

## Product datasheet for **SC336547**

### Activin Receptor Type IIA (ACVR2A) (NM\_001278579) Human Untagged Clone

#### Product data:

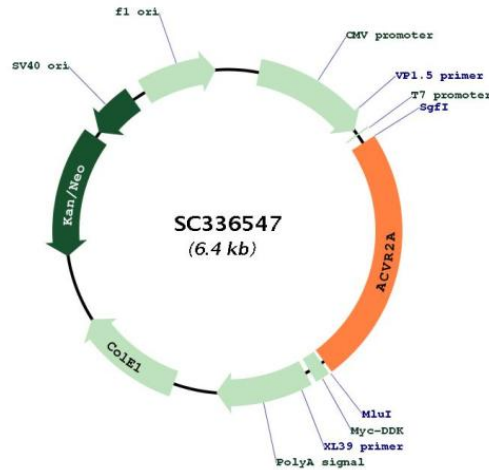
**Product Type:** Expression Plasmids  
**Product Name:** Activin Receptor Type IIA (ACVR2A) (NM\_001278579) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ACVR2A  
**Synonyms:** ACTRII; ACVR2  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC336547 representing NM\_001278579.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGGGAGCTGCTGCAAAGTTGGCGTTTGCCGCTTTCTTATCTCCTGTTCTTCAGGTGCTATACTTGGT
AGATCAGAAACTCAGGAGTGTCTTTTCTTAAATGCTAATTGGGAAAAAGACAGAACCAATCAAAGTGGT
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AGACTAACAAATATTATTACCACAGAGGACATTGTAACAGTGGTACAATGGTGACAAATGTTGACTTT
CCTCCAAAGAATCTAGTCTATGA
```

**Restriction Sites:** SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001278579

**Insert Size:** 1542 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).

**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\\_001278579.1](#)

**RefSeq Size:** 5374 bp

**RefSeq ORF:** 1542 bp

**Locus ID:** 92

**UniProt ID:** [P27037](#)

**Cytogenetics:** 2q22.3-q23.1

<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway
<b>MW:</b>	57.8 kDa
<b>Gene Summary:</b>	<p>This gene encodes a receptor that mediates the functions of activins, which are members of the transforming growth factor-beta (TGF-beta) superfamily involved in diverse biological processes. The encoded protein is a transmembrane serine-threonine kinase receptor which mediates signaling by forming heterodimeric complexes with various combinations of type I and type II receptors and ligands in a cell-specific manner. The encoded type II receptor is primarily involved in ligand-binding and includes an extracellular ligand-binding domain, a transmembrane domain and a cytoplasmic serine-threonine kinase domain. This gene may be associated with susceptibility to preeclampsia, a pregnancy-related disease which can result in maternal and fetal morbidity and mortality. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jun 2013]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same isoform (1).</p>