

Product datasheet for RC208531L3V

OriGene Technologies, Inc.

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ACTN2 (NM_001103) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: ACTN2 (NM 001103) Human Tagged ORF Clone Lentiviral Particle

Symbol: ACTN2

Synonyms: CMD1AA; CMH23; MPD6; MYOCOZ

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

 Tag:
 Myc-DDK

 ACCN:
 NM_001103

ORF Size: 2682 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC208531).

OTI Disclaimer:

Sequence:

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. <u>More info</u>

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: <u>NM 001103.1</u>

RefSeq Size: 4181 bp RefSeq ORF: 2685 bp

Locus ID: 88

UniProt ID: <u>P35609</u>

Cytogenetics: 1q43

Domains: CH, spectrin, EFh





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Protein Pathways: Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Focal adhesion,

Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Systemic lupus

erythematosus, Tight junction

MW: 103.7 kDa

Gene Summary: Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of

cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a muscle-specific, alpha actinin isoform that is expressed in both skeletal and cardiac muscles. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May

2013]