

## **Product datasheet for RC202218L3**

## OriGene Technologies, Inc.

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## Mitofusin 2 (MFN2) (NM\_014874) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Mitofusin 2 (MFN2) (NM 014874) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Mitofusin 2

Synonyms: CMT2A; CMT2A2; CMT2A2A; CMT2A2B; CPRP1; HMSN6A; HSG; MARF

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone i

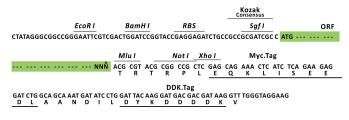
Sequence:

The ORF insert of this clone is exactly the same as(RC202218).

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





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

**ACCN:** NM\_014874

ORF Size: 2271 bp





## Mitofusin 2 (MFN2) (NM\_014874) Human Tagged Lenti ORF Clone - RC202218L3

**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 014874.2</u>

RefSeq Size:4685 bpRefSeq ORF:2274 bpLocus ID:9927

 UniProt ID:
 O95140

 Cytogenetics:
 1p36.22

Domains: fzo\_mitofusin

Protein Families: Transmembrane

**MW:** 86.4 kDa

**Gene Summary:** This gene encodes a mitochondrial membrane protein that participates in mitochondrial

fusion and contributes to the maintenance and operation of the mitochondrial network. This protein is involved in the regulation of vascular smooth muscle cell proliferation, and it may play a role in the pathophysiology of obesity. Mutations in this gene cause Charcot-Marie-Tooth disease type 2A2, and hereditary motor and sensory neuropathy VI, which are both disorders of the peripheral nervous system. Defects in this gene have also been associated with early-onset stroke. Two transcript variants encoding the same protein have been

identified. [provided by RefSeq, Jul 2008]