

## Product datasheet for **SC329600**

### gamma Actin (ACTG1) (NM\_001199954) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** gamma Actin (ACTG1) (NM\_001199954) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ACTG1  
**Synonyms:** ACT; ACTG; DFNA20; DFNA26; HEL-176  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC329600 representing NM\_001199954.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

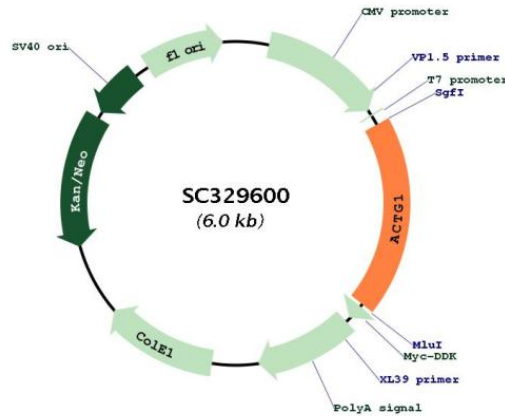
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CGGTTCCGGTGTCCGGAGGCGTGTCCAGCCTTCCTTCTGGGTATGGAATCTTGCGGCATCCACGAG
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CTGGCCTCACTGTCCACCTTCCAGCAGATGTGGATTAGCAAGCAGGAGTACGACGAGTCGGGCCCTCC
ATCGTCCACCGCAAATGCTTCTAA
  
```

**Restriction Sites:** Sgfl-MluI



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Plasmid Map:



ACCN: NM\_001199954

Insert Size: 1128 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\\_001199954.1](#)

RefSeq Size: 2123 bp

RefSeq ORF:	1128 bp
Locus ID:	71
UniProt ID:	<a href="#">P63261</a>
Cytogenetics:	17q25.3
Protein Pathways:	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Tight junction, Vibrio cholerae infection, Viral myocarditis
MW:	41.8 kDa
Gene Summary:	<p>Actins are highly conserved proteins that are involved in various types of cell motility and in maintenance of the cytoskeleton. Three main groups of actin isoforms have been identified in vertebrate animals: alpha, beta, and gamma. The 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. Actin gamma 1, encoded by this gene, is a cytoplasmic actin found in all cell types. Mutations in this gene are associated with DFNA20/26, a subtype of autosomal dominant non-syndromic sensorineural progressive hearing loss and also with Baraitser-Winter syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2017]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>