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Product datasheet for MG201106

Nme2 (NM_008705) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nme2 (NM_008705) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nme2
Synonyms:	NM23-H2; nm23-M2; NM23B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG201106 representing NM_008705
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAACCTCGAGCGTACCTTCATTGCCATCAAGCCAGATGGCGTGCAGCGCGGCCTGGTGGGCGAGA
TCATCAAACGGTTCGAGCAGAAGGGGTTCCGCCTGGTGGCCATGAAGTTCCTTCGGGCCTCTGAAGAACA
CCTGAAGCAGCATTACATCGACCTGAAAGACCGTCCTTTCTTCCCGGGGCTGGTGAAGTACATGAACTCG
GGGCCCGTGGTGGCCATGGTCTGGGAGGGGCTCAATGTGGTGAAAACGGGCCGAGTGATGCTGGGGGAGA
CCAATCCAGCTGATTCAAAACCAGGCACCATCCGTGGGGATTTCTGCATTCAAGTTGGCAGGAACATCAT
TCATGGCAGTGATTCAGTGGAGAGTGCTGAGAAAGAGATCCATCTGTGGTTTAAGCCCGAAGAACTGATC
GACTACAAGTCTTGTGCCCATGACTGGGTGTACGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG201106 representing NM_008705
Red=Cloning site Green=Tags(s)

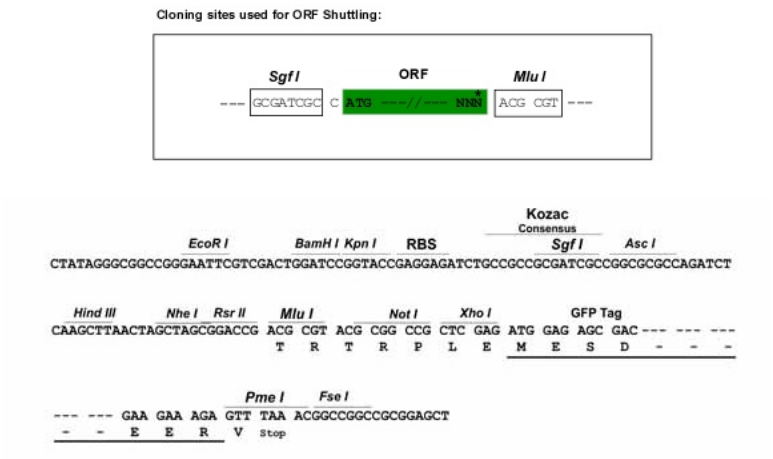
MANLERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVAMKFLRASEEHLKQHYIDLKDRPFFPGLVKYMNS
GPVVAMVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVESAEKEIHLWFKPEELI
DYKSCAHDWVYE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:

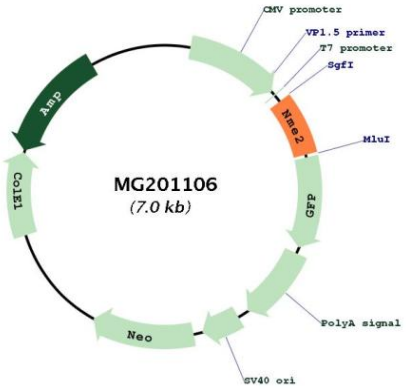


ACCN:	NM_008705
ORF Size:	456 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_008705.5, NP_032731.1
RefSeq Size:	777 bp
RefSeq ORF:	459 bp
Locus ID:	18103
UniProt ID:	Q01768

Cytogenetics: 11 D

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 (By similarity). Negatively regulates Rho activity by interacting with AKAP13/LBC. Acts as a transcriptional activator of the MYC gene; binds DNA non-specifically. Binds to both single-stranded guanine- and cytosine-rich strands within the nuclease hypersensitive element (NHE) III(1) region of the MYC gene promoter. Does not bind to duplex NHE III(1). Has G-quadruplex (G4) DNA-binding activity, which is independent of its nucleotide-binding and kinase activity. Binds both folded and unfolded G4 with similar low nanomolar affinities. Stabilizes folded G4s regardless of whether they are prefolded or not. Exhibits histidine protein kinase activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201106