

## Product datasheet for **RC203873L4V**

### Rab5 (RAB5A) (NM\_004162) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Rab5 (RAB5A) (NM_004162) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Rab5
Synonyms:	RAB5
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_004162
ORF Size:	645 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203873).
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_004162.3</a> , <a href="#">NP_004153.2</a>
RefSeq Size:	2548 bp
RefSeq ORF:	648 bp
Locus ID:	5868
UniProt ID:	<a href="#">P20339</a>
Cytogenetics:	3p24.3
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome



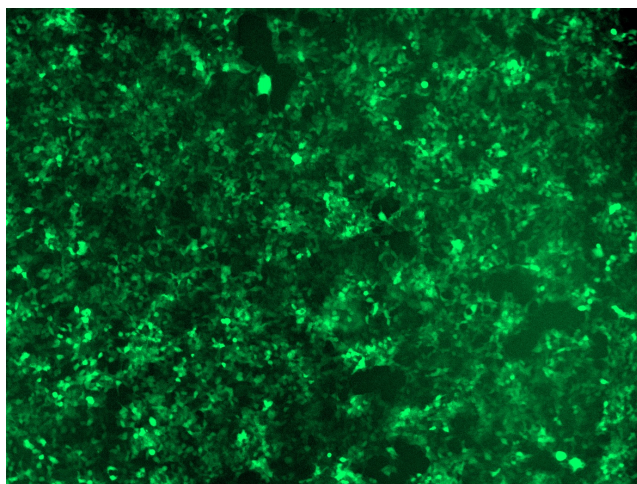
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**Protein Pathways:** Amyotrophic lateral sclerosis (ALS), Endocytosis

**MW:** 23.7 kDa

**Gene Summary:** The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB5A is required for the fusion of plasma membranes and early endosomes (PubMed:10818110, PubMed:14617813, PubMed:16410077, PubMed:15378032). Contributes to the regulation of filopodia extension (PubMed:14978216). Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan (PubMed:22660413). Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



[RC203873L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC203873L4V particle to overexpress human RAB5A-mGFP fusion protein.