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# Product datasheet for RC203655L4V

## ACTC1 (NM_005159) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | ACTC1 (NM_005159) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | ACTC1 |
| **Synonyms:** | ACTC; ASD5; CMD1R; CMH11; LVNC4 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **Tag:** | mGFP |
| **ACCN:** | NM_005159 |
| **ORF Size:** | 1131 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC203655). |
| **OTI Disclaimer:** | 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. More info |
| **OTI Annotation:** | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| **RefSeq:** | NM_005159.4 |
| **RefSeq Size:** | 3693 bp |
| **RefSeq ORF:** | 1134 bp |
| **Locus ID:** | 70 |
| **UniProt ID:** | P68032 |
| **Cytogenetics:** | 15q14 |
| **Domains:** | ACTIN |
| **Protein Pathways:** | Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM) |

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**MW:** 42 kDa

**Gene Summary:** Actins are highly conserved proteins that are involved in various types of cell motility. Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to four others. The protein encoded by this gene belongs to the actin family which is comprised of three main groups of actin isoforms, alpha, beta, and gamma. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. Defects in this gene have been associated with idiopathic dilated cardiomyopathy (IDC) and familial hypertrophic cardiomyopathy (FHC). [provided by RefSeq, Jul 2008]