Product datasheet for MR201104

Nme1 (NM_008704) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nme1 (NM_008704) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nme1
Synonyms:	AL024257; NDPK-A; NM23-M1; NM23A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201104 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCAACAGTGAGCGCACCTTCATTGCCATCAAGCCTGATGGGGTCCAGCGGGGGCTGGTGGGCGAGA TCATCAAGCGGTTCGAGCAGAAGGGGTTCCGCCTTGTTGGTCTGAAGTTTCTGCAGGCTTCAGAGGACCT TCTCAAGGAGCACTACACTGACCTGAAGGACCGCCCCTTCTTTACTGGCCTGGTGAAATACATGCACTCA GGACCAGTGGTTGCTATGGTCTGGGAGGGTCTGAATGTGGTGAAGACAGGCCGCGTGATGCTTGGAGAGA CCAACCCCGCAGACTCTAAGCCTGGGACCATACGAGGAGACTTCTGCATCCAAGTTGGCAGGAACATCAT TCATGGCAGCGATTCTGTAAAGAGCGCAGAGAAGGAGATCAGCTTGTGGTTTCAGCCTGAGGAGCTGGTG GAGTACAAGAGCTGTGCGCAGAACTGGATCTATGAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR201104 protein sequence Red=Cloning site Green=Tags(s) MANSERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVGLKFLQASEDLLKEHYTDLKDRPFFTGLVKYMHS GPVVAMVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVKSAEKEISLWFQPEELV EYKSCAQNWIYE TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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Cloning Scheme:

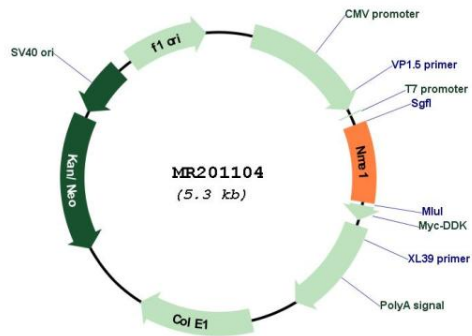|	
ACCN:	NM_008704
ORF Size:	459 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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.
RefSeq:	NM_008704.3
RefSeq Size:	1235 bp
RefSeq ORF:	459 bp
Locus ID:	18102
UniProt ID:	P15532

Cytogenetics:	11 D
MW:	17.2 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. Possesses nucleoside-diphosphate kinase, serine/threonine-specific protein kinase, geranyl and farnesyl pyrophosphate kinase, histidine protein kinase and 3'-5' exonuclease activities. Involved in cell proliferation, differentiation and development, signal transduction, G protein-coupled receptor endocytosis, and gene expression. Required for neural development including neural patterning and cell fate determination. During GZMA-mediated cell death, works in concert with TREX1. NME1 nicks one strand of DNA and TREX1 removes bases from the free 3' end to enhance DNA damage and prevent DNA end reannealing and rapid repair (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MR201104