

## Product datasheet for **SC125520**

### Activin Receptor Type IIA (ACVR2A) (NM\_001616) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Activin Receptor Type IIA (ACVR2A) (NM_001616) Human Untagged Clone
Tag:	Tag Free
Symbol:	Activin Receptor Type IIA
Synonyms:	ACTRII; ACVR2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC125520 sequence for NM\_001616 edited (data generated by NextGen Sequencing)

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ATGGGAGCTGCTGCAAAGTTGGCGTTTGGCGTCTTTCTTATCTCCTGTTCTTCAGGTGCT
ATACTTGGTAGATCAGAACTCAGGAGTGTCTTTCTTTAATGCTAATTGGGAAAAAGAC
AGAACCAATCAAAGTGGTGTGAACCGTGTATGGTGACAAAGATAAACGGCGCATTGT
TTTGCTACCTGGAAGAATATTTCTGGTTCATTGAAATAGTGAACAAGTTGTTGGCTG
GATGATATCAAAGTGTATGACAGGACTGATTGTGTAGAAAAAAGACAGCCCTGAAGTA
TATTTTTGTTGCTGTGAGGGCAATATGTGTAATGAAAAGTTTTCTTATTTCCAGAGATG
GAAGTCACACAGCCCACTTCAAATCCAGTTACACCTAAGCCACCTATTACAACATCCTG
CTCTATTCCTTGGTGCCACTTATGTTAATTGCGGGGATTGTCATTTGTGCATTTTGGGTG
TACAGGCATCACAAGATGGCCTACCCTCCTGTACTTGTCCAACCTCAAGACCCAGGACCA
CCCCACCTTCTCCATTACTAGTTTGAACCACTGCAGTTATTAGAAGTGAAGCAAGG
GGAAGATTTGGTGTGTCTGGAAAGCCAGTTGCTTAACGAATATGTGGCTGTCAAATA
TTTCCAATACAGGACAAACAGTCATGGCAAAATGAATACGAAGTCTACAGTTGCCTGGA
ATGAAGCATGAGAACATATTACAGTTCATTGGTGCAGAAAAACGAGGCACCAGTGTGAT
GTGGATCTTTGGCTGATCACAGCATTTCATGAAAAGGGTCACTATCAGACTTTCTTAAG
GCTAATGTGGTCTCTTGAATGAACTGTGTCAATTGCAGAAACCATGGCTAGAGGATTG
GCATATTTACATGAGGATATACCTGGCCTAAAAGATGGCCACAAACCTGCCATATCTCAC
AGGGACATCAAAGTAAAAATGTGCTGTGAAAAACAACCTGACAGCTTGCAATTGCTGAC
TTTGGGTTGGCCTTAAAAATTTGAGGCTGGCAAGTCTGCAGGCGATACCATGGACAGGT
GGTACCCGGAGGTACATGGCTCCAGAGGTATTAGAGGGTGTATAAACTTCAAAGGGAT
GCATTTTTGAGGATAGATATGTATGCCATGGGATTAGTCTATGGGAAGTGGCTTCTCGC
TGTACTGCTGCAGATGGACCTGTAGATGAATACATGTTGCCATTTGAGGAGGAAATGGC
CAGCATCCATCTCTTGAAGACATGCAGGAAGTTGTTGTGCATAAAAAAAGAGGCCTGTT
TTAAGAGATTATTGGCAGAAACATGCTGGAATGGCAATGCTCTGTGAAACCATTGAAGAA
TGTGGGATCACGACGCAGAAGCCAGGTTATCAGCTGGATGTGTAGGTGAAAGAATTACC
CAGATGCAGAGACTAACAAATATTATTACCACAGAGGACATTGTAACAGTGGTCACAATG
GTGACAAATGTTGACTTTCCTCCAAAGAATCTAGTCTATGA
    
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Clone variation with respect to NM\_001616.3  
354 g=>a

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_001616 unedited
TTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGTTTTGTTCCGAGAGACG
GGAGAGGCGAGCGGAGCTGACAGTGATTTGACAGTGATTTAAACCCGCTTTTGTGTTG
TTGGCTTTTCGTTGTTTGGTTTTGTGTGTTGTGCGTGTGTGGCGTTTTTCCCCCGTG
GTGCATTTTATTTTTATCGTTGTGCTCTTTTTTTCTTTTTTTTTTTTTTAAACCCAGT
AGCGNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGCTGGGCTCCGAATATGTTTTAT
GACGGTTGATTTTACACCAGGAGTTTTGCTCCGAGGAAAACCCAGGAACTGGTTTTTT
AGCGAGAACTTCTCCGATTCCCGGCGCCTCGGAAAAATGGGAGCTGCTGCAAAGTTG
GCGTTTGGCGTCTTTTTATCTCCTGTTCTTCAGGGGCTATACTTGGTAAATCAAAAAC
CAGGAGGGGCTTTCTTTAATGCTAATTGGGAAAAAGACAGAACCATCAAAGTGTGTT
GAACCGTGTATGGTGACAAAAATAAACGGCGGCTTTGTTTTGCTACCTGGAAGAATATT
TCTGGTCCATTGAAATAGGGAACAAGGTTGTTTGGCTGGATGATATCAACTGCTATT
ACAGGACTGATTGTGTAACAAAAAAGACGCCCTGAAGTTATTTTTGTTGCTGGGAGGG
CATATTTGAATGAAAAGTTTTTATTTTCCAAATTGGAGTCCCCACCCCTTAATTCA
GTTACCTAACCCCTTACACAATCCTGTTTATTCTTGGGCCCTATGGTATTGGGGG
GGGATTGGCTTTTGGCCTTTTGGGGGGCCAGCTTCAAAAATGGCTACCTCCTGGCCTG
TTCCACTAAGAACAGAACCCCCCTTCAATTTTTGGG
    
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**Gene Summary:**

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (1).