

# Product datasheet for MR201741

## Nme4 (NM\_019731) Mouse Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Nme4 (NM_019731) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nme4
Synonyms:	2610027N22Rik; 2810024O08Rik; 5730493H09Rik; NM23-M4; Nm23M4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201741 representing NM_019731 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGGCAGCCTTTTCGGGCGCGCGCGCGCGCGCGCGCGCG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>MR201741 representing NM_019731 Red=Cloning site Green=Tags(s)
	MGSLFGRVAALRALLCGPRFQCLLVRPSSGGPPWPQERTLVAVKPDGVQRRLVGTVIQRFERRGFKLVGM KMLQAPESILAEHYRDLQRKPFYPALISYMSSGPVVAMVWEGPNVVHISRAMIGHTDSTEAAPGTIRGDF SVHISRNVIHASDSVDGAQREIELWFQSSELLNWADGGHHSSCYPA
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mm9039_b12.zip



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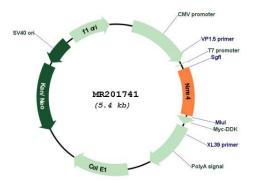
### Source Content and Content and



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	Nme4 (NM_019731) Mouse Tagged ORF Clone – MR201741
Locus ID:	56520
UniProt ID:	<u>Q9WV84</u>
Cytogenetics:	17 A3.3
MW:	21 kDa
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 phosphoplipids. 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]

# **Product images:**



Circular map for MR201741

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