

Product datasheet for **MC217114**

Acvr1 (NM_007394) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acvr1 (NM_007394) 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: >MC217114 representing NM_007394
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTCGATGGAGTAATGATCCTTCCTGTGCTAATGATGATGGCTTCCCTTCCCGAGTGTGGAAGATG
 AGAAGCCCAAGGTCAACCAGAACTTTACATGTGTGTGTGAGGGCCTCCTCGCGGAACGAGGACCA
 CTGTGAAGGCCAGCAGTGTTTTTCTTCTGAGCATCAACGATGGCTTCCACGTCTACCAGAAGGGCTGC
 TTT**CAGGTTT**ATGAGCAGGGGAAGATGACGTGTAAGACCCCGCCGTACCTGGCCAGGCTGTGGAGTGCT
 GCCAAGGGGACTGGTGTAA**CAGGAACAT**CACGGCCAGCTGCCACTAAAGGGAAGTCTTCCCGGAAC
 ACAGAATTTCCACCTGGAAGTTGGCCTTATCATCTCTCGGTGGTGTTCAGATATGCTTTTAGCTTGC
 ATCCTTGGAGTTGCTCTCAGGAAGTTAAGAGACGCAATCAAGAGCGCCTGAACCCAGAGACGTGGAGT
 ATGGTACCATTGAAGGGCTCATCACCACCAATGTGGGAGACAGCACTCTAGCGGAACTACTAGATCACTC
 GTGTACATCAGGAAGTGGCTCCGGTCTTCTTTCTGGTACAGAGAACGGTGGCTCGCCAGATAACCTG
 TTGGAGTGTGTCGGAAGGGCCGGTATGGAGAAGTATGGAGGGGAGCTGGCAAGGCGAAAATGTCGCTG
 TGAAGATCTTCTCTCCCGAGACGAGAAGTCATGGTTCAGGGAGACGGAATTGTACAACACTGTGATGTT
 GAGGCATGAAAATATCTTAGGTTTCATCGCTTCAGACATGACCTCCAGACACTCCAGTACCCAGCTGTGG
 CTCATCACACATTACCATGAAATGGGATCGTTGTATGACTACCTTCAGCTCACTACTCTGGATACGGTTA
 GCTGCCTTCGGATTGACTGTCCATAGCCAGCGGCCTTGCCCATTTGCACATAGAGATATTTGGGACCCA
 AGGGAAGTCCGCCATTGCCATCGAGATCTGAAGAGCAAAAACATCCTGGTGAAGAAGATGGACAGTGC
 TGCATAGCAGATTTGGGCTGGCAGTCA**TGCAT**TCCAGAGCACAAACCAGCTTGATGTGGGAAACAACC
 CCCGTGTGGGGACCAAGCGCTACATGGCTCCGGAAGTCTCGATGAAACCATCCAAGTGGATTGCTTTGA
 TTCTTATAAGAGGGTCGATATTTGGGCCTTTGGCCTTGTCTGTGGGAAGTGGCCAGCGAATGGTGAGC
 AATGGTATAGTGAAGATTACAAGCCACATTCTATGATGTGGTCCCAATGACCCAAAGTTTGAAGATA
 TGAGGAAAGTTGTCTGTGTGGATCAACAGAGGCCAAACATACCTAACAGATGGTTCTCAGACCCGACATT
 AACTTCTCGGCAAGCTGATGAAAGAGTCTGGTATCAGAACCCATCCGCAAGACTCACAGCTCTACGT
 ATCAAAAAGACTTTGACCAAAATCGATAATTCCTAGACAAATAAAAACTGACTGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_007394

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).

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:	NM_007394.3 , NP_031420.2
RefSeq Size:	3067 bp
RefSeq ORF:	1530 bp
Locus ID:	11477
UniProt ID:	P37172
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 (2) differs in the 5' UTR compared to variant 1. All five variants encode the same protein.</p>