

Product datasheet for **MR207258**

Mief2 (NM_001009927) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Mief2
Synonyms:	AI482195; Gm1l; Smcr7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR207258 representing NM_001009927
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGCAGAGTTCTCCAGAAGCAGAGGAAACAGAGCGGCAGCGAGGGCCTGGGCAGTGTGGTGGACTTCC
 TCTTGGCTAATGCTCGATTGGTGCTAGGTGTGGGCGGGGCTGCAGTGCTGGGCATTGCTACCCTGGCTGT
 AAAGCGGCTCATCGACAGGGCCACAGCCCTCCAGATGAGGATGACACCAAGGGGGACAGCTGGAAGGAA
 CTGAGCCTGCTGAGAGCCACATCGCCCCAAAAGCCCCAACCCCTCTGCTGCTTCAGCCAGCCCTAG
 CTACTGGGTCCCCCTCCCCCTCTGTGCCAGTGGAGCCACGCCATTATTCTCCACGACACCTAAGTT
 CAGCACTATAGCACCCCTGTGCTGACGTTCCAGGAGAGGCTGCTGGCCTTCGAGCGCAAGCATGTGATT
 ACCCCAGAAGCCACGTGACGTTGGCGAAACAGCTGGCTGGAGACATTGCCTTGGAGCTGCAGGCCTACT
 TGAGGAGCAAGTTCAGAACTGCCCTTTGGTGCACTCGTGCCGGTGGGCCTCTCTACGACGGGCTCCA
 GGCAGGGACTGCTGAGCACGTGCGCCTGCTGGCGCCTCTGGAGTTGGAGCCGGGGCTATGGAGCCTGGTA
 CCTGGCGTGGACACTGTGGCCAGGGAGCCTCGATGCTGGGCTGTACGCAGGACTCAGCTTGAGTTTCATC
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 GCTACGGAAGGCCCTGTGAGCCTCTGTCACTGGCCAGCCATTGGCAGCCTGCTCGGGTGTCTGATCTGG
 CCCGATGTGGCTTCGGAGGAGCTGCTGCTCAAAGTGAACACGAGTGCTGGAGTTCACTTTAGCTGTGC
 TCATGGTAGTCCCTGGGGCCAGCACTGATGACCGCCTGCTGCTGGCTTGCCCTAGAGGGGCTGGCCAG
 CAATCTCTGGCTGAGGATCTATATCCAGTAGAGACCGCCGTTTTCGGGGCCCTGGATGACCAGGATGCT
 GGTACTCGGCGGAGGTTGTTGCTGCTGTGTGGTATCTGTCTGGCCATCCGGCTCTAGTGCGGCTGG
 GCTGGAGCCACCTGACTCAGGTGGTTCTGCATCTGGGTGAAGAGGAAGTGGCCTGGACTGAGGAGGCCTT
 GGGGGAACGGTTTCTGCAAGCCCTGGAGTTTCTGGTGGGCAGCTTGAGCAGGCTAGCCTGCCCTGTCAC
 TTCAACCCCAAGTGTGAACCTCTTGGTAACCTCCGGGAAGAGGAGATTGATGACATTGGCTACGTGCTGT
 ACAGCGGCCTCCAGGTTCTGAAAGCCTATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR207258 representing NM_001009927
 Red=Cloning site Green=Tags(s)

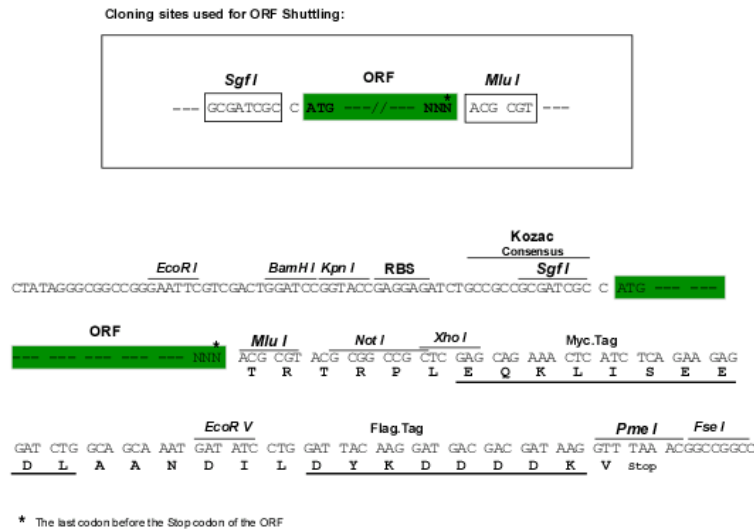
MAEFSQKQRKQSGSEGLGSVVDLLANARLVLGVGAAVLGIATLAVKRLIDRATSPDDEDDTKGDSWKE
 LSLLRATSPQKPQPPPAFSSQPLATGSPSPVPVEPTPIHSPPTPKFSTIAPLCLTFQERLLAFERKHVI
 TPEAHVTLAKQLAGDIALELQAYLRSKFPELPFGALVPGGPLYDGLQAGTAEHVRLAPLELEPGLWSLV
 PGVDTVAREPRCWAVRRQTLEFHPRGCSPPDRFLVGGYLSRVLLLELLRKALSASVNWPAIGSLLGCLIW
 PDVASEELLKQVHECLEFTLAVLMVVPGASTDDRLLLAWPLEGLASNLWLQDLYPVETARLRALDDQDA
 GTRRRLLLLCGICRGHPALVRLGWSHLTQVVLHLGEEVAVWTEALGERFLQALEFLVGSLEQASLPCH
 FNPSVNLLGNFREEEIDDIGYVLYSGLQVPESLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9017_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001009927

ORF Size: 1362 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_001009927.2](#), [NP_001009927.1](#)

RefSeq Size: 2564 bp

RefSeq ORF: 1365 bp

Locus ID: 237781

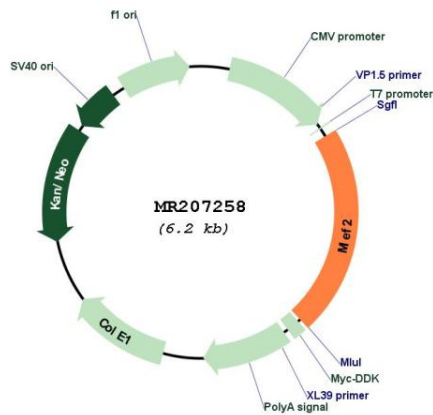
UniProt ID: [Q5NCS9](#)

Cytogenetics: 11 B2

MW: 50.1 kDa

Gene Summary: Mitochondrial outer membrane protein which regulates mitochondrial organization. It is required for mitochondrial fission and promotes the recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the mitochondrial surface independently of the mitochondrial fission FIS1 and MFF proteins. Regulates DNM1L GTPase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207258