

Product datasheet for **RC200680**

NME2 (NM_001018139) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NME2 (NM_001018139) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NME2
Synonyms: NDKB; NDPK-B; NDPKB; NM23-H2; NM23B; PUF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200680 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAACCTGGAGCGCACCTTCATCGCCATCAAGCCGGACGGCGTGCAGCGGGCCTGGTGGCGGAGA
 TCATCAAGCGCTTCGAGCAGAAGGGATTCCGCCTCGTGGCCATGAAGTTCCTCCGGCCTCTGAAGAACA
 CCTGAAGCAGCACTACATTGACCTGAAAGACCGACCATTCTTCCCTGGGCTGGTGAAGTACATGAACTCA
 GGGCCGGTTGTGCCATGGTCTGGGAGGGGCTGAACGTGGTGAAGACAGGCCGAGTGATGCTTGGGGAGA
 CCAATCCAGCAGATTCAAAGCCAGGCACCATTCTGTTGGGACTTCTGCATTGAGTTGGCAGGAACATCAT
 TCATGGCAGTGATTCAGTAAAAAGTGCTGAAAAAGAAATCAGCCTATGGTTTAAGCTGAAGAACTGTT
 GACTACAAGTCTTGTGCTCATGACTGGGTCTATGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200680 protein sequence
 Red=Cloning site Green=Tags(s)

MANLERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVAMKFLRASEEHLKQHYIDLKDRPFFPGLVKYMNS
 GPVVAMVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVKSAEKEISLWFKPEELV
 DYKSCAHDWVYE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

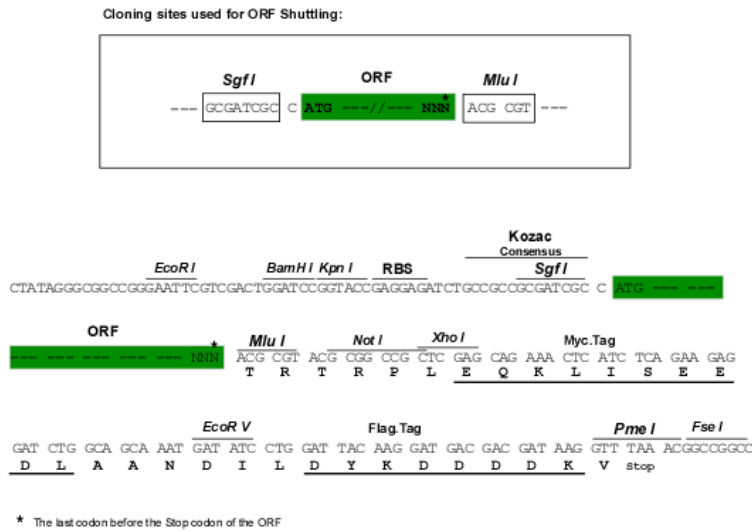
Chromatograms: https://cdn.origene.com/chromatograms/mk6399_d08.zip



[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001018139

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

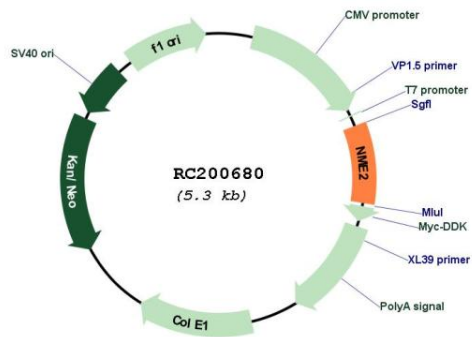
RefSeq: [NM_001018139.2](#)

RefSeq Size: 682 bp

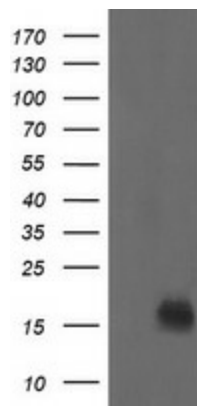
RefSeq ORF: 459 bp

Locus ID: 4831
UniProt ID: [P22392](#)
Cytogenetics: 17q21.33
Protein Families: Druggable Genome, Transcription Factors
Protein Pathways: Metabolic pathways, Purine metabolism, Pyrimidine metabolism
MW: 17.3 kDa
Gene Summary: Nucleoside diphosphate kinase (NDK) exists as a hexamer composed of 'A' (encoded by NME1) and 'B' (encoded by this gene) isoforms. Multiple alternatively spliced transcript variants have been found for this gene. Read-through transcription from the neighboring upstream gene (NME1) generates naturally-occurring transcripts (NME1-NME2) that encode a fusion protein comprised of sequence sharing identity with each individual gene product. [provided by RefSeq, Nov 2010]

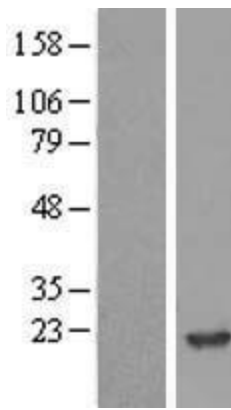
Product images:



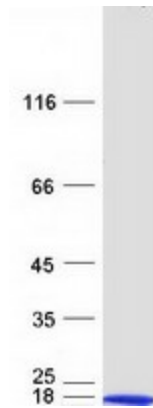
Circular map for RC200680



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NME2 (Cat# RC200680, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NME2 (Cat# [TA505574]). Positive lysates [LY422666] (100ug) and [LC422666] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY422665]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC223687] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NME2 protein (Cat# [TP300680]). The protein was produced from HEK293T cells transfected with NME2 cDNA clone (Cat# RC200680) using MegaTran 2.0 (Cat# [TT210002]).