

Product datasheet for **MC217129**

Acvr1 (NM_001110205) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Acvr1 (NM_001110205) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Acvr1 |
| Synonyms: | ActR-I; ActRIA; Acvr; Acvr1k2; Alk-2; ALK2; Alk8; D330013D15Rik; SKR1; Tsk7L |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC217129 representing NM_001110205
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTCGATGGAGTAATGATCCTTCCTGTGCTAATGATGATGGCTTCCCTTCCCGAGTGTGGAAGATG
 AGAAGCCCAAGGTCAACCAGAACTTTACATGTGTGTGTGAGGGCCTCCTCGCGGAACGAGGACCA
 CTGTGAAGGCCAGCAGTGTTTTTCTTCTGAGCATCAACGATGGCTTCCACGTCTACCAGAAGGGCTGC
 TTT**CAGGTTT**ATGAGCAGGGGAAGATGACGTGTAAGACCCCGCCGTACCTGGCCAGGCTGTGGAGTGT
 GCCAAGGGGACTGGTGTAA**CAGGAACAT**CACGGCCAGCTGCCACTAAAGGGAAGTCTTCCCGGAAC
 ACAGAATTTCCACCTGGAAGTTGGCCTTATCATCTCTCGGTGGTGTTCAGTATGTCTTTTAGCTTGC
 ATCCTTGGAGTTGCTCTCAGGAAGTTAAGAGACGCAATCAAGAGCGCCTGAACCCAGAGACGTGGAGT
 ATGGTACCATTGAAGGGCTCATCACCACCAATGTGGGAGACAGCACTCTAGCGGAACTACTAGATCACTC
 GTGTACATCAGGAAGTGGCTCCGGTCTTCTTTCTGGTACAGAGAACGGTGGCTCGCCAGATAACCTG
 TTGGAGTGTGTCGGGAAGGGCCGGTATGGAGAAGTATGGAGGGGAGCTGGCAAGGCGAAAATGTCGCTG
 TGAAGATCTTCTCTCCCGAGACGAGAAGTCATGGTTCAGGGAGACGGAATTGTACAACACTGTGATGTT
 GAGGCATGAAAATATCTTAGGTTTCATCGCTTCAGACATGACCTCCAGACACTCCAGTACCCAGCTGTGG
 CTCATCACACATTACCATGAAATGGGATCGTTGTATGACTACCTTCAGCTCACTACTCTGGATACGGTTA
 GCTGCCTTCGGATTGACTGTCCATAGCCAGCGGCCTTGCCCATTTGCACATAGAGATATTTGGACCCA
 AGGGAAGTCCGCCATTGCCATCGAGATCTGAAGAGCAAAAACATCCTGGTGAAGAAGATGGACAGTGC
 TGCATAGCAGATTTGGCCTGGCAGTCA**TGCAT**TCCAGAGCACAAACCAGCTTGATGTGGGAAACAACC
 CCCGTGTGGGGACCAAGCGCTACATGGCTCCGGAAGTCTCGATGAAACCATCCAAGTGGATTGCTTTGA
 TTCTTATAAGAGGGTCGATATTTGGGCCTTTGGCCTTGTCTGTGGGAAGTGGCCAGCGAATGGTGAGC
 AATGGTATAGTGAAGATTACAAGCCACATTCTATGATGTGGTCCCAATGACCCAAGTTTGAAGATA
 TGAGGAAAGTTGTCTGTGTGGATCAACAGAGGCCAAACATACCTAACAGATGGTTCTCAGACCCGACATT
 AACTTCTCTGGCGAAGCTGATGAAAGAGTGTGGTATCAGAACCCATCCGCAAGACTCACAGCTCTACGT
 ATCAAAAAGACTTTGACCAAAATCGATAATTCCTAGACAAATAAAAACTGACTGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001110205

Insert Size: 1530 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).

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| Reconstitution Method: | <ol style="list-style-type: none">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: | <u>NM_001110205.1, NP_001103675.1</u> |
| RefSeq Size: | 2790 bp |
| RefSeq ORF: | 1530 bp |
| Locus ID: | 11477 |
| UniProt ID: | <u>P37172</u> |
| Cytogenetics: | 2 C1.1 |
| Gene Summary: | <p>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. Receptor for activin. May be involved in left-right pattern formation during embryogenesis. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. All five variants encode the same protein.</p> |