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Product datasheet for SC321060

Nucleoside Diphosphate Kinase 7 (NME7) (NM_197972) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nucleoside Diphosphate Kinase 7 (NME7) (NM_197972) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nucleoside Diphosphate Kinase 7
Synonyms:	CFAP67; MN23H7; NDK 7; NDK7; nm23-H7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_197972.1
GCCTGAGTAACCGTATGATGGTGGTGGTGGTGGTGTCTTCCTGTCTCAACGATACCTATT
TTCTAGTGCTGAGATCCTGAGACAATGAATCATAGTGAAAGATTCGTTTTCATTGCAGAG
TGGTATGATCCAAATGCTTCACTTCTTCGACGTTATGAGCTTTTATTTTACCCAGGGGAT
GGATCTGTTGAAATGCATGATGTAAAGAATCATCGCACCTTTTTAAAGCGGACCAAATAT
GATAACCTGCACTTGGAAGATTTATTTATAGGCAACAAAGTGAATGTCTTCTCTCGACAA
CTGGTATTAATTGACTATGGGGATCAATATACAGCTCGCCAGCTGGGCAGTAGGAAAGAA
AAAACGCTAGCCCTAATTAAACCAGATGCAATATCAAAGGCTGGAGAAATAATTGAAATA
ATAAACAAAGCTGGATTTACTATAACCAAACTCAAAATGATGATGCTTTCAAGGAAAGAA
GCATTGGATTTTCATGTAGATCACCAGTCAAGACCCTTTTTCAATGAGCTGATCCAGTTT
ATTACAACTGGTCCTATTATTGCCATGGAGATTTTAAGAGATGATGCTATATGTGAATGG
AAAAGACTGCTGGGACCTGCAAACTCTGGAGTGGCACGCACAGATGCTTCTGAAAGCATT
AGAGCCCTCTTTGGAACAGATGGCATAAGAAATGCAGCGCATGGCCCTGATTCTTTTGCT
TCTGCGGCCAGAGAAATGGAGTTGTTTTTTCCTTCAAGTGGAGGTTGTGGGCCGGCAAAC
ACTGCTAAATTTACTAATTGTACCTGTTGCATTGTTAAACCCCATGCTGTCAGTGAAGGA
CTGTTGGGAAAGATCCTGATGGCTATCCGAGATGCAGGTTTTGAAATCTCAGCTATGCAG
ATGTTCAATATGGATCGGGTTAATGTTGAGGAATTCTATGAAGTTTATAAAGGAGTAGTG
ACCGAATATCATGACATGGTGACAGAAATGTATTCTGGCCCTTGTGTAGCAATGGAGATT
CAACAGAATAATGCTACAAAGACATTTCGAGAATTTTGTGGACCTGCTGATCCTGAAATT
GCCCGGCATTTACGCCCTGGAACTCTCAGAGCAATCTTTGGTAAAACTAAGATCCAGAAT
GCTGTTCACTGTACTGATCTGCCAGAGGATGGCCTATTAGAGGTTCAATACTTCTTCAAG
ATCTTGGATAATTAGTGGTGTGGAAAGTAAAGAAGTCACAGGTTGGGACATTTAGACAAG
AGTGAATCACACACGAGGAATGTGTTCATTCTTTTATTGTCCGTTGTTTTAACCTGACTG
AATACAAGATCAACAAGAGCACTGTACTCCTGGCAATTATTACATATGTTAGAACATGGA
TTTTGCACTGTAGACAACATTTAACACCAGTCTATGGGGTACTGCATTGCTTTTTATAAA
GTTCAAAATAAAGATTTATTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	Please inquire
ACCN:	NM_197972
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_197972.1, NP_932076.1
RefSeq Size:	1615 bp
RefSeq ORF:	1023 bp
Locus ID:	29922
UniProt ID:	Q9Y5B8
Cytogenetics:	1q24.2
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism, Pyrimidine metabolism
Gene Summary:	This gene encodes a member of the non-metastatic expressed family of nucleoside diphosphate kinases. Members of this family are enzymes that catalyzes phosphate transfer from nucleoside triphosphates to nucleoside diphosphates. This protein contains two kinase domains, one of which is involved in autophosphorylation and the other may be inactive. This protein localizes to the centrosome and functions as a component of the gamma-tubulin ring complex which plays a role in microtubule organization. Mutations in this gene may be associated with venous thromboembolism. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream AUG, compared to variant 1. The encoded protein (isoform b) is shorter than isoform a.