

Product datasheet for RC201731

NM23A (NME1) (NM_000269) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: NM23A (NME1) (NM 000269) Human Tagged ORF Clone Tag: Myc-DDK Symbol: NM23A Synonyms: AWD; GAAD; NB; NBS; NDKA; NDPK-A; NDPKA; NM23; NM23-H1 Mammalian Cell Neomycin Selection: Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) **ORF** Nucleotide >RC201731 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCAACTGTGAGCGTACCTTCATTGCGATCAAACCAGATGGGGTCCAGCGGGGTCTTGTGGGAGAGA TTATCAAGCGTTTTGAGCAGAAAGGATTCCGCCTTGTTGGTCTGAAATTCATGCAAGCTTCCGAAGATCT TCTCAAGGAACACTACGTTGACCTGAAGGACCGTCCATTCTTTGCCGGCCTGGTGAAATACATGCACTCA GGGCCGGTAGTTGCCATGGTCTGGGAGGGGCTGAATGTGGTGAAGACGGGCCGAGTCATGCTCGGGGAGA CCAACCCTGCAGACTCCAAGCCTGGGACCATCCGTGGAGACTTCTGCATACAAGTTGGCAGGAACATTAT ACATGGCAGTGATTCTGTGGAGAGGTGCAGAGAGAGGAGATCGGCTTGTGGTTTCACCCTGAGGAACTGGTA GATTACACGAGCTGTGCTCAGAACTGGATCTATGAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA **Protein Sequence:** >RC201731 protein sequence Red=Cloning site Green=Tags(s) MANCERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVGLKFMQASEDLLKEHYVDLKDRPFFAGLVKYMHS GPVVAMVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVESAEKEIGLWFHPEELV DYTSCAQNWIYE TRTRPLEQKLISEEDLAANDILDYKDDDDKV https://cdn.origene.com/chromatograms/mk6092 g08.zip Chromatograms:



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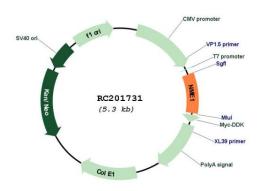
ORIGENE NM23A (NME1) (NM_000269) Human Tagged ORF Clone – RC201731

Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf I ORF Miu I GCGATCGC C ATG NIX ACG CGT
	$\frac{EcoRI}{EcoRI} = \frac{BamHI Kpn I}{BamHI Kpn I} = \frac{Kozac}{Consensus}$ COnsensus CTATAGGGCGGCCGGAATTCGTCGGCTGGCGGTACCGGGTACCGGGGGGGG
	GAT CTG GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGCCCGGCC D L A A N D I L D Y K D D D K V stop
	* The last codon before the Stop codon of the ORF
CCN:	NM_000269
RF Size:	456 bp
TI 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. <u>More info</u>
TI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
omponents:	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).
econstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
lote:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
efSeq:	<u>NM 000269.3</u>
efSeq Size:	811 bp
efSeq ORF:	459 bp

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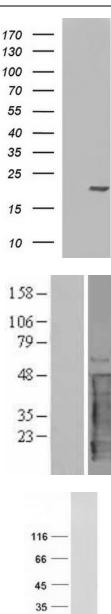
	A (NME1) (NM_000269) Human Tagged ORF Clone – RC201731
Locus ID:	4830
UniProt ID:	<u>P15531</u>
Cytogenetics:	17q21.33
Domains:	NDK
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Metabolic pathways, Purine metabolism, Pyrimidine metabolism
MW:	17.1 kDa
Gene Summary:	This gene (NME1) was identified because of its reduced mRNA transcript levels in highly metastatic cells. Nucleoside diphosphate kinase (NDK) exists as a hexamer composed of 'A' (encoded by this gene) and 'B' (encoded by NME2) isoforms. Mutations in this gene have been identified in aggressive neuroblastomas. Two transcript variants encoding different isoforms have been found for this gene. Co-transcription of this gene and the neighboring downstream gene (NME2) generates naturally-occurring transcripts (NME1-NME2), which encodes a fusion protein comprised of sequence sharing identity with each individual gene product. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC201731

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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NME1 (Cat# RC201731, 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-NME1 (Cat# [TA590015]). Positive lysates [LY400102] (100ug) and [LC400102] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY400102]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201731 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified NME1 protein (Cat# [TP301731]). The protein was produced from HEK293T cells transfected with NME1 cDNA clone (Cat# RC201731) using MegaTran 2.0 (Cat# [TT210002]).

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