

Product datasheet for RC225725L2

OriGene Technologies, Inc.

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Activin A Receptor Type IC (ACVR1C) (NM_001111031) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Activin A Receptor Type IC (ACVR1C) (NM_001111031) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Activin A Receptor Type IC

Synonyms: ACVRLK7; ALK7

Mammalian Cell

Selection:

Vector: pLenti-C-mGFP (PS100071)

None

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

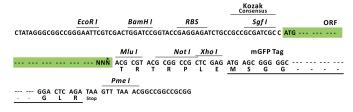
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC225725).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



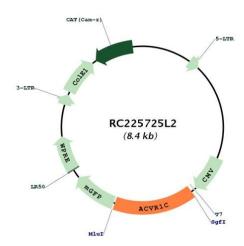


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001111031

ORF Size: 1329 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: <u>NM 001111031.1</u>, <u>NP 001104501.1</u>

RefSeq ORF: 1332 bp **Locus ID:** 130399



Activin A Receptor Type IC (ACVR1C) (NM_001111031) Human Tagged Lenti ORF Clone – RC225725L2

UniProt ID: Q8NER5

Cytogenetics: 2q24.1

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Endocytosis, MAPK signaling

pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway

MW: 49.5 kDa

Gene Summary: ACVR1C is a type I receptor for the TGFB (see MIM 190180) family of signaling molecules.

Upon ligand binding, type I receptors phosphorylate cytoplasmic SMAD transcription factors, which then translocate to the nucleus and interact directly with DNA or in complex with other transcription factors (Bondestam et al., 2001 [PubMed 12063393]).[supplied by OMIM, Mar

2008]