

## Product datasheet for RC224697L1

#### OriGene Technologies, Inc.

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### Mucolipin 3 (MCOLN3) (NM\_018298) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Mucolipin 3 (MCOLN3) (NM\_018298) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Mucolipin 3

Synonyms: TRP-ML3; TRPML3

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

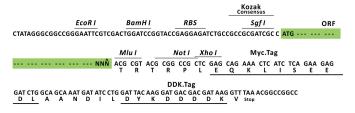
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC224697).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_018298

ORF Size: 1659 bp





#### Mucolipin 3 (MCOLN3) (NM\_018298) Human Tagged Lenti ORF Clone - RC224697L1

**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.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 018298.9</u>, <u>NP 060768.8</u>

 RefSeq Size:
 2813 bp

 RefSeq ORF:
 1662 bp

 Locus ID:
 55283

 UniProt ID:
 Q8TDD5

 Cytogenetics:
 1p22.3

**Protein Families:** Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

**MW:** 64.1 kDa

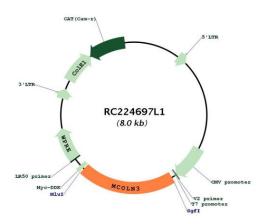
**Gene Summary:** This gene encodes one of members of the mucolipin cation channel proteins. Mutation

studies of the highly similar protein in mice have shown that the protein is found in cochlea hair cells, and mutant mice show early-onset hearing loss and balance problems. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by

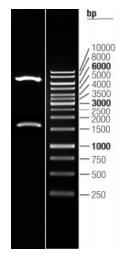
RefSeq, Nov 2011]



# **Product images:**



Circular map for RC224697L1



Double digestion of RC224697L1 using Sgfl and Mlul  $\,$