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Product datasheet for MC204514

Mfn1 (NM_024200) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mfn1 (NM_024200) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mfn1
Synonyms:	2310002F04Rik; 6330416C07Rik; D3Ertd265e; HR2; mKIAA4032
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC056641
GCGACCCACGCGTCCGGTGGGGAGCAGGGACGGAGTGAGTGTCCGCTGGCGGGTGGCGACGTCCGGGGTG
ACCTTCGAGCTCCGGACCGGCGCAGCGCGAGCGCCCTGACGGGCCGGGGCGGCGGGCCGGGCAAGGGCGA
CGGGCGGCCAGCCTGAGGGAAGGCCCTGTCCAGGTGCATAATGGCAGAAACGGTATCTCCACTGAAGCAC
TTCGTGCTGGCAAAGAAAGCCATCACTGCAATCTTCGGCCAGTTACTGGAGTTTGTTACTGAGGGCTCAC
ATTTTGTTGAAGCAACATACAGAAATCCAGAACTTGATCGAATAGCATCCGAGGATGATCTGGTGGAAAT
ACAGGGCTACAGAAACAAGCTTGCTGTCATTGGGGAGGTGCTGTCTCGGAGACATATGAAGGTGGCATTT
TTTGGCAGGACAAGTAGTGGCAAGAGCTCTGTCATCAATGCAATGCTGTGGGATAAAGTCCTCCCCAGCG
GGATTGGTCACACAACCAACTGCTTCCTGAGTGTCGAGGGGACCGATGGAGATAAAGCCTACCTTATGAC
CGAAGGGTCAGATGAAAAGAAAAGTGTGAAGACTGTTAATCAGCTGGCCCATGCCCTCCATATGGATAAA
GACTTGAAAGCTGGCTGTCTTGTGCATGTATTTTGGCCCAAAGCAAAATGTGCCCTCTTGAGAGATGACC
TGGTTTTAGTAGACAGCCCAGGTACAGATGTCACCACAGAGCTGGATATCTGGATTGATAAGTTTTGCCT
TGATGCTGATGTCTTTGTTTTGGTTGCAAACTCGGAATCAACACTGATGAACACGGAGAAACATTTTTTC
CATAAGGTGAATGAGCGGCTCTCCAAGCCCAACATCTTCATTCTGAATAACCGTTGGGATGCTTCTGCTT
CGGAGCCGGAGTACATGGAGGATGTGCGCAGACAGCACATGGAGAGATGTCTTCACTTCTTGGTAGAAGA
GCTCAAGGTTGTAAGTCCGTCGGAAGCTCGGAATCGGATCTTTTTTGTTTCAGCCAAGGAAGTTCTCAAC
TCCAGAAAGCATAAAGCTCAGGGGATGCCAGAAGGTGGTGGGGCACTTGCAGAAGGATTTCAAGCAAGAT
TACAGGAGTTTCAAAATTTTGAACAAACTTTTGAGGAGTGTATCTCGCAGTCAGCAGTGAAAACAAAGTT
TGAACAGCACACTATCAGAGCTAAACAGATACTAGACACTGTGAAAAACATACTGGACTCAGTAAACGTG
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GAAACCAGATGAACCTTTTAACACTGGATGTTAAGAAGAAGATCAAGGAGGTCACGGAGGAGGTGGCAAA
CAAGGTTTCTTGTGCAATGACAGATGAAATTTGTCGACTATCTGTTTTGGTTGATGAGTTTTGTTCTGAG
TTTCATCCTACCCCCAGTGTACTGAAAGTGTATAAGAGTGAGTTAAATAAGCACATAGAAGATGGCATGG
GAAGAAATTTGGCTGATCGGTGTACCAATGAAGTCAATGCCTCCATTCTTCAATCTCAGCAAGAAATCAT
CGAAAACTTGAAGCCACTACTTCCAGCTGGTATACAGAATAAACTTCATACATTAATCCCTTGCAAAAAG
TTTGACCTCAGCTATGATCTCAATTGCCACAAGCTGTGTTCGGATTTTCAAGAGGACATTGTGTTTCGGT
TTTCCCTGGGCTGGTCTTCCCTTGTACATCGATTCCTGGGTTCCACAAATGCACAGAGGGTGCTGCTCGG
GCTGTCAGAGCCCATCTTTCAGGTCCCTAGATCTTTAGCTTCAACTCCTACTGCTCCTTCTAACCCAGCA
GCCCCGGATAATGCAGCCCAGGAGGAGCTCATGATCACCCTGATCACAGGATTGGCGTCCCTCACGTCGA
GAACCTCCATGGGCATCATCGTTGTTGGGGGCGTGATTTGGAAAACAGTGGGCTGGAAACTAATCTCTGT
CACCTTAAGTATGTACGGAGCTCTGTACCTTTATGAGAGGCTGACGTGGACGACCCGTGCGAAAGAGAGA
GCGTTTAAGCAGCAGTTTGTAAACTATGCAACTGAGAAGCTGCAGATGATTGTGAGCTTCACCAGTGCAA
ACTGCAGCCACCAAGTACAGCAAGAAATGGCCACTACTTTTGCTCGACTGTGCCAACAAGTTGATGTTAC
TCAGAAACATCTGGAAGAGGAAATTGCAAGATTATCCAAAGAGATAGACCAACTGGAGAAAATACAGAAC
AACTCAAAGCTCTTAAGAAATAAAGCTATTCAACTTGAAAGTGAGCTGGAGAATTTTTCGAAGCAGTTTC
TACACCCGAGCAGTGGAGAATCCTAACGGCAGAGGCACTGTAGGAGGAAGCGGACTTGGAAGATGGGAAA
TGTTACTTTATGAAATGACCTCAGTACAAATTACTAACTCTTAGTATCGATGCCTTGCGGAGATTGTGGT
AATGACCTGTCTCAGGGGTTGCACCTTTGGAAGTGTTGTGATTCGCCTTGTCTTAGCATTAGTTTGGAGT
AAAGACTGAATTGTTAAGGTTAAATGATGAATTCCTTTAGAAACAGTGGAACCGGCTGTGCGGCCCCTGA
GGGTGGGTCCTGCAGCTCCTCACCAGGCTGGCTGTCTGCGGCTCTCAGAAGCTGCTTCCTGGCATCCAGG
AGTTAGAGACCTTTTCATCCTTTCTCAGTGCTAGTTCTTGATGCTTCTTTAATGGGAATAGTGAACTTGT
TTATAAGCCGATTTGCTCAAACGAGGGGTGTGGGCTGCTCCTGGGGGGGTCCTGCAATCACTCTGTCCTC
ACAGCAAGGATGTAACCACTACTAAACAGTTTTTACTTTCTTTTATTCCCATTAAAGCTGATGTGAAATA
GTAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_024200

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:	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:	BC056641, AAH56641
RefSeq Size:	2957 bp
RefSeq ORF:	2226 bp
Locus ID:	67414
UniProt ID:	Q811U4
Cytogenetics:	3 15.75 cM
Gene Summary:	Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion (PubMed:12527753, PubMed:23921378, PubMed:24513856, PubMed:15297672). Membrane clustering requires GTPase activity (By similarity). It may involve a major rearrangement of the coiled coil domains (PubMed:15297672). Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission events (PubMed:12527753). Overexpression induces the formation of mitochondrial networks (in vitro). Has low GTPase activity (By similarity).[UniProtKB/Swiss-Prot Function]