

Product datasheet for **MC217641**

Miga1 (NM_001162375) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Miga1 (NM_001162375) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Miga1
Synonyms:	A930038D06; AI852168; C030011O14Rik; Fam73a; Mita1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217641 representing NM_001162375
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGACGAGACAGTCAGCAGATCACAGTTCTCCTTGAAGACGTACGCAGTTAGAGTGTGTTGCTCTCC
 CTGTGTCTTGGTATTATTCTCTCTCCCAGATCAAATTTTACCAGTAGCTAAGAAGCTGTTTCATGGTAAC
 TGCCGTGAGTGCTGTGTCTGTGATTTTTCTGGCCCATCACTTTAAAAGAAGACGGGGAAAACAGAAGGGC
 AAAGTGTGCCCTGGAAACCCGAGCACCTCCTCCTTGAGCACACTAGGAGAGCTGCATCAGAAAAAGGTT
 CGAGTTGCTCCAGCAGTCGGCAGAATCTGACCTTGTGCTTAAGCTCCACCAAGGAGAAAGGATCTCAGTG
 TTGCAACTACCCGAATGGAGGGCTTCTCAGCAGATACTCGGGCTCTGCCAGAGCCTGGGCTCCGTCCAG
 AGTGTAACTCCTGTCAAGTTGTGCTTGTGAAATTCTAATTCCTGGGACAAAGCAGACGATGATGACA
 TCAGACTTGTAAACATTCTGTGACCACACCTGAGAACTATACTGATGGGTATGGAATATTTGAAGA
 GCGGTTACGACGATGGGAACAAGCTCTGACTTTTCAAGTAGACAGGCTGAAGATGAAGCCTGCAGCTCT
 GTTAAACTGGGAGCCGGAGATGCCATTGCAGAAGAAAGTGTGGATGATATTATTAGTTCAGAATTCATCC
 ATAAACTGAAGCTCTACTGCAAAGAGCGTATCGTCTCCAAGAGGAGTTTGGGCTACCCCTGGGGGATC
 TGACCCTAATCCATTGCAAATGATACTGATAAAGACACAGACATGAGCTTGAGGGAGACTATGGATGAG
 CTTGGCCTGCCAGACCCATGAACATGGACTCAGCAGATCTCTTGTCTCAGCAACAGAGCTAATCCTTG
 CAGAAGCAGACAACAGGTCATTCCTTGCTGAAAGTGAAGGAAAATTTTGCAGCTTTAATTGTGAAAGC
 ACGGAAGAATCCAAGAAATTTCAAGATGTTTTGATGAAATGATCAATTTTTAGAGCAGACTGATCAC
 TGGGATAGCACTGAGCTGGAACCTGCTGCCAGAGGGGTGAAAAATTTAAATTTTTATGACGTGGTTCTGG
 ATTTTATATTAATGGATTCCTTTGAAGATTTAGAAAACCCAGCATCCATACAGAGCCTAGTGAACAA
 TCGCTGGCTCAACTCTTCTTCAAAGAAAGCGCTGTGGCTTCAAGTTGTTGGTCAGTGTGAAACAGAAA
 AGGCAACAGATGAAGATCTCAGATGGATTTTTCGCTCATTTTTATGCCATTTGTGAGCATGTCAGCCCTG
 TTTTAGCCTGGGGCTTCTGGGCTCTAGAAATCTCTCTATGACTTATGTTGCTTCTTAAAGAACAAAGT
 TCTTTTCTTCTCAAAGACATCTTCGACTTTGAGAAGGTGCGCTATTCGAGCATAGACACGCTGGCGGAG
 GACCTCACGCACCTACTCATCCGCCGACGGAGCTGCTGGTCACCTGTCTTGGTGCAGATGCCCTGAGGC
 ACGCCACCACTTGACAGAGTGGACTCCACGCCGTGCCACTGCGCTTTAGAAGCCAAAGTACAATA
 A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001162375

Insert Size: 1611 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_001162375.1](#), [NP_001155847.1](#)

RefSeq Size: 5163 bp

RefSeq ORF: 1611 bp

Locus ID: 215708

UniProt ID: [Q4QQM5](#)

Cytogenetics: 3 H3

Gene Summary: Regulator of mitochondrial fusion (PubMed:26711011). Acts by forming homo- and heterodimers at the mitochondrial outer membrane and facilitating the formation of PLD6/MitoPLD dimers. May act by regulating phospholipid metabolism via PLD6/MitoPLD (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks two exons in the coding region compared to variant 1. The encoded isoform (2) is shorter but has the same N- and C-termini compared to isoform 1.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.