

Product datasheet for **MR208074**

Acvr11 (NM_009612) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acvr11 (NM_009612) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acvr11
Synonyms:	Acvr1k1; AI115505; AI427544; Alk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208074 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCTTGGGGAGCTTCAAGGGCCCTTTGATGCTGTGCGGTGGCCTTGGCCTAACCCAGGGAGACT
 TGGCGAAGCCTTCCAAGCTGGTGAAGTGAAGTGTGAGAGCCCACTGCAAGAGACCATTCTGCCAGGG
 GTCATGGTGCACAGTGGTCTGGTTCGAGAGCAGGGCAGGCACCCCAAGTCTATCGGGGCTGCGGGAGC
 CTGAACCAGGAGCTCTGCTTGGGACGTCCACAGAGTTTCTGAACCATCACTGCTGCTATAGATCCTTCT
 GCAACCACAACGTGTCTCTGATGCTGGAGGCCACCCAACTCCTTCGAGGAGCCAGAAGTTGATGCCTA
 TCTGCCTCTGATCCTGGTCTGTGCTGGCCTTGGCGGTCTGGTGGCCCTGGGTGCTCTGGGCTTGTGG
 CGTGTCCGGCGGAGGCAGGAGAAGCAGCGGGATTTGCACAGTGACCTGGGCGAGTCCAGTCTCATCTGA
 AGGCATCTGAACAGGCAGACAGCATGTTGGGGACTTCTGGACAGCGACTGTACTACGGGCAGCGGCTC
 GGGGCTCCCTTCTTGGTGCAGAGGACGGTAGCTCGGCAGGTTGCGCTGGTAGAGTGTGGGAAAGGGC
 CGATATGGTGAGGTGTGGCGCGGTTCTGGCATGGCGAGAGTGTGGCGGTCAAGATTTCTCCTCAGCAG
 ATGAGCAGTCTGGTCCGGGAGACGGAGATCTACAACACAGTTCTGCTTAGACACGACAACATCCTAGG
 CTTTCATCGCCTCCGACATGACTTTCGCGAACTCGAGCACGACGCTGTGGCTCATCACCCTACCATGAA
 CACGGCTCCCTCTATGACTTTCTGCAGAGGCAGACGCTGGAGCCCAAGTTGGCCCTGAGGCTAGCTGTGT
 CCGCGGCTGCGGCTGGCGCACCTACATGTGGAGATCTTTGGCACTCAAGGCAAACCAGCCATTGCCCA
 TCGTGACCTCAAGAGTCGCAATGTGCTGGTCAAGAGTAACTTGCAGTGTGCATTGCAGACCTGGGACTG
 GCTGTGATGCACTCACAAGCAGCGATTACCTGGATATCGGCAACAACCCCGAGTGGGTACCAAAAGAT
 ACATGGCACCCGAGGTGCTGGATGAGCACATCCGCACAGACTGCTTTGAGTCGTACAAGTGGACAGACAT
 CTGGGCTTTGGCTAGTGTATGGGAGATCGCCCGCGGACCATCATCAATGGCATTGTGGAGGATTAC
 AAGCCACCTTTCTATGACATGGTACCAATGACCCAGTTTTGAGGACATGAAAAAGGTGGTGTGCGTTG
 ACCAGCAGACACCACCATCCCTAACCGGCTGGCTGCAGATCCGGTCTCTCCGGGCTGGCCAGATGAT
 GAGAGAGTGTGGTACCCCAACCCTCTGCTCGCCTCACCGCACTGCGCATAAAGAAGACATTGCAGAAG
 CTCAGTACAATCCAGAGAAGCCCAAAGTGATTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208074 protein sequence
 Red=Cloning site Green=Tags(s)

MTLGSFRRGLML SVALGLTRGDLAKPSKLVNCTCESPHCKRPFQGSWCTVVLVREQGRHPQVYRGCGS
 LNQELCLGRPTEFLNHCCYRSFCNHVSLMLEATQTPSEEPVDAYLPLILGPVLALPVLVALGALGLW
 RVRRRQEKQRDLHSDLGESSLILKASEQADSM LGDFLSDCTTGSGLPFLVQRTVARQVALVECVGKG
 RYGEVWRGSHGESVAVKIFSSRDEQSWFRETEIYNTVLLRHDNILGFIASDMSRNSSTQLWLITHYHE
 HGSLYDFLQRQTLEPQLALRLAVSAACGLAHLHVEIFGTQKPAIAHRDLKSRNVLVKSNLQCCIADLGL
 AVMHSQSSDYLDIGNNPRVGTKRYMAPEVLDEHIRTDCFESYKWDIWFGLVLEIARRTIINGIVEDY
 KPPFYDMVPNDPSFEDMKKVVVDQQTPTIPNRLAADPVL SGLAQMRECYWPNPSARLTALRIKTLQK
 LSHNPEKPKVIH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_009612

ORF Size: 1509 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_009612.2](#), [NP_033742.2](#)

RefSeq Size: 3640 bp

RefSeq ORF: 1509 bp

Locus ID: 11482

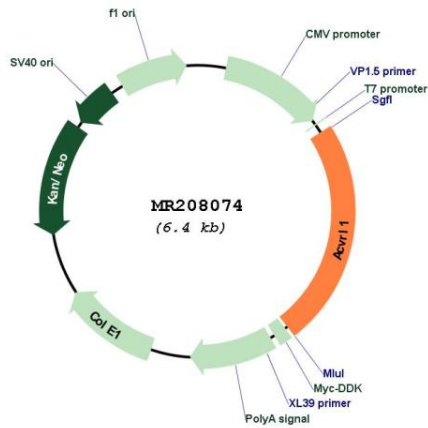
UniProt ID: [Q61288](#)

Cytogenetics: 15 F1

MW: 56.5 kDa

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]

Product images:



Circular map for MR208074