

Product datasheet for RC202603

NME4 (NM_005009) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NME4 (NM_005009) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: NME4

Synonyms: NDPK-D; nm23-H4; NM23H4

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC202603 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGCGGCCTCTTCTGGCGCTCCGCGCTGCGGGGGCTGCGCTGCGCCCGGGCCCCGGGCCCGGGCCCGAGCC
TGCTAGTGCGCCACGGCTCGGAAGGGCCCTCCTGGACCCGGGACCCTGGTGGCGTGAAGCCCGA
TGGCGTGCAACGGCGCTCGTTGGGGACCGTGATCCAGCGCTTTGAGAGGCGGGGCTTCACGCTGGTGGGG
ATGAAGATGCTGCAGGCACCAGAGAGCGTCCTTGCCGAGCACTACCAGGACCTGCGGAGGAAGCCCTTCT
ACCCTGCCCTCATCCGCTACATGAGCTCTGGGCCTGTGGTGGCCATGGTCTGGGAAGGGTACAATGTCGT
CCGCGCCTCGAGGGCCATGATTGGACACACCGACTCGGCTGAGGCTGCCCCAGGAACCATAAGGGGTGAC
TTCAGCGTCCACATCAGCAGGAATGTCATCCACGCCAGCGACCTCCGTGGAGGGGGCCCAGCAGCAGCATCCACCCAGC

C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAG**GTTTAA**

Protein Sequence: >RC202603 protein sequence

Red=Cloning site Green=Tags(s)

MGGLFWRSALRGLRCGPRAPGPSLLVRHGSGGPSWTRERTLVAVKPDGVQRRLVGDVIQRFERRGFTLVG MKMLQAPESVLAEHYQDLRRKPFYPALIRYMSSGPVVAMVWEGYNVVRASRAMIGHTDSAEAAPGTIRGD

FSVHISRNVIHASDSVEGAQREIQLWFQSSELVSWADGGQHSSIHPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6144 h01.zip

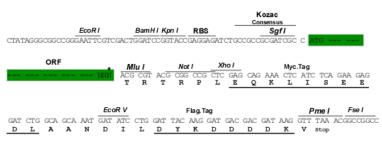
Sgfl-Mlul

Restriction Sites:

. . . .

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_005009

ORF Size: 561 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 005009.3

RefSeq Size: 1059 bp RefSeq ORF: 564 bp Locus ID: 4833



UniProt ID: O00746

Cytogenetics: 16p13.3

Domains: NDK

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism, Pyrimidine metabolism

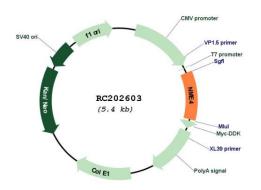
MW: 20.7 kDa

Gene Summary: The nucleoside diphosphate (NDP) kinases (EC 2.7.4.6) are ubiquitous enzymes that catalyze

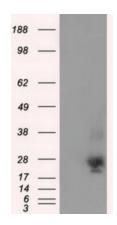
transfer of gamma-phosphates, via a phosphohistidine intermediate, between nucleoside and dioxynucleoside tri- and diphosphates. The enzymes are products of the nm23 gene family, which includes NME4 (Milon et al., 1997 [PubMed 9099850]).[supplied by OMIM, May

2008]

Product images:

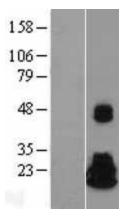


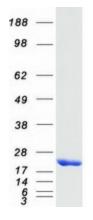
Circular map for RC202603



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NME4 (Cat# RC202603, 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-NME4(Cat# [TA501110]). Positive lysates [LY401559] (100ug) and [LC401559] (20ug) can be purchased separately from OriGene.







Western blot validation of overexpression lysate (Cat# [LY401559]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202603 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified NME4 protein (Cat# [TP302603]). The protein was produced from HEK293T cells transfected with NME4 cDNA clone (Cat# RC202603) using MegaTran 2.0 (Cat# [TT210002]).