

## Product datasheet for **RC201010L3V**

### Mucolipin 1 (MCOLN1) (NM\_020533) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Mucolipin 1 (MCOLN1) (NM_020533) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Mucolipin 1
Synonyms:	MG-2; ML1; ML4; MLIV; MST080; MSTP080; TRP-ML1; TRPM-L1; TRPML1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_020533
ORF Size:	1740 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201010).
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_020533.1</a>
RefSeq Size:	2118 bp
RefSeq ORF:	1743 bp
Locus ID:	57192
UniProt ID:	<a href="#">Q9GZU1</a>
Cytogenetics:	19p13.2
Domains:	ion_trans
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane



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**MW:** 65 kDa

**Gene Summary:** This gene encodes a member of the transient receptor potential (TRP) cation channel gene family. The transmembrane protein localizes to intracellular vesicular membranes including lysosomes, and functions in the late endocytic pathway and in the regulation of lysosomal exocytosis. The channel is permeable to  $\text{Ca}^{2+}$ ,  $\text{Fe}^{2+}$ ,  $\text{Na}^{+}$ ,  $\text{K}^{+}$ , and  $\text{H}^{+}$ , and is modulated by changes in  $\text{Ca}^{2+}$  concentration. Mutations in this gene result in mucopolipidosis type IV. [provided by RefSeq, Oct 2009]