

Product datasheet for **MR230343**

Acvr11 (NM_001277255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acvr11 (NM_001277255) 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:

>MR230343 representing NM_001277255
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGGAAATCTCACCACATCTTCTCTCTATCTCCAAGGACCATGACCTTGGGGAGCTTCAGAAGGG
 GCCTTTTGATGCTGTCGGTGGCCTTTGGCTAACCAGGGGAGACTTGGCGAAGCCTTCCAAGCTGGTGAA
 CTGCACCTGTGAGAGCCACACTGCAAGAGACCATTCTGCCAGGGGTCTGGTGCACAGTGGTGCTGGTT
 CGGGAGCAGGGCAGGCACCCCAAGTCTATCGGGGCTGCGGGAGCCTGAACCAGGAGCTCTGCTGGGAC
 GTCCACAGAGTTTCTGAACCATCACTGCTGCTATAGATCCTTCTGCAACCACAACGTGTCTCTGATGCT
 GGAGGCCACCCAACTCCTTCGGAGGAGCCAGAAGTTGATGCCCATCTGCCTCTGATCCTGGTCTGTG
 CTGGCCTTGCCGGTCTGGTGGCCCTGGTGTCTAGGCTTGTGGCGTGTCCGGCGGAGGCAGGAGAAGC
 AGCGGGATTTGCACAGTGACCTGGGCGAGTCCAGTCTCATCCTGAAGGCATCTGAACAGGCAGACAGCAT
 GTTGGGGACTTCTGGACAGCGACTGTACTACGGGCAGCGGCTCGGGGCTCCCTTCTTGGTGCAGAGG
 ACGGTAGCTCGGCAGGTTGCGCTGGTAGAGTGTGTGGAAAGGGCCGATATGGTGAAGTGTGGCGCGTT
 CGTGGCATGGCGAGAGTGTGGCGGTCAAGATTTCTCCTCACGAGATGAGCAGTCTGGTCCGGGAGAC
 GGAGATCTACAACACAGTTCTGCTTAGACACGACAACATCCTAGGCTTCAATCGCCTCCGACATGACTTCG
 CGGAATCTGAGCAGCAGCTGTGGCTCATCACCCTACTACCATGAACACGGCTCCCTCTATGACTTTCTGC
 AGAGGCAGACGCTGGAGCCCCAGTTGGCCCTGAGGCTAGCTGTGTCCGGGCTGCGGCCTGGCGCACCT
 ACATGTGGAGATCTTTGGCACTCAAGGCAAAACAGCCATTGCCCATCGTGACCTCAAGAGTCGCAATGTG
 CTGGTCAAGAGTAACCTGCAGTGTTCATTGCAGACCTGGGACTGGCTGTGATGCACTCACAAAGCAGCG
 ATTACCTGGATATCGGCAACAACCCCGAGTGGGTACCAAAAGATACATGGCACCCGAGGCTGGATGA
 GCACATCCGCACAGACTGCTTTGAGTCGTACAAGTGGACAGACATCTGGGCTTTGGCCTAGTGTATGG
 GAGATCGCCCGGCGACCATCATCAATGGCATTGTGGAGGATTACAGGCCACCTTTCTATGACATGGTAC
 CCAATGACCCAGTTTTGAGGACATGAAAAAGGTGGTGTGCGTTGACCAGCAGACACCCACCATCCCTAA
 CCGGCTGGCTGCAGATCCGGTCTCTCCGGGCTGGCCAGATGATGAGAGAGTGTGGTACCCCAACCC
 TCTGCTCGCTCACCGCACTGCGCATAAAGAAGACATTGCAGAAGCTCAGTACAATCCAGAGAAGCCCA
 AAGTGATTCAC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230343 representing NM_001277255
 Red=Cloning site Green=Tags(s)

MAGNLTSSLSPRTMTLGSFRRGLLMLSVAFGLTRGDLAKPSKLVNCTCESPHCKRPFQGSWCTVVLV
 REQGRHPQYVRGCSLNQELCLGRPTFLNHCCYRSFCNHVSLMLEATQTPSEPEVDAHLPLILGPV
 LALPVLVALGALGLWRVRRRQEKQRDLHSDLGESSLILKASEQADSMLGDFLDSDCTTGSGLPFLVQR
 TVARQVALVECVGKGRYGEVWRGSHWGESVAVKIFSSRDEQSWFRETEIYNTVLLRHDNILGFIASDMS
 RNSSTQLWLITHYHEHGSLYDFLQRQTLRQLALRLAVSAACGLAHLHVEIFGTQKPAIAHRDLKSRNV
 LVKSNLQCCIADLGLAVMHSQSSDYLDIGNNPRVGTKRYMAPEVLDEHIRTDCFESYKWTDIWAFGLVLW
 EIARRTIINGIVEDYRPPFYDMVPNDPSFEDMKVVCVDQQTPTIPNRLAADPVL SGLAQMRECWPYPNP
 SARLTALRIKKTQLKLSHNPEKPKVIH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001277255

ORF Size: 1551 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_001277255.1](#), [NP_001264184.1](#)

RefSeq Size: 3663 bp

RefSeq ORF: 1554 bp

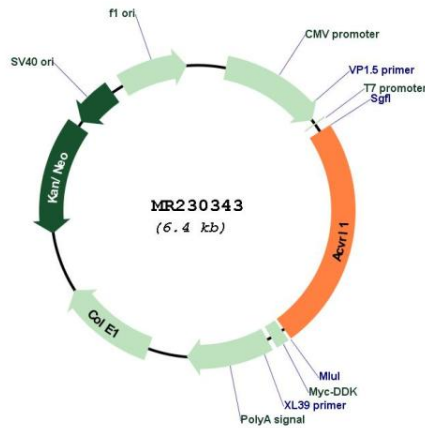
Locus ID: 11482

Cytogenetics: 15 F1

MW: 58.5 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 MR230343