

Product datasheet for **MC227123**

Mgme1 (NM_001289631) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mgme1 (NM_001289631) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mgme1
Synonyms: 8430406I07Rik; AI426476
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227123 representing NM_001289631
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAACTGCCTCTGACCTTCTGCAGGCTGCTTAGCAGGTTAAACAGATTTTCTGTAAAAGCAAGCCCTC
CTGTGAGTTTCTCCACTTCTCTTATTTGTGTAGCCAGAAGAAGAAAACTTTACGAAGCAGTAGACCA
AGCGAAGTACTCTCGTTTAGTACGCTCTGTCTTGTCCAGAGGCCCGCCAGACTCCAGAGTCGTTGTTT
AAGGAAGATGATGACTGTATGGACCAGTGAGTAAGCATAAGGCTGCAGAGCCGGAGCCACAGGCCAGAG
TCCCACAACACTGCTTCTCTATCTTCAATGAAGAGAGAACCAGGAAACCACACAGATGCTTCTTCAAG
CCCTTTGAAGATCCCTTTGCAAAGGAACCGATACCCAGTGTGACCCGCATCCTTCAGCAGACCATGCCA
CCTGAACAGAGCTTCTTTTGGAGAGGTGGAAAGAGCGGATGGTTCTGGAGCTGGGAGAAGACGGGTTT
CAGAATACTTCAAATGTGTTTTACAAGGCAACAGTTCCATAAAGCCTTGGAAAGCATACTGTCACC
CCAGGAGAACCTAACAGGGGAGAAGAGCACCCCAAGTGTGGCTACATCGAAAGCATCCAGCATATTCTG
ACAGAAATCAGTGGTGTGCAAGCTCTGGAGAGTGCCGTCAGCATGAGGCCTTGAAGTATGATGGGCTGC
TGGACTGTGTGGCTGAGTACCGGGCAAGCTGTGTGATTGATTGGAAGACATCAGAAAAACCAAAACC
TTAATTCGAAATACATATGACAACCCGCTGCAAGTTGTGGCGTACATGGGTGCCGTAACCATGATGCC
CACTACAGTTTTCAGGTTCAAGTGTGGATTAATTGTGGTGCCTATAAGGATGGGTCCCCTGCCACCCCTC
ACTTCATGGATGAAGAGCTCTGTTCCAAGTATTGGCCAAGTGGCTTCTCCGACTAGAAGAATATACAGA
AAAGCAAAAGAACCTGAGCGCTCCAGAGCCAGCGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001289631



Insert Size:	1017 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:	<ol style="list-style-type: none">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:	<u>NM_001289631.1</u> , <u>NP_001276560.1</u>
RefSeq Size:	2778 bp
RefSeq ORF:	1017 bp
Locus ID:	74528
UniProt ID:	<u>Q9CXC3</u>
Cytogenetics:	2 G1
Gene Summary:	<p>Metal-dependent single-stranded DNA (ssDNA) exonuclease involved in mitochondrial genome maintenance. Has preference for 5'-3' exonuclease activity but is also capable of endonuclease activity on linear substrates. Necessary for maintenance of proper 7S DNA levels. Probably involved in mitochondrial DNA (mtDNA) repair, possibly via the processing of displaced DNA containing Okazaki fragments during RNA-primed DNA synthesis on the lagging strand or via processing of DNA flaps during long-patch base excision repair (By similarity). Specifically binds 5-hydroxymethylcytosine (5hmC)-containing DNA in stem cells. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. All four variants encode the same protein.</p>