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Product datasheet for SC119435

Activin Receptor Type IIB (ACVR2B) (NM_001106) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Activin Receptor Type IIB (ACVR2B) (NM_001106) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACVR2B
Synonyms:	ActR-IIB; ACTRIIB; HTX4
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None

Fully Sequenced ORF:

>OriGene ORF sequence for NM_001106 edited
ATGACGGCGCCCTGGGTGGCCCTCGCCCTCCTCTGGGGATCGCTGTGCGCCGGCTCTGGG
CGTGGGGAGGCTGAGACACGGGAGTGCATCTACTACAACGCCAACTGGGAGCTGGAGCGC
ACCAACCAGAGCGGCCTGGAGCGCTGCGAAGGCGAGCAGGACAAGCGGCTGCACTGCTAC
GCCTCCTGGCGCAACAGCTCTGGCACCATCGAGCTCGTGAAGAAGGGCTGCTGGCTAGAT
GACTTCAACTGCTACGATAGGCAGGAGTGTGTGGCCACTGAGGAGAACCCCCAGGTGTAC
TTCTGCTGCTGTGAAGGCAACTTCTGCAACGAACGCTTCACTCATTTGCCAGAGGCTGGG
GGCCCGGAAGTCACGTACGAGCCACCCCCGACAGCCCCCACCCTGCTCACGGTGCTGGCC
TACTCACTGCTGCCCATCGGGGGCCTTTCCCTCATCGTCCTGCTGGCCTTTTGGATGTAC
CGGCATCGCAAGCCCCCCTACGGTCATGTGGACATCCATGAGGACCCTGGGCCTCCACCA
CCATCCCCTCTGGTGGGCCTGAAGCCACTGCAGCTGCTGGAGATCAAGGCTCGGGGGCGC
TTTGGCTGTGTCTGGAAGGCCCAGCTCATGAATGACTTTGTAGCTGTCAAGATCTTCCCA
CTCCAGGACAAGCAGTCGTGGCAGAGTGAACGGGAGATCTTCAGCACACCTGGCATGAAG
CACGAGAACCTGCTACAGTTCATTGCTGCCGAGAAGCGAGGCTCCAACCTCGAAGTAGAG
CTGTGGCTCATCACGGCCTTCCATGACAAGGGCTCCCTCACGGATTACCTCAAGGGGAAC
ATCATCACATGGAACGAACTGTGTCATGTAGCAGAGACGATGTCACGAGGCCTCTCATAC
CTGCATGAGGATGTGCCCTGGTGCCGTGGCGAGGGCCACAAGCCGTCTATTGCCCACAGG
GACTTTAAAAGTAAGAATGTATTGCTGAAGAGCGACCTCACAGCCGTGCTGGCTGACTTT
GGCTTGGCTGTTCGATTTGAGCCAGGGAAACCTCCAGGGGACACCCACGGACAGGTAGGC
ACGAGACGGTACATGGCTCCTGAGGTGCTCGAGGGAGCCATCAACTTCCAGAGAGATGCC
TTCCTGCGCATTGACATGTATGCCATGGGGTTGGTGCTGTGGGAGCTTGTGTCTCGCTGC
AAGGCTGCAGACGGACCCGTGGATGAGTACATGCTGCCCTTTGAGGAAGAGATTGGCCAG
CACCCTTCGTTGGAGGAGCTGCAGGAGGTGGTGGTGCACAAGAAGATGAGGCCCACCATT
AAAGATCACTGGTTGAAACACCCGGGCCTGGCCCAGCTTTGTGTGACCATCGAGGAGTGC
TGGGACCATGATGCAGAGGCTCGCTTGTCCGCGGGCTGTGTGGAGGAGCGGGTGTCCCTG
ATTCGGAGGTCGGTCAACGGCACTACCTCGGACTGTCTCGTTTCCCTGGTGACCTCTGTC
ACCAATGTGGACCTGCCCCCTAAAGAGTCAAGCATCTAA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001106 unedited
NGGGTCGCATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACCAGGTTCATGGC
CCCTCCGGACTCGGCCCCTGCGCCCGGGGCCCGGGCCCAGCCCCGCCGCGCTATGCCTGA
GTCGGGCGCGCCCCGGCCCGTGCCCCGCCGCCGCCCCCCGGCCCCCGCGTCGCCCCGGAG
CCCGGGCCGCAGCCTGCGCCGCCCGCAGCGGCCCTGAGCCCGGCCCCGCCGACCGGCCCT
TGGAGCCCGAACGCTGCTCGGGGACGAAGGCGCAGGAAGCGCGCAGGGAACGAGACCGAA
GGAAGGAGCGGGAAGGAGAGCGCAGCCGCCGCCTGGCCCTGCGCGCCCCGGGAGCGCCGT
GCGGCCCTGCCCGCGGGCTCCGGGTGTGCGCGGGGCGGCGCCGCGGAACATGACGGCGCC
CTGGGTGGCCCTCGCCCTCCTCTGGGGATCGCTGTGCGCCGGCTCTGGGCGTGGGGAGGC
TGAGACACGGGAGTGCATCTACTACAACGCCAACTGGGAGCTGGAGCGCACCAACCAGAG
CGGCCTGGAGCGCTGCGAAGGCGAGCAGGACAAGCGGCTGCACTGCTACGCCTCCTGGCG
CAACAGCTCTGGCACCATCGAGCTCGTGAAGAAGGGCTGCTGGCTAGATGACTTCAACTG
CTACGATAGGCAGGAGTGTGTGGCCACTGAGGAGAACCCCCAGGTGTACTTCTGCTGCTG
TGAAGGCAACTTCTGCAACGAACGCTTCACTCATTTGCCAGAAGCTGGGGGCCCGGAAGT
CACGTACGAGCCACCCCCGACAGCCCCCACCCTGCTCACGGTGCTGGCCTACTCACTGCT
GCCCATCGNNGGGGCCTTTCCTCATCGTCCTGCTGGCCTTTTGGATGTACCGGCATCGCA
AGCCCCCTTACGTCATGTGGACATTCATGAGGACCCTGGGCC
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Restriction Sites: NotI-NotI

ACCN: NM_001106

Insert Size: 2600 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).

RefSeq: NM_001106.2, NP_001097.1

RefSeq Size: 1584 bp

RefSeq ORF: 1539 bp

Locus ID: 93

UniProt ID: Q13705

Domains: Activin_recp, pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

Gene Summary: 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 (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. Type II receptors are considered to be constitutively active kinases. This gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor. [provided by RefSeq, Jul 2008]