

## Product datasheet for **SC217210**

### Mitofusin 2 (MFN2) (NM\_014874) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Mitofusin 2 (MFN2) (NM_014874) Human 3' UTR Clone
Symbol:	Mitofusin 2
Synonyms:	CMT2A; CMT2A2; CMT2A2A; CMT2A2B; CPRP1; HMSN6A; HSG; MARF
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_014874
Insert Size:	1973 bp



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**Insert Sequence:** >SC217210 3'UTR clone of NM\_014874  
 The sequence shown below is from the reference sequence of NM\_014874. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
ACACACCAAGTACCTGCAGCCAGCAGATAGTGGGCACCTGAGGCGGAGTCTGCGTGGAGAGGGGCGGTG
CTGCCAGCCCTAAGTGCCATGTGGGCTCCCCAGGGGCACGTGTGGCTCTGCCCTGGCCACTGCCA
AGAGAATGAAGCACCCAGTCTCGTACCATTTTGTAGCCCTCCAGCACTACTTATTTTCCCCACCTTTGC
CTGCTGTTGCTGGAAGAGCTGGCTCATACCCCAAAGGACACTTTCAGCGACAGCTATGGACAGCATGG
TACCAAGGAGTTAAGTTGAGGCTTTTCCAGCTTCTCTGGTTCATTTGATTGCTTGATAAGGCCTCAG
GATCTCAGCATTGCACAATGCCTCATGGAAGCCTTTGAGGGTATCACACAGACACCCCCACCTTCTCTCC
AGCCTGTGCGCACCTGCCCTCCTTGCAGCCAGCACACCTGCAGGTGTAAGGGACGATTGGAGTTTCTT
CCCAGAGAGTCTGTCCCAGAAGGACTGTGGCTTGTGTGTCCATCTCGCCTGTTGGCTCAGTGCTTCA
TCCCATTTGCAGAGCCTCAGACAGTCTTGGTGGTGGAGGCTCAGTTACCCCTGGGCTTAGGCTGAGGCG
GGCCCTGTGCTGGGGGTGGTAGAAAGGATGCTGCTGAGGCAGCTGGAGGAGTGGGAGTAGCTCAGAGGG
GAGGGCTGTTGGATGTATGGGAGCTGGCAGAGCAGGTGGCAGTCACTGGGACAAGGAGGGACTTGCCCT
CTCTTCTCATTATTGTGTCCTTTGCTTTAGTGTGAGTCTGGACTTGTGCAGGCCCTGTTTGTGTAGAT
CTGTTTTGGAAGATGGCATGGTCTAGGTGGTTGAAGGATGTAGTAGAAGGATGGATGGTGGAAAGTGGG
GACGTTGGTGGCTGGCTGAGGTGCATGGGCCCCACACAGGACAGCTGGAGAATGGGCCGTCCACTTGGC
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CCTTTAAGAGACATGTTTCCACCCACCCCAACCTTGTCCCAAGTGCCCTGGACTAAATTTCTGTGTC
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CAGAACCTTCGACTGACCCCTTGTCTTTATGCTGATGTTGAGTTTTGGATTGTTACTGGTTGAAGTG
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CACAAGTTGGATCGCTTCTAGAAATAAGCAACACCTCTCCAAAAAGCAGCCACAAGGCAGGGGCC
AGCAGCCAGCCATCACTCATCTTTGAGGAAATGAGTTGGTAGCCTCTGTGCACTGTTTGGTGGCCACA
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GAAGTGATGGACTCTGCCAGGTGGACATGCTGTGGGTGGATGTTCCCGGCGTGTCCGGGCTGAATGG
ACAGGGGCCACTTCACAGCATGTCAGGGAAAATCACTGTACACAATTCATGGATTTTGTGCTCTTT
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ATTTTGAGCTTCTCAATACGTAATAAATTTATACCACTGAGGGAGAGACCCCTTCTGAAAAGAGT
ATGGCCAAAAGCACTTTAATGCTGCTGACATTGTTGTTTTATGTTTCATTTGCTGGAGCGCAAGACGTG
CTGACACAGTGAGTTTTCTGTATGATTTAAGGTGATGATTTTGCTTGAGTTACTCCTGTATCATTGC
TCATAATATTGGAACTAAAATAAACCTAGTTGGAAATCC
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_014874.4](#)

**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]

**Locus ID:**

9927

**MW:**

73.3