACCCCGCCGTCGCCTGGCCAGGCTGTGGAGTGT**  
 GCCAAGGGGACTGGTGAACAGGAACGTCACGGCCGGCTGCCACTAAAGGGAAATCCTCCCTGGATC  
 GCAGAACTCCACCTGGAAGTTGGCCTTATCATCTCTCCGTGGTGTTCGCGTATGCCTTTTCGTTGC  
 ATCCTTGGCGTTGCTCTCAGGAAGTTAAAGGCGCAATCAAGAGCGCCTGAACCCAGAGACGTGGAGT  
 ACGGTACTATCGAAGGGCTCATCACCACCAACGTCGGAGATAGCACTCTAGCGGAATTACTAGATCACTC  
 ATGTACATCAGGAAGTGGCTCCGGTCTTCTTTCTGGTACAGAGAAGTGGCTCGACAGATAACCTG  
 TTGGAGTGTGTCGGGAAGGGCCGGTATGGAGAAGTGTGGAGGGGAGCTGGCAAGGCGAAAATGTTGCTG  
 TGAAGATCTTCTCCTCCCGTATGAGAAGTCGTGGTTCAGGGAGACAGAATTGTACAACACGGTTATGCT  
 GAGGCATGAGAATATCTTAGGTTTCATTGCTTCAGACATGACCTCTAGACTCCAGTACCCAGCTGTGG  
 CTCATTACACATTACCACGAAATGGGATCGTTGTATGACTACCTTCAGCTCACCCTCTGGACACGGTTA  
 GCTGCCTTCGGATCGTGTGTCCATAGCCAGCGGCCTTGACACTTGACATAGAGATATTTGGGACCCA  
 GGGGAAGTCTGCCATCGCCACCGAGATCTAAAGAGCAAAAACATCCTCGTGAAGAAGAACGGACAGTGC  
 TGCATAGCAGATTTGGGCTGGCAGTCATGCATTCCCAGAGCACGAATCAGCTTGATGTGGGAAACAACC  
 CCCGTGTGGGACCAAGCGCTACATGGCCCTGAAGTGCCTTGATGAAACCATCCAAGTGGATTGCTTTGA  
 TTCTTATAAGAGGGTTCGATATTTGGGCCTTTGGCCTCGTTCTGTGGGAAGTGGCCAGGAGGATGGTGAGC  
 AATGGTATAGTGAAGATTACAAGCCACATTCTATGATGTTGTTCCCAATGACCCAAAGTTTGAAGATA  
 TGAGGAAAGTTGTCTGTGTGGATCAACAGAGGCCAAACATACCTAACAGATGGTTCTCAGACCCGACATT  
 AACTTCTCTGGCGAAGCTGATGAAAGAATGCTGGTACCAGAACCCATCCGCCAGACTCACAGCTCTACGT  
 ATCAAAAAGACTTTGACCAAAATTGATAACTCCCTAGACAAATAAAACTGACTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206132 representing NM\_024486  
 Red=Cloning site Green=Tags(s)

MVDGAMILSVLMMALPSPSMEDEEPEKVNPKLYMCVCEGLSCGNEDHCEGQQCFSSLSVNDGFRVYQKGC  
 FQVYEQGKMTCKTPPSGQAVECCQGDWNRNVTARLPTKGSFPGSQNFHLEVGLIILSVVFAVCLFAC  
 ILGVALRKFKRRNQERLNPRDVEYGTIEGLITTNVGDSTLAELLDHSCTSGSGSGLPFLVQRTVARQITL  
 LECVKGGRYGEVWRGSWQGENVAVKIFSSRDEKSWFRETEL YNTVMLRHENILGF IASDMSRHSSTQLW  
 LITHYHEMGS LYDYLQLTTLDTVSLRIVLSIASGLAHLHIEIFGTQGSIAIHRDLKSKNILVKKNGQC  
 CIADLGLAVMHSQSTNQLDVGNPRVGTKRYMAPEVLDETIQVDCFDYSYKRVDIWAFLVLEVARRMVS  
 NGIVEDYKPPFYDVVPNDPSFEDMRKVVCVDQQRPNIPNRWFSPTLTLAKLMKECWYQNP SARLTALR  
 IKKTLTKIDNSLDKLTDC

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

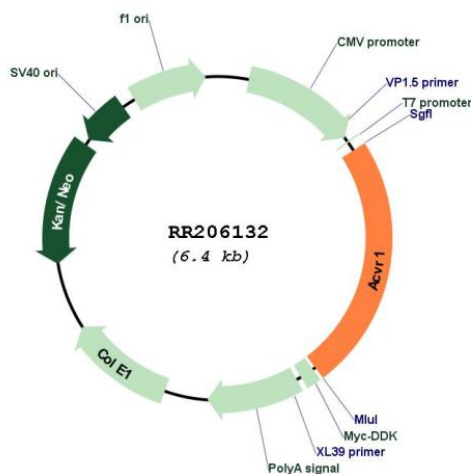
**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



## Plasmid Map:



**ACCN:** NM\_024486

**ORF Size:** 1527 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\\_024486.1](#), [NP\\_077812.1](#)

**RefSeq Size:** 1780 bp

**RefSeq ORF:** 1530 bp

**Locus ID:** 79558

**UniProt ID:** [P80201](#)

**Cytogenetics:** 3q21

**MW:** 57.2 kDa

**Gene Summary:** potential transmembrane protein serine kinase that acts as an activin receptor [RGD, Feb 2006]