

Product datasheet for **SC120111**

Mitofusin 1 (MFN1) (NM_033540) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mitofusin 1 (MFN1) (NM_033540) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mitofusin 1
Synonyms:	hfzo1; hfzo2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC120111 sequence for NM_033540 edited (data generated by NextGen Sequencing)

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ATGGCAGAACCTGTTTCTCCACTGAAGCACTTTGTGCTGGCTAAGAAGGCGATTACTGCA
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CAACTGGCCCATGCCCTTACATGGACAAAAGATTTGAAAGCTGGCTGTCTTGACGTGTG
TTTTGGCCAAAAGCAAAATGTGCCCTCTTGAGAGATGACCTGGTGTAGTAGACAGTCCA
GGCACAGATGTCACACTACAGAGCTGGATAGCTGGATTGATAAGTTTTGCCTAGATGCTGAT
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GCCTTTAAACAGCAGTTTGTAACTATGCAACTGAAAACTGAGGATGATTGTTAGCTCC
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GAAATAGATCAGTTGGAGAAAAACAAAACAATTCAAAGCTCTTAAGAAATAAAGCTGTT
CAACTTGAAAATGAGCTGGAGAATTTTACTAAGCAGTTTCTACCTTCAAGCAATGAAGAA
TCCTAA
    
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Clone variation with respect to NM_033540.2

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_033540 unedited</p> <pre>TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGGGAAGATGAGGCAG TTTGGCATCTGTGGCCGAGTTGCTGTTGCCGGGTGATAGTTGGAGCGGAGACTTAGCATA ATGGCAGAACCTGTTTCTCCACTGAAGCACTTTGTGCTGGCTAAGAAGGCGATTACTGCA ATCTTTGACCAGTTACTGGAGTTTGTACTGAAGGATCACATTTTGTGAAGCAACATAT AAGAATCCGGAACCTTGATCGAATAGCCACTGAAGATGATCTGGTAGAAATGCAAGGATAT AAAGACAAGCTTCCATCATTGGTGAGGTGCTATCTCGGAGACACATGAAGGTGGCATT TTTGGCAGGACAAGCAGTGGGAAGAGCTCTGTTATCAATGCAATGTTGTGGGATAAAGTT CTCCCTAGTGGGATTGGCCATATAACCAATTGCTTCTAAGTGTTGAAGGAACTGATGGA GATAAAGCCTATCTTATGACAGAAGGATCAGATGAAAAAAGAGTGTGAAGACAGTTAAT CAACTGGCCCATGCCCTTACATGGACAAAGATTTGAAAGCTGGCTGTCTTGTACGTGTG TTTTGGCCAAAAGCAAAATGTGCCCTCTTGAGAGATGACCTGNTGTTAGTAGACAGTCCA GGCACAGATGTCACAGAGCTGGATAGCTGGATTGATAAGTTTGCCTAGATGCTGATG TCTTTGTTTTGGTCGAAACTCTGAATCAACACTAATGAATACGGAAAAACACTTTTTTC ACAAGGTGAATGAGCGGCTCTCCAAGCCTAAATTTTCTTCTCAATAATCGTGGGATGCC TCTGCATCAGAGCCAGAATATATGGAGAGCTACGCACACGCACATGGAAAAGCCTGCAT TCTTGGTGAGAGCTCAAATTGTAATGCTTTAAAGCCAAAATCTTCTTCTGGTTTACAAAG AGATCTAAGT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_033540 unedited</p> <pre>GCCGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTTGTATTTGCATATTTCTATTTAAA GTTCTGGATGCTGGTAAGTCCAAGAGCATGGCACTGTCATCTGGCGAGGCCTTTCTTGCT GTGTTGTAAAATCATGGCAGAAGGCAAAGGGGAAGCAGGCGTCTTACATGGCTGGAGCT GAGCGTGGTGGCAGGCACCTGTAAATCCAGCTACTCAAGAGGCTGAGGCAGGAGAATTGC TTGAACCTGGGAAGCGGAGGTTGCAGTGAGCCGAGATTGCGCCACCGCACTCCAGCCTGG GTGACAGAGCAAGACTCCGTAGAAGAAATGAATGAATGGAGCTCCCAGAGACTGTCCCTTA GAGTCTGCATTCATTTGCTCCCTCATTAAATGAAGAAAATTGGTGGGTGCATGTGCTGT GCTAAGACTGTGGCTCCTAAGTAGAGTCTGAAGTCTGGTCTATGTGGCTTGGTATCAGTT CAAAGCAATCGTTCCATCAGAAAATTTTCCAAATGGATAAACCAACTGTGGTACTT CCATACCATGGAATGCTATGGCACTATGGATTACAGGGTAGCTCACTGAGTACAGCATT AGATTCATCCAATGTAAGACCAAGAGCAGAGCTTCTGAACTTGATCATAATGAAGCAA AACACCAAGTTTCTGCTCCTCCTATCATGGTCACCAAAGCCATTCTTATTGTTAAGATT CTTCTTTGCTTGGAAGTACAAACTGCTTATTAATTTCTCCCACTTTTTTCAAGTTGAC AGCTTTAATTTCTAAAATTTGAATGTTTTGGATTTTCCCAACGAACATTTCTTTGGTAT CTAACATTTTTTTTCACTGGTTTGGATAAACACTTTGTGGCCAGCAACAAAAGGGATCC TTTTGGGTTACTTGGGACGGATTTGCCCCGGACCAACAATTTCTATTTTTTCATGCTAG TTCAAACGCGTG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_033540
Insert Size:	3030 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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: [NM_033540.2](#), [NP_284941.2](#)

RefSeq Size: 3527 bp

RefSeq ORF: 2226 bp

Locus ID: 55669

UniProt ID: [Q8IWA4](#)

Cytogenetics: 3q26.33

Domains: fzo_mitofusin

Gene Summary: The protein encoded by this gene is a mediator of mitochondrial fusion. This protein and mitofusin 2 are homologs of the Drosophila protein fuzzy onion (Fzo). They are mitochondrial membrane proteins that interact with each other to facilitate mitochondrial targeting. [provided by RefSeq, Jul 2008]