

Product datasheet for **RC211195L4V**

MCOLN2 (NM_153259) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	MCOLN2 (NM_153259) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MCOLN2
Synonyms:	TRP-ML2; TRPML2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_153259
ORF Size:	1698 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211195).
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. 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_153259.2
RefSeq Size:	3060 bp
RefSeq ORF:	1701 bp
Locus ID:	255231
UniProt ID:	Q8IZK6
Cytogenetics:	1p22.3
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
MW:	65.9 kDa



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Gene Summary:

Mucolipins constitute a family of cation channel proteins with homology to the transient receptor potential superfamily. In mammals, the mucolipin family includes 3 members, MCOLN1 (MIM 605248), MCOLN2, and MCOLN3 (MIM 607400), that exhibit a common 6-membrane-spanning topology. Homologs of mammalian mucolipins exist in *Drosophila* and *C. elegans*. Mutations in the human MCOLN1 gene cause mucolipodosis IV (MIM 262650) (Karacsonyi et al., 2007 [PubMed 17662026]).[supplied by OMIM, Sep 2009]