

## Product datasheet for **MC201533**

### Nme4 (NM\_019731) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nme4 (NM_019731) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nme4
Synonyms:	2610027N22Rik; 2810024O08Rik; 5730493H09Rik; NM23-M4; Nm23M4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC027277 sequence for NM_019731 CTTTGCGCGGCGTTCAATGCGGGCCAGCCCGCAACATGGGCAGCCTTTTCGGGCGCGTCGCGGGCGCTGC GGGCGCTGTTGTGCGGGCCAGCCTTTTCAGTGCTGCTGGTGCGCCCCAGTTCGGAGGCCCCCCCTGGCC CCAAGAGCGGACGCTGGTTGCTGTGAAGCCAGATGGGGTACAGAGGAGGCTAGTGGGACTGTGATACAA CGCTTTGAGAGGCGGGGCTTCAAGCTGGTGGGATGAAGATGTTGCAGGCACCAGAAAGCATCCTTGCTG AGCACTACCGGGACCTACAGAGGAAGCCATTCTACCCAGCTCTTATCAGCTACATGAGCTCTGGCCTGT GGTGGCCATGGTCTGGGAAGGCCCAATGTGGTTCATATCTCAAGGGCCATGATAGGACACACCGACTCA ACAGAGGCAGCCCTGGGACAATCAGGGGCGACTTCAGTGTTACATCAGCAGGAACGTCATCCATGCTA GCGATTCTGTGGATGGGGCCAGAGGGAGATCGAGCTGTGGTTTCAGAGCAGCGAACTGTTGAACTGGGC AGATGGTGGTACCACAGCAGCTGCTACCCTGCCTGAGGGCTTGCCTTCTGCACTTCAGGTCTAC CCATGACCTACTACCTCTGTCAACAAGAAGTCAAGCCCCATGCTTCCCATGTCCCAAACCACTCCCTA CTCTCGCTCTACCAACTCCAGCCCAGGGGAGTCTAAGCCTCAACTCTATGTGCCTTTTTGTATCCTAAG TCAATACAATATTGGACCATGTCCTTGTGTACAAAAGTGCCAGACAATCTTTGGGGCATTGTCAAAGGTG ACTTCACCTGCCTCAAAGGAGAGACATTAATAATTTTATGCTTAAATGGAAGAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_019731
Insert Size:	561 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).



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**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:** [BC027277](#), [AAH27277](#)

**RefSeq Size:** 905 bp

**RefSeq ORF:** 561 bp

**Locus ID:** 56520

**UniProt ID:** [Q9WV84](#)

**Cytogenetics:** 17 A3.3

**Gene Summary:** Major role in the synthesis of nucleoside triphosphates other than ATP. The ATP gamma phosphate is transferred to the NDP beta phosphate via a ping-pong mechanism, using a phosphorylated active-site intermediate. Through the catalyzed exchange of gamma-phosphate between di- and triphosphonucleosides participates in regulation of intracellular nucleotide homeostasis. Binds to anionic phospholipids, predominantly to cardiolipin; the binding inhibits its phosphotransfer activity. Acts as mitochondria-specific NDK; its association with cardiolipin-containing mitochondrial inner membrane is coupled to respiration suggesting that ADP locally regenerated in the mitochondrion innermembrane space by its activity is directly taken up via ANT ADP/ATP translocase into the matrix space to stimulate respiratory ATP regeneration. Proposed to increase GTP-loading on dynamin-related GTPase OPA1 in mitochondria. In vitro can induce liposome cross-linking suggesting that it can cross-link inner and outer membranes to form contact sites, and promotes intermembrane migration of anionic phospholipids. Promotes the redistribution of cardiolipin between the mitochondrial inner membrane and outer membrane which is implicated in pro-apoptotic signaling (By similarity).[UniProtKB/Swiss-Prot Function]