

Product datasheet for **RG200447**

NME3 (NM_002513) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NME3 (NM_002513) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NME3
Synonyms: c371H6.2; DR-nm23; NDPK-C; NDPKC; NM23-H3; NM23H3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200447 representing NM_002513
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATCTGCCTGGTGCTGACCATCTTCGCTAACCTCTTCCCCGGGCCTGCACCGCGCACACGAACGCA
 CCTTCTGGCCGTGAAGCCGGACGGCGTGCAGCGCGGCTGGTGGGCGAGATTGTGCGGCGCTTCGAGAG
 GAAGGGCTTCAAGTTGGTGGCGCTGAAGCTGGTGCAGGCCTCCGAGGAGCTGCTGCGTGAGCACTACGCC
 GAGCTGCGTGAACGCCCTTCTACGCCGCTTGTCAAGTATATGGCCTCCGGCCGGTGGTGGCCATGG
 TTTGGCAGGGGCTGGACGTGGTGCACCTCGCGGGCGTCATCGGAGCCACGAACCCGGCCGACGCCCC
 GCCCGGCACCATCCGCGGGGATTCTGCATCGAGGTTGGCAAGAACCTGATTACGGCAGCGACTCGGTG
 GAGAGTGCCCGCCGAGATCGCTCTCTGGTCCGCGCAGACGAGCTCCTCTGCTGGGAGGACAGCGCTG
 GGCACTGGCTGTATGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200447 representing NM_002513
 Red=Cloning site Green=Tags(s)

MICLVLTIFANLFPAACTGAHERTFLAVKPDGVQRRVLVGEIVRRFERKGFKLVALKLVQASEELLREHYA
 ELRERPFYGRLVKYMASGPVVMVWQGLDVVRTSRALIGATNPADAPPGTIRGDFCIEVGKNIHGSDSV
 ESARREIALWFRADELLCWEDSAGHWLYE

TRTRPLE - GFP Tag - V

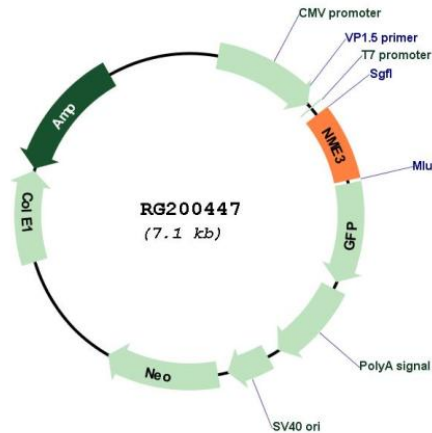
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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:	<u>NM_002513.2, NP_002504.2</u>
RefSeq Size:	1038 bp
RefSeq ORF:	510 bp
Locus ID:	4832
UniProt ID:	<u>Q13232</u>
Cytogenetics:	16p13.3
Domains:	NDK
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism, Pyrimidine metabolism
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]