

Product datasheet for **RC222334**

Activin A Receptor Type IB (ACVR1B) (NM_020327) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Activin A Receptor Type IB (ACVR1B) (NM_020327) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Activin A Receptor Type IB
Synonyms:	ACTRIB; ACVRLK4; ALK4; SKR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222334 representing NM_020327
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGTCGGCCGGAGCCTCCTCCTTCTTCCCCTTGTGTCTCCTGCTCGCCGGCAGCGCGGGT
 CCGGGCCCCGGGGTCCAGGCTCTGCTGTGCGGTGCACACAGCTGCCTCCAGGCCAACTACACGTGTGA
 GACAGATGGGCCTGCATGGTTTTCCATTTTCAATCTGGATGGGATGGAGCACCATGTGCGCACCTGCATC
 CCCAAAGTGGAGCTGGTCCCTGCCGGGAAGCCCTTCTACTGCCTGAGCTCGGAGGACCTGCGCAACACCC
 ACTGCTGTACACTGACTACTGCAACAGGATCGACTTGAGGGTGCCAGTGGTACCTCAAGGAGCCTGA
 GCACCCGTCCATGTGGGGCCCGGTGGAGCTGGTAGGCATCATCGCCGGCCCGGTGTTCTCTGTTCCTC
 ATCATCATATTGTTTTCTTGTCACTAATACTATCATCAGCGTGTCTATCACAACCGCCAGAGACTGGACA
 TGAAGATCCCTCATGTGAGATGTGTCTCTCAAAGACAAGACGCTCCAGGATCTTGTCTACGATCTCTC
 CACCTCAGGGTCTGGCTCAGGGTACCCTCTTTGTCCAGCGCACAGTGGCCGAACCATGTTTTACAA
 GAGATTATTGGCAAGGGTCGGTTTGGGGAAGTATGGCGGGCCCGCTGGAGGGTGGTGTGTGGCTGTGA
 AAATATCTCTTCTCGTGAAGAACGGTCTTGGTTCAGGGAAGCAGAGATATACCAGACGGTCATGCTGCG
 CCATGAAAACATCCTTGGATTTATTGCTGCTGACAATAAAGATAATGGCACCTGGACACAGCTGTGGCTT
 GTTCTGACTATCATGAGCACGGTCCCTGTTTATTCTGAACCGGTACACAGTGACAATTGAGGGGA
 TGATTAAGCTGGCCTGTCTGCTGCTAGTGGGCTGGCACACCTGCACATGGAGATCGTGGGCACCCAAGG
 GAAGCCTGGAATTGCTCATCGAGACTTAAAGTCAAAGAACATTCTGGTGAAGAAAATGGCATGTGTGCC
 ATAGCAGACCTGGGCCTGGTGTCCGTCATGATGCAGTCACTGACACCATTGACATTGCCCGAATCAGA
 GGGTGGGACCAAACGATACATGGCCCTGAAGTACTTGATGAAACCATTAATATGAAACACTTTGACTC
 CTTTAAATGTGCTGATATTTATGCCCTCGGGCTTGTATATTGGGAGATTGCTCGAAGATGCAATTCTGGA
 GGAGTCCATGAAGAATATCAGCTGCCATATTACGACTTAGTCCCTCTGACCCCTCCATTGAGGAAATGC
 GAAAGGTTGTATGTGATCAGAAGCTGCGTCCCAACATCCCAACTGGTGGCAGAGTTATGAGGTAAGAAG
 CTGGCCTCCTGCTGCTTCCCATCAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222334 representing NM_020327
 Red=Cloning site Green=Tags(s)

MAESAGASSFFPLVLLLAGSGSGPRGVQALLCACTSCLQANYTCETDGACMVSIFNLDGMEHHVRTCI
 PKVELVPAGKPFYCLSSDLRNTHCCYTDYCNRIDLRVPSGHLKEPEHPSMWGPVELVGIAGPVFLLFL
 IIIIVFLVINYHQRVYHNRQRLDMEDPSCSEMCLSKDKTLQDLVYDLSTSGSGSGLPLFVQRTVARTIVLQ
 EIIIGKGRFGEVWRGRWGGDVAVKIFSSREERSWFREAEIYQTVMLRHENILGFIAADNKDNGTWTQLWL
 VSDYHEHGSLFDYLNRYVTIEGMIKLALSAASGLAHLHMEIVGTQGKPGIAHRDLKSKNILVKKNGMCA
 IADLGLAVRHDAVTDIDIANQRVGTKRYMAPEVLDDETINMKHFDSFKCADIYALGLVYWEIARRCNCSG
 GVHEEYQLPYYDLVPSDPSIEEMRKVVCDQKLRPNIPNWWQSYEVRSWPPAAFPSA

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_020327

ORF Size: 1428 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_020327.2](#), [NP_064732.2](#)

RefSeq Size: 1783 bp

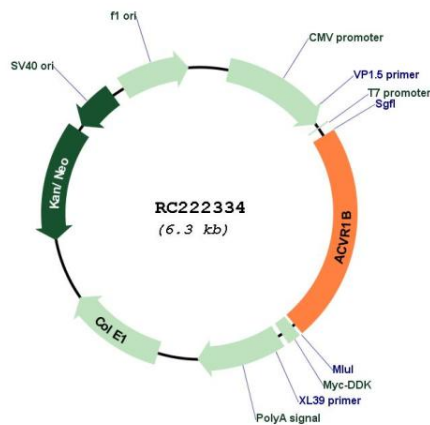
RefSeq ORF: 1362 bp

Locus ID: 91

UniProt ID: [P36896](#)

Cytogenetics:	12q13.13
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway
MW:	51.2 kDa
Gene Summary:	This gene encodes an activin A type IB receptor. Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I and two type II receptors. This protein is a type I receptor which is essential for signaling. Mutations in this gene are associated with pituitary tumors. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RC222334