

Product datasheet for **SC332676**

ACTN3 (NM_001258371) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACTN3 (NM_001258371) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACTN3
Synonyms:	ACTN3D
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC332676 representing NM_001258371.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGGATAGGGCTCTGTGTCCCACCAGCGAGGTGCTGGAAGAGGCTCACGAGGAGCTCCAGAGGGCAG
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CTTTGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001258371
Insert Size: 2835 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_001258371.1
RefSeq Size:	3086 bp
RefSeq ORF:	2835 bp
Locus ID:	89
UniProt ID:	Q08043
Cytogenetics:	11q13.2
Protein Pathways:	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Systemic lupus erythematosus, Tight junction
MW:	107.7 kDa
Gene Summary:	<p>This gene encodes a member of the alpha-actin binding protein gene family. The encoded protein is primarily expressed in skeletal muscle and functions as a structural component of sarcomeric Z line. This protein is involved in crosslinking actin containing thin filaments. An allelic polymorphism in this gene results in both coding and non-coding variants; the reference genome represents the coding allele. The non-functional allele of this gene is associated with elite athlete status. [provided by RefSeq, Feb 2014]</p> <p>Transcript Variant: This variant (2) uses an alternate exon in the 5' UTR and coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) is longer and has a distinct N-terminus, compared to isoform 1.</p>