

Product datasheet for **MC228403**

Miga2 (NM_001242407) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Miga2 (NM_001242407) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Miga2
Synonyms:	5730472N09Rik; AA408683; AI790341; C9orf54; Fam73b; R74766
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228403 representing NM_001242407
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATTCCGGAGGACTGAGGGTATGTCCATGATCCAGGCTCTGGCCATGACTGTGGCTGAGATCCAG
 TGTTCTGTACACAACCTTTGGTCAGTCCGCTTCTCCAGCTGCGGTTGACACCGGCCTGAGGAAGT
 TCTTTTGGCCACAGCCCTTGGGACTGTGGCCTTGCCCTGGCTGCCACAGCTGAAAAGCGCCGCGG
 AAGAAGAAGCAGGTGGGCCCTGAGATGGGAGGTGAGCAGCTGGGCACGGTGCCCATGCCATCCTCATGG
 CCCGCAAGGTCCCTTCGGTGAAGAAAGGCTGCTCCAGCAGGAGGGTTCAGAGCCCAGCAGCAAGAGCAA
 CGACACTCTTAGTGGCATCTCCTCCATCGAGCCAGCAAGCACTCAGGCTCCTCCACAGCTGGCTCG
 ATGGTAGTGGTCAATTCACAGCCCTACAGCTGCGTGTCTCAGGTTTCATGGGAAGCCGAGGGATGGAGG
 AGTCTGTGCCACCACTGATGGCAGTCCGAGAGCCTCTATGTGCAAGGCATGGAGCTGTTTGGGAAGC
 CCTGCAGAAATGGGAGCAGGCCTGAGTGTGGCCAGAGAGGGGATGGAGGCAGCACCCACACAGGC
 GACAGCCTCCAGAACCAGACCCGCATCAGAAGCACTGTGAGCCAGAGTCCCAACGAAGGGAGTTG
 CTGAGAAGCTGGAGTCCCTGCTGCACCGGGCTACCACCTGCAGGAAGAGTTGGCTCTACCTTCCCTC
 TGACAGCATGCTGTTGGATCTTGAGAGGACCCTAATGCTGCCACTGACTGAGGGCTCACTGCGACTTCGA
 GCTGACGATGAGGACAGCCTGACCTCTGAAGACTCCTTTTTCTCAGCCACTGAGATCTTTGAGTCCCTGC
 AGATCGGCGAGTACCCGCTTCTCTCCAGCCCTGCTGCTGCCTACGAGGAGGCTCTGCAGCTGGTGAA
 GGAAGGAAGAGTCCCTTGCCGAACACTCAGGACAGAGCTGCTGGGCTGTACAGTGACCAGGACTTCCTA
 GCCAAGCTGCATTGTGTACGGCAGGCCTTTGAGGGCTTCTAGAAGAAAGAAGCAACCAGATCTTCTTTG
 GGGAGGTCGGCCGCGAGATGGTGACGGCCTGATGACCAAGGCTGAGAAGAGTCCCAAAGGCTTCTGGA
 GAGCTATGAGGAGATGCTGAGCTACGCCCTGCGCCTGAGACCTGGGCTACCACCCGGCTGGAGCTGGAG
 GGCAGAGGGTGGCCTGCATGAGCTTCTCGACATCGTGTGGACTTCATCCTCATGGATGCCTTTGAGG
 ACCTAGAGAACCCTCCGTCTTCGGTGTGCTGTCTGAGGAACCGCTGGCTGTCTGACAGCTTCAAAGA
 AACAGCCCTAGCCACCGCTGCTGGTCTGTCTGAAAGCCAAGAGGAGGCTCCTGATGGTGCCTGATGGC
 TTCATCTCCATTTCTACTCCGTATCGGAGCATGTTAGCCCTGTGTTGGCCTTTGGCTTCTCGGACCCA
 AGCCCCAGCTCTCGAAGTCTGTGCTTTCTTCAAGCACCAGATTGTACAATACCTGAGGGACATGTTTGA
 CCTGGACAACGTGCGCTACACATCTGTGCCAGCCCTAGCAGAAGACATCTACAGCTGTCCCGGCGGCGC
 AGCGAGATTCTATTGGGCTACCTGGGGCACCTGTGGCTAGTAGCATCGGCTGAATGGGCCACTGCCTC
 GAGAAAATGGGCCCTGGAAGAGCTGCAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001242407
- Insert Size:** 1782 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001242407.1](#), [NP_001229336.1](#)

RefSeq Size: 3394 bp

RefSeq ORF: 1782 bp

Locus ID: 108958

UniProt ID: [Q8BK03](#)

Cytogenetics: 2 B

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) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.