

## Product datasheet for **RC222334L4V**

### Activin A Receptor Type IB (ACVR1B) (NM\_020327) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Activin A Receptor Type IB (ACVR1B) (NM_020327) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | ACVR1B   |
| Synonyms:                 | ACTRIB; ACVRLK4; ALK4; SKR2  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_020327  |
| ORF Size:                 | 1428 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC222334).   |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| RefSeq:                   | <a href="#">NM_020327.2</a> , <a href="#">NP_064732.2</a>  |
| RefSeq Size:              | 1783 bp  |
| RefSeq ORF:               | 1362 bp  |
| Locus ID:                 | 91   |
| UniProt ID:               | <a href="#">P36896</a>   |
| Cytogenetics:             | 12q13.13   |
| Protein Families:         | Druggable Genome, Protein Kinase, Transmembrane  |



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**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]