

Product datasheet for **RN209047**

Mfn1 (NM_138976) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mfn1 (NM_138976) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mfn1
Synonyms:	Fzo1b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN209047 representing NM_138976
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGAAACGGTATCTCCACTGAAGCACTTCGTGCTGGCAAAGAAGGCCATCACTGCGATCTTCGGCC
 AGTTACTGGAGTTTGTTACTGAGGGCTCACATTTTGTGAAGCAACATACAGGAACCCGGAACCTTGATCG
 GATAGCAACCGAGGATGATCTGGTGAGATACAGGGCTACAGAAACAAGCTCGCTGTCATTGGGGAGGTG
 CTGTCTCGGAGGCATATGAAAGTGGCATTTCCTGGCAGGACAAGTAGTGGCAAGAGCTCTGTCATCAACG
 CAATGCTGTGGGATAAAGTCTCCCCAGCGGGATTGGTACACAACCAACTGCTTCCTGAGTGTGGAGGG
 AACTGATGGAGATAAAGCCTACCTTATGACCGAAGGGTCAGATGAGAAGAAAAGCGTGAAGACTGTTAAT
 CAGCTGGCCCATGCCCTCCATATGGATAAAGACTTGAAGCTGGTGTCTTGTGCACGATTTTGGCCCA
 AAGCAAAATGTGCCCTCTTGAGAGATGACCTGGTTTTAGTAGACAGCCAGGTACAGATGCACCACAGA
 GCTGGACATCTGGATTGATAAGTTCTGCCTTGATGCTGATGTTTTGTTTTGGTGGCAAACCTCGGAATCA
 ACGCTGATGAACCGGAGAAACATTTTTCCATTAAGGTGAATGAGCGGCTCTCCAAGCCAAACATTTTTTA
 TCCTGAATAATCGTTGGGATGCTTCTGCTCAGAGCCAGAATATATGGAGGATGTGCGCAGACAGACAT
 GGAAAGATGTCTTCACTTCTTGGTAGAAGAGCTCAAGGTTGTGAGTCCTTTAGAAGCTCGGAATCGGATC
 TTTTTGTTTTAGCCAAGGAAGTTCTCACTCCAGAATGAATAAAGCCAGGGGATGCCAGAAGGTGGAG
 GGGCACTTGACAGAAGGATTTTCAGGCAAGATTACAGGAGTTTCAAATTTTGAACAAACTTTTGGAGAGTG
 TATCTCGCAGTCAGCAGTGAAAACAAAGTTTGAACAGCACACTATCAGAGCTAACAGATACTAGACACT
 GTGAAAAACATACTGGACTCAGTAAACGTGGCAGCAGCAGAGAAGAGGGTTTATCAATGGAAGAGAGGG
 AAGACCAAAATCGACAGACTGGACTTTTTCGAAACCAGATGAACCTTTTAAACAATGGATGTTAAGAAGAA
 GATCAAGGAGGTCACGGAGGAGGTGGCAAACAAGGTTTTCTGTGCAATGACAGATGAGATTTGTCCCTG
 TCTGTTTTGGTTGATGAGTTTTGTTCTGAGTTTATCCTACCCCAAGTGTGCTGAAAGTGTATAAGAGTG
 AATTAATAAGCACATAGAAGATGGCATGGGAAGAAATTTGGCTGATCGGTGCACCAAGTGAAGTCAATGC
 CTCATTCTTCAATCTCAGCAAGAAATCATTGAAAATTTGAAGCCACTACTTCCAGCTGGTATACAGAAT
 AAACCTCATACTAATCCCTTGCAAAAAGTTTGATCTCAGCTATGATCTCAATTGCCACAAGCTGTGTT
 CGGATTTTCAAGAAGACATTGTGTTTCGGTTTTCCCTGGGCTGGTCTTCCCTGTACATCGATTCTGGG
 TTCTACGAATGCACAGAGGGTGTGCTTGGGCTGTCAGAGCCTATCTTTCAGTCCCTAGATCTTTAGCT
 TCAACTCTACTGCTCCTTCTAACCCAGCAGCACCAGATAATGCAGCCAGGAAGAGCTCATGATCACAC
 TGATCACAGGATTGGCATCCCTCAGCTCTAGAACCCTCCATGGGCATCATAGTTGTTGGGGCGGTGATTTG
 GAAAACAGTGGGCTGGAACTCATCTGTGCACCTTAAGTATGTATGGAGCTTTGTACCTTTATGAAAGA
 CTGACTTGGACTACTCGTGCGAAAGAGAGAGCGTTTAAAGCAGCAGTTTGTAAACTATGCAACTGAAAAAC
 TGCAGATGATTGTGAAGTTCACAAGTGCAAACTGCAGCCACCAAGTCCAGCAAGAAATGGCCACCACTTT
 TGCTCGACTGTGCCAACAAAGTTGATGTTACTCAGAAACATCTGGAAGAAGAAATTTGCTAGATTATCCAAA
 GAGATTGACCAACTGGAGAAAAACAAAACAATTCAAAGCTCTTAAGAAATAAAGCTGTTCAACTTGAAC
 GTGAGCTGGAAAAATTTTCGAAGCAGTTTCTCCACCCGAGCAGTGGAGAAATCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_138976
Insert Size: 2226 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:	<ol style="list-style-type: none">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_138976.1</u> , <u>NP_620432.1</u>
RefSeq Size:	2226 bp
RefSeq ORF:	2226 bp
Locus ID:	192647
UniProt ID:	<u>Q8R4Z9</u>
Cytogenetics:	2q24
Gene Summary:	mouse homolog is involved in regulation of mitochondrial fusion and is essential for embryonic development [RGD, Feb 2006]