

Product datasheet for **MR230614**

Miga2 (NM_001242407) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Miga2 (NM_001242407) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR230614 representing NM_001242407
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATTCCGGAGGACTGAGGGTATGTCCATGATCCAGGCTCTGGCCATGACTGTGGCTGAGATCCAG
 TGTTCTGTACACAACCTTTGGTCAGTCCGCGTTCTCCAGCTGCGGTTGACACCGGCCTGAGGAAGGT
 TCTTTTGGCCACAGCCCTTGGGACTGTGGCCTTGCCCTGGCTGCCACACAGCTGAAAAGCGCCGGCGG
 AAGAAGAAGCAGGTGGGCCCTGAGATGGGAGGTGAGCAGCTGGGCACGGTGCCCATGCCATCTCATGG
 CCCGCAAGGTCCCTTCGGTGAAGAAAGGCTGCTCCAGCAGGAGGGTTAGAGCCCGAGCAGCAAGAGCAA
 CGACACTTCTAGTGGCATCTCTCCATCGAGCCAGCAAGCACTCAGGCTCTCCACAGCCTGGCCTCG
 ATGGTAGTGGTCAATTCACAGCCCTACAGCTGCGTGTCTCAGGTTTATGGGAAGCCGAGGGATGGAGG
 AGTCTGTGCCACCACTGATGGCAGTGCCGAGAGCCTCTATGTGCAAGGCATGGAGCTGTTTGGGAAGC
 CCTGCAGAAATGGGAGCAGGCACTGAGTGTGGCCAGAGAGGGGATGGAGGCAGCACCCACACAGGC
 GACAGCCTCCAGAACCAGACACCGCATCAGAAGCACTGTGAGGCCAGAGTCCCAACGAAGGGAGTTTG
 CTGAGAAGCTGGAGTCCCTGCTGCACCGGGCTACCACCTGCAGGAAGAGTTTGGCTCTACCTTCCCTC
 TGACAGCATGCTGTTGGATCTTGAGAGGACCCTAATGCTGCCACTGACTGAGGGCTCACTGCGACTTCGA
 GCTGACGATGAGGACAGCCTGACCTCTGAAGACTCCTTTTTCTCAGCCACTGAGATCTTTGAGTCCCTGC
 AGATCGGCGAGTACCCGCTTCTCTCCAGCCCTGCTGCTGCCTACGAGGAGGCTCTGCAGCTGGTGAA
 GGAAGGAAGAGTCCCTTGCCGAACACTCAGGACAGAGCTGCTGGGCTGCTACAGTGACCAGGACTTCCTA
 GCCAAGCTGCATTGTGTACGGCAGGCCTTTGAGGGCTTCTAGAAGAAAGAAGCAACCAGATCTTCTTTG
 GGGAGTTCGGCCGAGATGGTGACGGCCTGATGACCAAGGCTGAGAAGAGTCCCAAAGGCTTCTGGA
 GAGCTATGAGGAGATGCTGAGCTACGCCCTGCGCCTGAGACCTACCACCCGGCTGGAGCTGGAG
 GGCAGAGGGTGGCCTGCATGAGCTTCTCGACATCGTGTGGACTTCATCCTCATGGATGCCTTTGAGG
 ACCTAGAGAACCCTCCGTCTTCGGTGTGCTGTCTGAGGAACCGCTGGCTGTCTGACAGCTTCAAAGA
 AACAGCCCTAGCCACCGCTGCTGGTCTGTCTGAAAGCCAAGAGGAGGCTCCTGATGGTGCCTGATGGC
 TTCATCTCCATTTCTACTCCGATCGGAGCATGTTAGCCCTGTGTTGGCCTTTGGCTTCTCGGACCCA
 AGCCCCAGCTCTCGAAGTCTGTGCTTCTTCAAGCACCAGATTGTACAATACCTGAGGGACATGTTGGA
 CCTGGACAACGTGCGCTACACATCTGTGCCAGCCCTAGCAGAAGACATCTACAGCTGTCCCGGCGGCGC
 AGCGAGATTCTATTGGGCTACCTGGGGCACCTGTGGCTAGTAGCATCGGCTGAATGGGCCACTGCCTC
 GAGAAAATGGGCCCTGGAAGAGCTGCAG

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230614 representing NM_001242407
 Red=Cloning site Green=Tags(s)

MAFRRTGMSMIQALAMTVAEIPVFLYTTFGQSASFSQLRLTPGLRKVLFATALGTVALALAAHQLKRRRR
 KKKQVGPMEGGEQLGTVPMPIILMARKVPSVKKGCSSRRVQSPSSKSNDTLSGISSIEPSKHSGSSSHSLAS
 MVVVNSSSPTAACSGSWEARGMEESVPTTDGSAESLYVQGMELFEEALQKWEQALSVGQRGDGGSTPTPG
 DSLQNPDTASEALSEPESQRREFAEKLESLLHRAYHLQEEFGSTFPSDSMLLDLERTLMLPLTEGSLRLR
 ADDEDSLTSSEDSFFSATEIFESLQIGEYPLPLSRPAAAYEEALQLVKEGRVPCRTLRTTELLGCYSDQDFL
 AKLHCVRQAFEGLLLEERSNQIFFGEVGRQMTGLMTKAEKSPKGFLESYEEMLSYALRPETWATTRLELE
 GRGVACMSFFDIVLDFILMDAFEDLENPPSSVLAVLRNRWLSDFKETALATACWSVLKAKRRLLMVPDG
 FISHFYVSEHVSPVLAFLGFLGPKPQLSEVCAFFKHQIVQYLRDMFDLDNVRYTSPALAEIDILQLSRRR
 SEILLGYLGAPVASSIGLNGLPRENGPLEELQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001242407

ORF Size: 1779 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

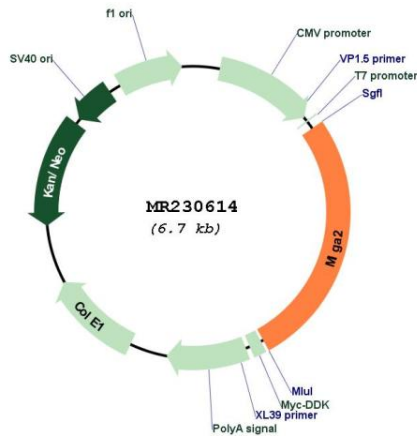
UniProt ID: [Q8BK03](#)

Cytogenetics: 2 B

MW: 65.5 kDa

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]

Product images:



Circular map for MR230614