

Product datasheet for **RG236275**

NME4 (NM_001286435) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NME4 (NM_001286435) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NME4
Synonyms: NDPK-D; nm23-H4; NM23H4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236275 representing NM_001286435.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCGGCTCTTCTGGCGCTCCGCGCTGCGGGGCTGCGCTGCGGCCCGGGCCCGGGCCCGAGC
CTGCTAGTGCACCACGGCTCGGGAGGGCCCTCTGGACCCGGGAGCGGACCCTGGTGGCGGTGAAGCCC
GATGGCGTGCAACGGCGGCTCGTTGGGGACGTGATCCAGCGCTTTGAGAGGCGGGCTTACGCTGGTG
GGGATGAAGATGCTGCAGGCACCAGAGAGCGTCTTGGCAGCACTACCAGGACCTGCGGAGGAAGCCC
TTCTACCCTGCCCTCATCCGCTACATGAGCTCTGGCCTGTGGTGGCCATGGTCTGGGAAGGTACAAT
GTCGTCCGCGCCTCGAGGGCCATGATTGGACACACCGACTCGGCTGAGGCTGCCCAAGCAACATAAGG
GGTGACTTCAGCGTCCACATCAGCAGTCACAGGCTTGCTCCCCTAGACAGAGGGCAACGGGAGCAGCAG
ATGGTCCCTGGGATTCTCAGGGTGCACATGAAGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236275
Blue=ORF Red=Cloning site Green=Tag(s)

```
MGGLFWRSA LRGLRCP RAPGPSLLVRHSGGSPWTRERTLVAVKPDGVQRRLVGDVIQRFERRGFTLV
GMKMLQAPESVLA EHYQDLRRKPFYPALIRYMSSGPVVMVWEGYNNVVRASRAMIGHTDSAEAAPGTR
GDFSVHISSHRLAPLDRGQREQQMVPGIPQGAHEA
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_001286435

ORF Size: 519 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).

RefSeq: [NM_001286435.2](#)

RefSeq Size: 1169 bp

RefSeq ORF: 522 bp

Locus ID: 4833

UniProt ID: [O00746](#)

Cytogenetics: 16p13.3

Protein Families: Druggable Genome

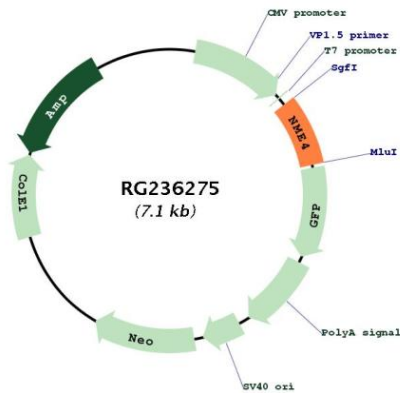
Protein Pathways: Metabolic pathways, Purine metabolism, Pyrimidine metabolism

MW: 19.6 kDa

Gene Summary:

The nucleoside diphosphate (NDP) kinases (EC 2.7.4.6) are ubiquitous enzymes that catalyze transfer of gamma-phosphates, via a phosphohistidine intermediate, between nucleoside and dioxynucleoside tri- and diphosphates. The enzymes are products of the nm23 gene family, which includes NME4 (Milon et al., 1997 [PubMed 9099850]).[supplied by OMIM, May 2008]

Product images:



Circular map for RG236275