

Product datasheet for RC206920L4

OriGene Technologies, Inc.

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Activin A Receptor Type IB (ACVR1B) (NM_004302) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Activin A Receptor Type IB (ACVR1B) (NM_004302) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Activin A Receptor Type IB

Synonyms: ACTRIB; ACVRLK4; ALK4; SKR2

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC206920).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_004302

ORF Size: 1515 bp



Activin A Receptor Type IB (ACVR1B) (NM_004302) Human Tagged Lenti ORF Clone - RC206920L4

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: <u>NM 004302.3</u>

RefSeq Size: 4540 bp RefSeq ORF: 1518 bp

Locus ID: 91

 UniProt ID:
 P36896

 Cytogenetics:
 12q13.13

Domains: Activin_recp, pkinase, TyrKc, S_TKc, GS

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: 56.81 kDa

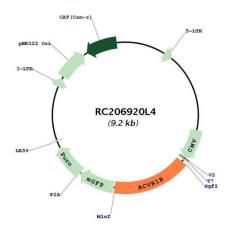
Gene Summary: This gene encodes an activin A type IB receptor. Activins are dimeric growth and

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.

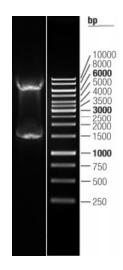
[provided by RefSeq, Jun 2010]



Product images:



Circular map for RC206920L4



Double digestion of RC206920L4 using Sgfl and Mlul $\,$