

## Product datasheet for **RC208935L3V**

### TC10 (RHOQ) (NM\_012249) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	TC10 (RHOQ) (NM_012249) Human Tagged ORF Clone Lentiviral Particle
Symbol:	TC10
Synonyms:	ARHQ; HEL-S-42; RASL7A; TC10; TC10A
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_012249
ORF Size:	615 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC208935).
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. <a href="#">More info</a>
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:	<a href="#">NM_012249.2</a>
RefSeq Size:	4542 bp
RefSeq ORF:	618 bp
Locus ID:	23433
UniProt ID:	<a href="#">P17081</a>
Cytogenetics:	2p21
Domains:	ras, RAS, RHO, RAB
Protein Pathways:	Insulin signaling pathway



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**MW:** 22.7 kDa

**Gene Summary:** This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. The encoded protein is an important signalling protein for sarcomere assembly and has been shown to play a significant role in the exocytosis of the solute carrier family 2, facilitated glucose transporter member 4 and other proteins, possibly acting as the signal that turns on the membrane fusion machinery. Three related pseudogene have been identified on chromosomes 2 and 14. [provided by RefSeq, Aug 2011]