

## Product datasheet for **RC201730L2V**

### **gamma Actin (ACTG1) (NM\_001614) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

<b>Product Type:</b>	Lentiviral Particles
<b>Product Name:</b>	gamma Actin (ACTG1) (NM_001614) Human Tagged ORF Clone Lentiviral Particle
<b>Symbol:</b>	gamma Actin
<b>Synonyms:</b>	ACT; ACTG; DFNA20; DFNA26; HEL-176
<b>Mammalian Cell Selection:</b>	None
<b>Vector:</b>	pLenti-C-mGFP (PS100071)
<b>Tag:</b>	mGFP
<b>ACCN:</b>	NM_001614
<b>ORF Size:</b>	1125 bp
<b>ORF Nucleotide Sequence:</b>	The ORF insert of this clone is exactly the same as(RC201730).
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>RefSeq:</b>	<a href="#">NM_001614.2</a>
<b>RefSeq Size:</b>	2004 bp
<b>RefSeq ORF:</b>	1128 bp
<b>Locus ID:</b>	71
<b>UniProt ID:</b>	<a href="#">P63261</a>
<b>Cytogenetics:</b>	17q25.3
<b>Domains:</b>	ACTIN



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<b>Protein Pathways:</b>	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
<b>MW:</b>	41.8 kDa
<b>Gene Summary:</b>	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]