

Product datasheet for RC213332L4V

OriGene Technologies, Inc.

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Hamartin (TSC1) (NM 000368) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: Hamartin (TSC1) (NM_000368) Human Tagged ORF Clone Lentiviral Particle

Symbol: Hamartin LAM: TSC Synonyms: **Mammalian Cell**

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

mGFP Tag:

NM 000368 ACCN: **ORF Size:** 3504 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC213332).

Sequence:

The molecular sequence of this clone aligns with the gene accession number as a point of OTI Disclaimer: 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

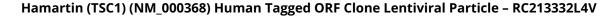
varies depending on the nature of the gene.

RefSeq: NM 000368.3

RefSeq Size: 8617 bp RefSeq ORF: 3495 bp Locus ID: 7248 **UniProt ID:** Q92574 Cytogenetics: 9q34.13 Domains: Hamartin

Protein Pathways: Insulin signaling pathway, mTOR signaling pathway





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MW: 130.3 kDa

Gene Summary:

This gene is a tumor suppressor gene that encodes the growth inhibitory protein hamartin. The encoded protein interacts with and stabilizes the GTPase activating protein tuberin. This hamartin-tuberin complex negatively regulates mammalian target of rapamycin complex 1 (mTORC1) signalling which is a major regulator of anabolic cell growth. This protein also functions as a co-chaperone for Hsp90 that inhibits its ATPase activity. This protein functions as a facilitator of Hsp90-mediated folding of kinase and non-kinase clients, including Tsc2 and thereby preventing their ubiquitination and proteasomal degradation. Mutations in this gene have been associated with tuberous sclerosis. [provided by RefSeq, Apr 2018]