

Product datasheet for **MR209304**

Migal (NM_174868) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Migal
Synonyms:	A930038D06; AI852168; C030011O14Rik; Fam73a; Mital
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR209304 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCAGACGAGACAGTCAGCAGATCACAGTTCTCCTTGAAGACGTACGCAGTTAGAGTGTTTGCTCTCC
 CTGTGTCTTGGTATTATTCTCTCTCCAGATCAAATTTTACCAGTAGCTAAGAAGCTGTTTCATGGTAAC
 TGCCGTGAGTGCTGTGTCTGTGATTTTCTGGCCCATCACTTTAAAGAAGACGGGAAAAACAGAAGGC
 AAAGTGCTGCCCTGGGAACCCGAGCACCTCCTCTTGAGCACATAGGAGAGCTGCATCAGAAAAAGGTT
 CGAGTTGCTCCAGCAGTCGGCAGAACTGACCTTGTCGTTAAGCTCCACCAAGGAGAAAGGATCTCAGTG
 TTGCAACTAGCCGAATGGAGGGCTTCTCAGCAGATACTCGGGCTCTGCCAGAGCCTGGGCTCCGTCCAG
 AGTGTTAACTCCTGTATAGTTGTGCTTGTGGAATTCTAATTCCTGGGACAAAGCAGACGATGATGACA
 TCAGACTTGTTAACATTCTGTGACCACACCTGAGAACTTATACCTGATGGGTATGGAATTATTTGAAGA
 GCGGTTACGACGATGGGAACAAGCTCTGACTTTTGAAGTAGACAGGCTGAAGATGAAGCCTGCAGCTCT
 GTTAAACTGGGAGCCGAGATGCCATTGCAGAGAAAGTGTGGATGATATTATTAGTTTCAGAAATTCATCC
 ATAACTTGAAGCTCTACTGCAAGAGCGTATCGTCTCCAAGAGGAGTTTGAGGCTACCCCTGGGGGATC
 TGACCCTAATTCCATTGCAATGATACTGATAAGACACAGACATGAGCTTGAGGGAGACTATGGATGAG
 CTTGGCCTGCCAGACCCATGAACATGGACTCAGCAGATCTTTTGCTTCAGCAACAGAGCTCGCAGAGC
 AGAGAGAAGCGCAGCAGACCTTCAGCCTGGAGTCTTTTTGTCCCTGCCCTTTCTACGAAGAAGCTATGCA
 TTTAGTTGAAGAAGGAAAAATTTACTCCAGAGTGCTGAGAACGGAGATGCTGGAGTGCCTGGGAGACAGT
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 ATTTCAAGATGTTTTGATGAAATGATCAATTTTATAGAGCAGACTGATCACTGGGATAGCACTGAGCTG
 GAACTTGCTGCCAGAGGGGTGAAAAATTTAAATTTTATGACGTGGTTCTGGATTTTATATTAATGGATT
 CCTTTGAAGATTTAGAAAACCCACCGACATCCATACAGAGCGTAGTGAACAATCGCTGGCTCAACTCTTC
 CTTCAAGAAAGCGCTGTGGCTTCAAGTTGTTGGTCAGTGCTGAAACAGAAAAGGCAACAGATGAAGATC
 TCAGATGGATTTTTCGCTCATTTTTATGCCATTTGTGAGCATGTCAGCCCTGTTTTAGCCTGGGGCTTCT
 TGGGTCTAGAAATCTCTCTATGACTTATGTTGCTTCTTAAAGATCAAGTCTTTTCTTCTCAAAGA
 CATCTTCGACTTTGAGAAGGTGCGCTATTCGAGCATAGACAGCTGGCGGAGGACCTCACGCACCTACTC
 ATCCGCCGACGGAGCTGCTGGTCACCTGTCTTGGTGCAGATGCCCTGAGGCACGCCACCACTTGCACGA
 GTGGACACTCCACGCGTGCCCACTGCGCTCTTAGAAGCCAAAGTACAA

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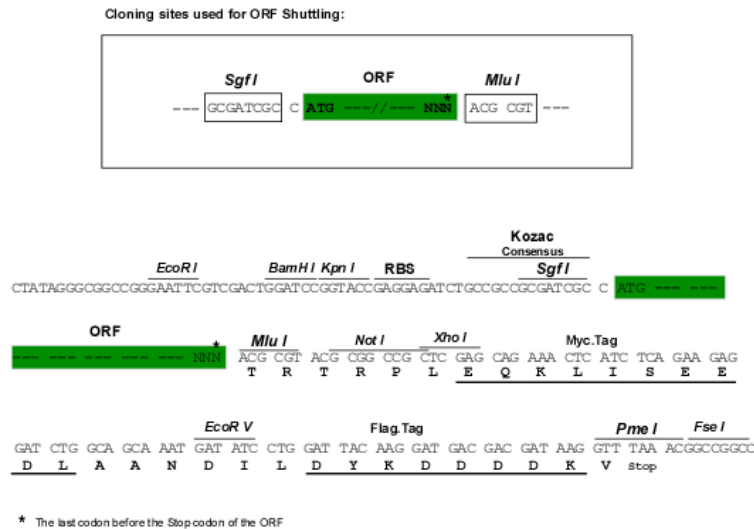
Protein Sequence: >MR209304 protein sequence
 Red=Cloning site Green=Tags(s)

MSDETYSRSQFSLKTYAVRVFALPVSWYYSLSQIKFSPVAKKLFMVTAVSAVSVIFLAHHFKRRRGKQKG
 KVLWPEPEHLLLEHTRRAASEKGSSSSSRQNLTLSSLSTKEKGSQCCNYPNGLLSRYSGSAQSLGVSQ
 SVNSCHSCACGNSNSWDKADDDIRLVNIPVTPENLYLMGMELFEEALRRWEQALTFRSRQAEDEACSS
 VKLGAGDAIAEESVDDIISSEFIHKLEALLQRAYRLQEEFEATLGSDPNSIANDTKDMDMSLRETMD
 LGLPDAMNMSADLFAATELAEQREAQQTFSLESFCPCPFYEEAMHLVEEGKIYSRVLRTMLECLGDS
 DFLAKLHCIRQAFQLILAEADNRSFLAESGRKILSALIVKARKNPKKFQDVFDeminFLEQTDHWDSTEL
 ELAARGVKNLNFYDVVLDILMDSFEDLENPTSIQSVVNNRWLNSSFKEASAVASSCWSVLKQKRQMKI
 SDGFFAHFYAICEHVSPVLAWGFLGPRNSLYDLCCFFKNQVLFLLKIDFDFEKVRYSSIDTALDLTHLL
 IRRTELLVTCLGADALRHATTCTSGHSHAVPTALLEAKVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_174868

ORF Size: 1800 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_174868.4](#), [NP_777357.2](#)

RefSeq Size: 5355 bp

RefSeq ORF: 1803 bp

Locus ID: 215708

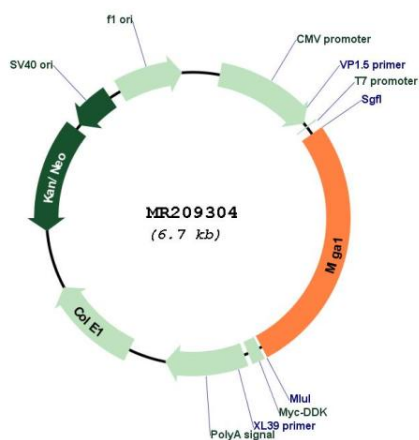
UniProt ID: [Q4QQM5](#)

Cytogenetics: 3 H3

MW: 67.5 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 MR209304