

Product datasheet for **SC331390**

ACTG2 (NM_001199893) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ACTG2 (NM_001199893) Human Untagged Clone
Tag: Tag Free
Symbol: ACTG2
Synonyms: ACT; ACTA3; ACTE; ACTL3; ACTSG; VSCM; VSCM1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331390 representing NM_001199893.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTGTGAAGAGGAGACCACCGCTCGTGTGTGACAATGGCTCTGGCCTGTGCAAGGCAGGCTTCGCA
GGAGATGATGCCCCCGGGCTGTCTTCCCCTCCATTGTGGGCCGCCCTCGCCACCAGATCTGGCACCAC
TCCTTCTACAATGAGCTGCGTGTAGCACCTGAAGAGCACCCACCCTGCTCACAGAGGCTCCCCTAAAT
CCCAAGGCCAACAGGGAAAAGATGACCCAGATCATGTTTGAACCTTCAATGTCCTGCCATGTACGTC
GCCATTCAAGCTGTGCTCTCCCTCTATGCCTCTGGCCGACGACAGGCATCGTCTGGATTGAGGTGAT
GGCGTCACCCACAATGTCCCCTATGAAGGCTATGCCCTGCCCATGCCATCATGCGCCTGGACTTG
GCTGGCCGTGACCTCACGGACTACCTCATGAAGATCCTCACAGAGAGAGGCTATTCTTTGTGACCACA
GCTGAGAGAGAAAATTGTGCGAGACATCAAGGAGAAGCTGTGCTATGTGGCCCTGGATTTTGAAGAATGAG
ATGGCCACAGCAGCTTCCCTTCTCCCTCCCTGGAGAAGAGCTATGAGCTGCCAGATGGGCAGGTTATCACC
ATTGGCAATGAGCGCTTCCGCTGCCCTGAGACCCTCTCCAGCCTTCTTTATTGGCATGGAGTCCGCT
GGAATTCATGAGACAACCTACAATTCATCATGAAGTGTGACATTGACATCCGTAAGGACTTATATGCC
ACAATGTCCTCTCTGGGGCACCACCATGTACCCTGGCATTGCTGACAGGATGCAGAAGGAGATCACA
GCCCTGGCCCCCAGCACCATGAAGATCAAGATTATTGCTCCCCAGAGCGGAAGTACTCAGTCTGGATC
GGGGCTCTATCCTGGCCTCTCTCCACCTTCCAGCAGATGTGGATCAGCAAGCCTGAGTATGATGAG
GCAGGGCCCTCCATTGTCCACAGGAAGTGCTTCTAA
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Restriction Sites: Sgfl-Mlul
ACCN: NM_001199893
Insert Size: 1002 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:	<ol style="list-style-type: none">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_001199893.1
RefSeq Size:	1216 bp
RefSeq ORF:	1002 bp
Locus ID:	72
UniProt ID:	P63267
Cytogenetics:	2p13.1
Protein Pathways:	Vascular smooth muscle contraction
MW:	37.1 kDa
Gene Summary:	<p>Actins are highly conserved proteins that are involved in various types of cell motility and in the maintenance of the cytoskeleton. Three types of actins, alpha, beta and gamma, have been identified in vertebrates. Alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins co-exist in most cell types as components of the cytoskeleton and as mediators of internal cell motility. This gene encodes actin gamma 2; a smooth muscle actin found in enteric tissues. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Based on similarity to peptide cleavage of related actins, the mature protein of this gene is formed by removal of two N-terminal peptides.[provided by RefSeq, Dec 2010]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region, compared to variant 1, that results in a shorter isoform (2), compared to isoform 1.</p>