

Product datasheet for **RC200447**

NME3 (NM_002513) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NME3 (NM_002513) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NME3
Synonyms: c371H6.2; DR-nm23; NDPK-C; NDPKC; NM23-H3; NM23H3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200447 representing NM_002513
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCTGCCTGGTGCTGACCATCTTCGCTAACCTCTTCCCCGGGCCTGCACCGCGCACACGAACGCA
CCTTCTGGCCGTGAAGCCGGACGGCGTGCAGCGCGGCTGGTGGGCGAGATTGTGCGGCGCTTCGAGAG
GAAGGGCTTCAAGTTGGTGGCGCTGAAGCTGGTGCAGGCCTCCGAGGAGCTGCTGCGTGAGCACTACGCC
GAGCTGCGTGAACGCCCTTCTACGCCGCTTGTCAAGTATATGGCCTCCGGCCGGTGGTGGCCATGG
TTTGGCAGGGCTGGACGTGGTGCACCTCGCGGGCGCTCATCGGAGCCACGAACCCGGCCGACGCCCC
GCCCGGCACCATCCGCGGGGATTCTGCATCGAGGTTGGCAAGAACCTGATTACGGCAGCGACTCGGTG
GAGAGTCCCCCGCGGATCGCTCTGTTCCGCGCAGACGAGCTCCTGCTGGGAGGACAGCGCTG
GGCACTGGCTGTATGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200447 representing NM_002513
Red=Cloning site Green=Tags(s)

MICLVLTIFANLFPAACTGAHERTFLAVKPDGVQRRVLVGEIVRRFERKGFKLVALKLVQASEELLREHYA
ELRERPFYGRLVKYMASGPVVMVWQGLDVVRTSRALIGATNPADAPPGTIRGDFCIEVGKNIHGSDSV
ESARREIALWFRADLLCWEDSAGHWLYE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4388_d04.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002513

ORF Size: 507 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_002513.2](#), [NP_002504.2](#)

RefSeq Size: 1038 bp

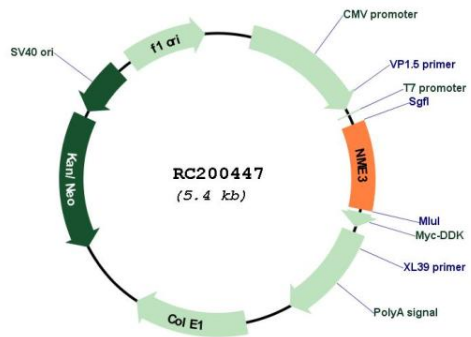
RefSeq ORF: 510 bp

Locus ID: 4832

UniProt ID: [Q13232](#)

Cytogenetics:	16p13.3
Domains:	NDK
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism, Pyrimidine metabolism
MW:	18.8 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. Probably has a role in normal hematopoiesis by inhibition of granulocyte differentiation and induction of apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC200447