

Product datasheet for **SC319705**

ACTG2 (NM_001615) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ACTG2 (NM_001615) Human Untagged Clone
Tag: Tag Free
Symbol: ACTG2
Synonyms: ACT; ACTA3; ACTE; ACTL3; ACTSG; VSCM; VSCM1
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001615.3
GGGGACACCAGCCCTCAGTCACTGGGAGAAGAACCTCTCATACCCTCGGTGCTCCAGTCC
CCAGCTCACTCAGCCACATACACCATGTGTGAAGAGGAGACCACCGCCTCGTGTGTGAC
AATGGCTCTGGCCTGTGCAAGGCAGGCTTCGCAGGAGATGATGCCCCCGGGCTGTCTTC
CCCTCCATTGTGGGCCGCCCTCGCCACCAGGGTGTGATGGTGGGAATGGGCCAGAAAGAC
AGCTATGTGGGGATGAGGCTCAGAGCAAGCGAGGGATCCTAACTCTCAAATACCCATT
GAACACGGCATCATACCAACTGGGATGACATGGAGAAGATCTGGCACCCTCTTCTAC
AATGAGCTGCGTGTAGCACCTGAAGAGCACCCACCTGCTCACAGAGGCTCCCTAAAT
CCCAAGGCCAACAGGGAGAAGATGACCCAGATCATGTTTGAAACCTTCAATGTCCCTGCC
ATGTACGTGCCATTCAAGCTGTGCTCTCCCTCTATGCCTCTGGCCGCACGACAGGCATC
GTCCTGGATTGAGGTGATGGCGTCACCCACAATGTCCCATCTATGAAGGCTATGCCCTG
CCCATGCCATCATGCGCCTGGACTTGGCTGGCGTGACCTCACGACTACCTCATGAAG
ATCCTCACAGAGAGAGGCTATTCTTTGTGACCACAGCTGAGAGAGAAATTGTGCGAGAC
ATCAAGGAGAAGCTGTGCTATGTGGCCCTGGATTTTGAGAATGAGATGGCCACAGCAGCT
TCCTCTTCTCCCTGGAGAAGAGCTATGAGCTGCCAGATGGGCAGGTTATCACCATTGGC
AATGAGCGCTTCCGCTGCCCTGAGACCCTTCCAGCCTTCTTTATTGGCATGGAGTCC
GCTGGAATTCATGAGACAACCTACAATTCCATCATGAAGTGTGACATTGACATCCGTAAG
GACTTATATGCCAACAAATGTCTCTCTGGGGGCACCACCATGTACCCTGGCATTGCTGAC
AGGATGCAGAAGGAGATCACAGCCCTGGCCCCAGCACCATGAAGATCAAGATTATTGCT
CCCCAGAGCGGAAGTACTCAGTCTGGATCGGGGCTCTATCCTGGCCTCTCTCTCCACC
TTCCAGCAGATGTGGATCAGCAAGCCTGAGTATGATGAGGCAGGGCCCTCCATTGTCAC
AGGAAGTGCTTCTAAAGTCAGAACAGGTTCTCCAAGGATCCCCTCGAGACTACTGTGTA
CCAGTCATGAAACATTAACCTACAAGCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

Restriction Sites: Please inquire



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ACCN:	NM_001615
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001615.3 , NP_001606.1
RefSeq Size:	1345 bp
RefSeq ORF:	1131 bp
Locus ID:	72
UniProt ID:	P63267
Cytogenetics:	2p13.1
Domains:	ACTIN
Protein Pathways:	Vascular smooth muscle contraction
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 (1) represents the longer transcript and encodes the longer isoform (1).</p>