

Product datasheet for **MC216374**

Mief1 (NM_178719) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mief1 (NM_178719) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mief1
Synonyms:	A230016E22; AI452372; Smcr7l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216374 representing NM_178719
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGGCGCTGGT**GAGCGCAAAGGGAAGAAGGATGACAATGGCATTGGTACGGCCATCGATTTTGTGC**
 TCTCCAATGCCCGCTGGT**GCTGGGTGGAGCAGCTATGTTGGGCATCGCCACACTGGCAGTTAA**
 GCGGATGTATGACCGGGCAATCAGT**GCCCTACCAGCCCTACCCGCCTAAGCCATT**CAGGGAAGAGGAGC
 TGGGAGGAGCCAACTGGATGGGCTCTCCTCGCCTATTGAACAAGGACATGAAGGCAGGCCTGAGCCGGT
 CCCTGCAGACCCTTCCACAGACTCTTCTGCCTTTGACACAGATACATTCTGCCACCCCGCCAAACC
 ATTGGCCAGGAGGGCCAGGTAGACTTGAAGAAGT**CACGACTCCGCATGTCCTGCAGGAGAAACTTCTT**
 TCTTACTACCGGAACCGGCAGCCATCCCTGCTGGAGAGCAGGCTCGGGCCAAGCAAGCTGCGGTGGACA
 TATGTGCTGAGCTCCGGAGCTTCTCGGGCCAAGCTGCCTGATATGCCACTTCGGGACATGACTTGAG
 TGGCAGCCTCTATGATGATCTGCAGGTGGT**GACGGCTGACCATATCCA**ACTATTGTCCTTGTGCTG
 GAGCAGAACTGTGGTCA**TGCATACCTGGG**GAGGACACCATCATGAATGTCCCTGGTTTCTTCTCGTTC
 GTCGTGAGAACCAGAGTACTTTCTCGTGGT**TAGCAGTTATTGGG**ACCGATGTGTTGTAGGTGGCTACCT
 CTCCCAAAGACAGTGGCAGACACCTTTGAGAAAGTGGTGGCAGGCTCCATCAACTGGCCAGCCATAGGG
 TCCCTCTTAGACTATGTGATCCGACCAGCACCACCCAGAGGCCCTGACACTAGAAGTTCAGTATGAGA
 AGGACAAACATCTTGTCATTGACTTCTGCCATCAGTAACCCTTGGTGACACTGTCTTGGTGGCCAGACC
 ACACCGTTAGCTCAGTATGACAACCTGTGGCGGCTGAGCCTTCGCTCCTGCTGAGACAGCAGCCTTACGG
 GCTTTGGACCAGCGGACTCCGGCTGCCGTCTCTTGCCTCAAGATCCTCAAGGCCATATGCAAGTCCA
 CTCCAGCTCTGGCCACCTCACTGCCAGCCAGCTAACCAACGTCATCTCCACTTGGCCAGGAGGAGGC
 TGACTGGTCTCCAGACATGTTGGCTGACCGCTTCTACAGGCCCTGAGGGGACTCATCAGCTACTTGGAG
 GCTGGGTCTTGCCAGTGCCCTGAACCCTAAGGTGAACCTATTTGCAGAGCTCACCCCTCAAGAAATAG
 ACGAGTTGGGATATACCCTCTACTGCTACTGTCTGAGCCGGAGGTGCTGCTGCAGACGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_178719

Insert Size: 1392 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: [BC137633](#), [AAI37634](#)

RefSeq Size: 3281 bp

RefSeq ORF: 1392 bp

Locus ID: 239555

UniProt ID: [Q8BGV8](#)

Cytogenetics: 15 E1

Gene Summary: Mitochondrial outer membrane protein which regulates mitochondrial fission. 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 and DNM1L oligomerization. Binds ADP and can also bind GDP, although with lower affinity. Does not bind CDP, UDP, ATP, AMP or GTP. Inhibits DNM1L GTPase activity in the absence of bound ADP. Requires ADP to stimulate DNM1L GTPase activity and the assembly of DNM1L into long, oligomeric tubules with a spiral pattern, as opposed to the ring-like DNM1L oligomers observed in the absence of bound ADP. Does not require ADP for its function in recruiting DNM1L.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. 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.