

Product datasheet for **MR208188**

Acvr1 (NM_007394) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Acvr1 (NM_007394) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Acvr1 |
| Synonyms: | ActR-I; ActRIA; Acvr; Acvrlk2; Alk-2; ALK2; Alk8; D330013D15Rik; SKR1; Tsk7L |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MR208188 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTCGATGGAGTAATGATCCTTCCTGTGCTAATGATGATGGCTTCCCTTCCCGAGTGTGGAAGATG
 AGAAGCCCAAGGTCAACCAGAACTTTACATGTGTGTGTGAGGGCCTCTCCTGCGGGAACGAGGACCA
 CTGTGAAGGCCAGCAGTGTTTTTCTTCTGAGCATCAACGATGGCTTCCACGTCTACCAGAAGGGCTGC
 TTT**CAGGTTT**ATGAGCAGGGGAAGATGACGTGTAAGACCCCGCCGTACCTGGCCAGGCTGTGGAGTGCT
 GCCAAGGGGACTGGTGTAA**CAGGAACAT**CACGGCCAGCTGCCACTAAAGGGAAGTCTTCCCCGGAAC
 ACAGAATTTCCACCTGGAAGTTGGCCTTATCATCTCTCGGTGGTGTTCAGTATGCTTTTAGCTTGC
 ATCCTTGGAGTTGCTCTCAGGAAGTTAAGAGACGCAATCAAGAGCGCCTGAACCCAGAGACGTGGAGT
 ATGGTACCATTGAAGGGCTCATCACCACCAATGTGGGAGACAGCACTCTAGCGGAACTACTAGATCACTC
 GTGTACATCAGGAAGTGGCTCCGGTCTTCTTTCTGGTACAGAGAACGGTGGCTCGCCAGATAACCTG
 TTGGAGTGTGTCGGGAAGGGCCGGTATGGAGAAGTATGGAGGGGAGCTGGCAAGGCGAAAATGTCGCTG
 TGAAGATCTTCTCCTCCCGAGACGAGAAGTCATGGTTCAGGGAGACGGAATTGTACAACACTGTGATGTT
 GAGGCATGAAAATATCTTAGGTTTCATCGCTTCAGACATGACCTCCAGACACTCCAGTACCCAGCTGTGG
 CTCATCACACATTACCATGAAATGGGATCGTTGTATGACTACCTTCAGCTCACTACTCTGGATACGGTTA
 GCTGCCTTCGGATTGACTGTCCATAGCCAGCGGCCTTGCCCATTTGCACATAGAGATATTTGGGACCCA
 AGGGAAGTCCGCCATTGCCATCGAGATCTGAAGAGCAAAAACATCCTGGTGAAGAAGATGGACAGTGC
 TGCATAGCAGATTTGGGCTGGCAGTATGCATTCAGAGCACAACCAGCTTGATGTGGGAAACAACC
 CCCGTGTGGGACCAAGCGCTACATGGCTCCGGAAGTGCATGAAACCATCCAAGTGGATTGCTTTGA
 TTCTTATAAGAGGTCGATATTTGGGCCTTTGGCCTTGTCTGTGGGAAGTGGCCAGGCGAATGGTGAGC
 AATGGTATAGTGAAGATTACAAGCCACATTCTATGATGTGGTCCCAATGACCCAAGTTTGAAGATA
 TGAGGAAAGTTGTCTGTGTGGATCAACAGAGGCCAAACATACCTAACAGATGGTTCTCAGACCCGACATT
 AACTTCTCTGGCGAAGCTGATGAAAGAGTGTGGTATCAGAACCCATCCGCAAGACTCACAGCTCTACGT
 ATCAAAAAGACTTTGACCAAAATCGATAATTCCTAGACAAATAAAAACTGACTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208188 protein sequence
 Red=Cloning site Green=Tags(s)

MVDGVMIPLVLMMAFSPSPSVEDEKPKVNQKLYMCVCEGLSCGNEDHCEGQQCFSSLSINDGFHVYQKGC
 FQVYEQKMTCKTPPSPGQAVECCQGDWCNRNITAQLPTKGSFPGTQNFHLEVGLIILSVFVAVLLAC
 ILGVALRKFRRNQERLNPRDVEYGTIEGLITTNVGDSTLAELLDHCTSGSGSGLPFLVQRTVARQITL
 LECVKGGRYGEVWRGSWQGENVAVKIFSSRDEKSWFRETLYNTVMLRHENILGFIASDMT**SRHSSTQLW**
 LITHYHEMGSLYDYQLTTLDTVSCLRIVLSIASGLAHLHIEIFGTQGKSAIAHRDLKSKNILVKKNGQC
 CIADLGLAVMHSQSTNQLDVGNPRVGT**KRYMAPEV**LDETIQVDCFD**SYKRVDI**WAFGLVLWEVARRMVS
 NGIVEDYKPPFYDVVPNDPSFEDMRKVVCVDQQRPNIPNRWFSDPTLTS**LAKLMKECWYQ**NPSARLTALR
 IKKTLTKIDNSLDK**LKTDC**

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_007394

ORF Size: 1530 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_007394.3](#), [NP_031420.2](#)

RefSeq Size: 3067 bp

RefSeq ORF: 1530 bp

Locus ID: 11477

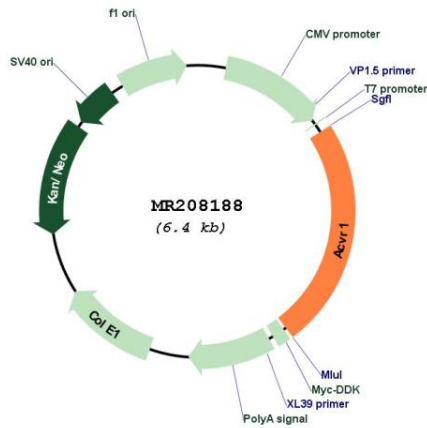
UniProt ID: [P37172](#)

Cytogenetics: 2 C1.1

MW: 57.2 kDa

Gene Summary: 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]

Product images:



Circular map for MR208188