

Product datasheet for **MC228058**

Acvr11 (NM_001277258) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acvr11 (NM_001277258) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acvr11
Synonyms:	Acvr1k1; AI115505; AI427544; Alk1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228058 representing NM_001277258
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCTTGGGGAGCTTCAAGAGGGCCTTTTGTGCTGTGCGGTGGCCTTTGGCCTAACCCAGGGGAGACT
 TGGCGAAGCCTTCCAAGCTGGTGAAGTGCCTTGTGAGAGCCACACTGCAAGAGACCATTCTGCCAGGG
 GTCATGGTGCACAGTGGTCTGGTTCGGGAGCAGGGCAGGCACCCAGGTCTATCGGGGCTGCGGGAGC
 CTGAACCAGGAGCTCTGCTTGGGACGTCCACAGAGTTTCTGAACCATCACTGCTGCTATAGATCCTTCT
 GCAACCACAACGTGTCTCTGATGCTGGAGGCCACCCAACTCCTTCGAGGAGCCAGAAGTTGATGCCCA
 TCTGCCTCTGATCCTGGTCTGTGCTGGCCTTGGCGGTCTGGTGGCCCTGGGTGCTCTAGGCTTGTGG
 CGTGTCCGGCGGAGGCAGGAGAAGCAGCGGGATTTGCACAGTGACCTGGGCGAGTCCAGTCTCATCTGA
 AGGCATCTGAACAGGCAGACAGCATGTTGGGGACTTCTGGACAGCGACTGTACTACGGGCAGCGGCTC
 GGGGCTCCCTTCTTGGTGCAGAGGACGGTAGCTCGGCAGGTTGCGCTGGTAGAGTGTGTGGAAAGGGC
 CGATATGGTGAGGTGTGGCGCGGTTTCGTGGCATGGCGAGAGTGTGGCGGTCAAGATTTCTCCTCACGAG
 ATGAGCAGTCTGGTTCGGGAGACGGAGATCTACAACACAGTTCTGCTTAGACACGACAACATCCTAGG
 CTTTCATCGCCTCCGACATGACTTTCGCGGAACCTCGAGCAGCAGCTGTGGCTCATCACCCTACCATGAA
 CACGGCTCCCTCTATGACTTTCTGCAGAGGCAGACGCTGGAGCCCGAGTTGGCCCTGAGGCTAGCTGTGT
 CCGCGGCTGCGGCTGGCGCACCTACATGTGGAGATCTTTGGCACTCAAGGCAAACCAGCCATTGCCCA
 TCGTGACCTCAAGAGTCGCAATGTGCTGGTCAAGAGTAACTTGCAGTGTGCATTGCAGACCTGGGACTG
 GCTGTGATGCACTCACAAGCAGCGATTACCTGGATATCGGCAACAACCCCGAGTGGGTACCAAAAGAT
 ACATGGCACCCGAGGTGCTGGATGAGCACATCCGCACAGACTGCTTTGAGTCGTACAAGTGGACAGACAT
 CTGGGCTTTGGCCTAGTGTATGGGAGATCGCCCGGCGGACCATCATCAATGGCATTGTGGAGGATTAC
 AGGCCACCTTTCTATGACATGGTACCAATGACCCAGTTTTGAGGACATGAAAAAGGTGGTGTGCGTTG
 ACCAGCAGACACCACCATCCCTAACCGGCTGGCTGCAGATCCGGTCTCTCCGGCTGGCCAGATGAT
 GAGAGAGTGTGGTACCCCAACCCTCTGCTCGCCTCACCGCACTGCGCATAAAGAAGACATTGCAGAAG
 CTCAGTACAATCCAGAGAAGCCCAAAGTGATTCACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001277258
- Insert Size:** 1509 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001277258.1](#), [NP_001264187.1](#)

RefSeq Size: 3571 bp

RefSeq ORF: 1509 bp

Locus ID: 11482

UniProt ID: [Q61288](#)

Cytogenetics: 15 F1

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] Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, and 4 all encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.