

Product datasheet for **SC108805**

NME2 (NM_002512) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NME2 (NM_002512) Human Untagged Clone
Tag:	Tag Free
Symbol:	NME2
Synonyms:	NDKB; NDPK-B; NDPKB; NM23-H2; NM23B; PUF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002512, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAACCTGGAGCGCACCTTCATCGCCATCAAGCCGACGGCGTGCAGCGCGGCTGGTGGGCGAGA
TCATCAAGCGCTTCGAGCAGAAGGGATTCCGCCTCGTGGCCATGAAGTTCCTCCGGGCTCTGAAGAACA
CCTGAAGCAGCACTACATTGACCTGAAAGACCGACCATTCTTCCCTGGGCTGGTGAAGTACATGAACTCA
GGGCCGGTTGTGGCCATGGTCTGGGAGGGGCTGAACGTGGTGAAGACAGGCCGAGTGATGCTTGGGAGA
CCAATCCAGCAGATTCAAAGCCAGGCACCATTCTGGGGACTTCTGCATTGAGTTGGCAGGAACATCAT
TCATGGCAGTGATTCAGTAAAAAGTGCTGAAAAAGAAATCAGCCTATGGTTTAAGCCTGAAGAACTGTT
GACTACAAGTCTTGTGCTCATGACTGGGTCTATGAATAA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002512 unedited
GCACGAGGCCCGGGTGTGGTGGTCGCTCCAGCTCTCTGCTCTCCCAGCGCAGCGCCGCCG
CCCGGCCCTCCAGTTCCTCCGGACCATGGCCAACCTGGAGCGCACCTTCATCGCCATCAA
GCCGGACGGCGTGCAGCGCGCCTGGTGGGCGAGATCATCAAGCGCTTCGAGCAGAAGGG
ATTCCGCCTCGTGGCCATGAAGTTCCTCCGGGCTCTGAAGAACACCTGAAGCAGCACTA
CATTGACCTGAAAGACCGACCATTCTTCCCTGGGCTGGTGAAGTACATGAACTCAGGGCC
GGTTGTGGCCATGGTCTGGGAGGGGCTGAACGTGGTGAAGACAGGCCGAGTGATGCTTGG
GGAGACCAATCCAGCAGATTCAAAGCCAGGCACCATTCTGGGGACTTCTGCATTGAGGT
TGGCAGGAACATCATTATGGCAGTGATTCAGTAAAAAGTGCTGAAAAAGAAATCAGCCT
ATGGTTTAAGCCTGAAGAAGTGGTTGACTACAAGTCTTGTGCTCATGACTGGGTCTATGA
ATAAGAGGTGGACACAACAGCAGTCTCCTTCAGCACGGCGTGGTGTGTCCTGGACACAG
CTCTTCATTCCATTGACTTAGAGGCAACAGGATTGATCATTCTTTTATAGAGCATATTTG
CCAATAAAGCTTTTGGGAAG
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002512 unedited GCTTGCAAGCTTCTGGTTTATTGCTCTATAAAGNATGATCAATCCTGTTGCCTCTAAGTC AATGGAATGAAGAGCTGTGTCCAGGGACACACCACGCCGTGCTGAAGGAGACTGCTGTTG TGTCCACCTCTTATTCATAGACCCAGTCATGAGCACAAGACTTGTAGTCAACCAGTTCTT CAGGCTTAAACCATAGGCTGATTTCTTTTTCAGCACTTTTTACTGAATCACTGCCATGAA TGATGTTCTGCAACCTGAATGCAGAAGTCCCCACGAATGGTGCCTGGCTTTGAATCTG CTGGATTGGTCTCCCCAAGCATCACTCGGCCTGTCTTCACCACGTTCCAGCCCCTCCAGA CCATGGCCACAACCGGCCCTGAGTTCATGTACTTCACCAGCCAGGGAAGAAATGGTCGGT CTTTCAGGTCAATGTAGTGCTGCTTCAAGTGTCTTTCAGAGGCCCGGAGGAACTTCATGG CCACGAGGCGGAATCCCTTCTGCTCGAAGCGCTTGATGATCTCGCCACCAGGCCGCGCT GCACGCCGTCCGGCTTGATGGCGATGAAGGTGCGCTCCAGGTTGGCCATGGTCCGGGAAG CTGGAGGGGCCGGCGCGCGCTGCGCTGGGAGAGCAGAGAGCTGGAGCGACCACCACA CCCGGGCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGAC GGTTCACTAAACGAGCTCTGCTTATATAGACCTNCCACCGTACACGCCTACCGCCCATTT GCGTCAACGGGGGGGGTTATTACGACATTTTGGGAAAGTCCCGTTGATTTTGGTGCCAA ACATACTCCCATGACGTATGGGGTGGAGACTGGAAATCCCGGGAGTAAACCGTTNACC CCATGTGTCTGCCAAACGCTCACATGTATAGCGAGACTATC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002512
Insert Size:	840 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_002512.2 , NP_002503.1
RefSeq Size:	822 bp

RefSeq ORF:	459 bp
Locus ID:	4831
UniProt ID:	P22392
Cytogenetics:	17q21.33
Domains:	NDK
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Metabolic pathways, Purine metabolism, Pyrimidine metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (a). Variants 1-4 encode the same isoform.</p>