

## Product datasheet for **SC107730**

### 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:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_197972, the custom clone sequence may differ by one or more nucleotides

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ATGCATGATGTAAGAATCATCGCACCTTTTTAAAGCGGACCAAATATGATAACCTGCACTTGAAGATT
TATTTATAGGCAACAAAGTGAATGTCTTTCTCGACAACCTGGTATTAATTGACTATGGGGATCAATATAC
AGCTCGCCAGCTGGGCAGTAGGAAAGAAAAACGCTAGCCCTAATTAACCAGATGCAATATCAAAGGCT
GGAGAAAATAATTGAAATAATAACAAAGCTGGATTTACTATAACCAAACCTCAAAATGATGATGCTTTCAA
GGAAAGAAGCATTGGATTTTCATGTAGATCACCAGTCAAGACCCTTTTCAATGAGCTGATCCAGTTTAT
TACAACCTGGTCTATTATTGCCATGGAGATTTTAAGAGATGATGCTATATGTGAATGGAAAAGACTGCTG
GGACCTGCAAACCTCTGGAGTGGCAGCACAGATGCTTCTGAAAGCATTAGAGCCCTCTTTGGAACAGATG
GCATAAGAAATGCAGCGCATGGCCCTGATCTTTTGCTTCTGCGCCAGAGAAATGGAGTTGTTTTTCC
TTCAAGTGGAGGTTGTGGCCGGCAAACACTGCTAAATTTACTAATTGTACCTGTTGCATTGTTAAACCC
CATGCTGTGAGTGAAGGACTGTTGGGAAAGATCCTGATGGCTATCCGAGATGCAGGTTTTGAAATCTCAG
CTATGCAGATGTTCAATATGGATCGGGTTAATGTTGAGGAATTCTATGAAGTTTATAAAGGAGTAGTGAC
CGAATATCATGACATGGTGACAGAAATGTATTCTGGCCCTTGTGTAGCAATGGAGATTCAACAGAATAAT
GCTACAAAGACATTTGAGAATTTGTGGACCTGCTGATCCTGAAATTGCCCGGCATTTACGCCCTGGAA
CTCTCAGAGCAATCTTTGGTAAAACCTAAGATCCAGAATGCTGTTCACTGTACTGATCTGCCAGAGGATGG
CCTATTAGAGGTTCAATACTTCTCAAGATCTTGGATAATTAG
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_197972 unedited TACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGAGACATGAATCATAGTAAAAGAT TCGTTTTTCATTGCAGAGTGGTATGATCCAAATGCTTCACTTCTTCGACGTTATGAGCTTT TATTTTACCCAGGGGATGGATCTGTTGAAATGCATGATGTAAAGAATCATCGCACCTTTT TAAAGCGGACCAAATATGATAACCTGCACCTTGGAAAGATTATTTATAGGCAACAAAGTGA ATGTCTTTTCTCGACAACCTGGTATTAATTGACTATGGGGATCAATATACAGCTCGCCAGC TGGGCAGTAGGAAAGAAAAACGCTAGCCCTAATTAACCAGATGCAATATCAAAGGCTG GAGAAATAATTGAAATAATAAACAAAGCTGGATTTACTATAACCAAACCTAAAATGATGA TGCTTTCAAGGAAAGAAGCATTGGATTTTCATGTAGATCACCAAGTCAAGACCTTTTTTCA ATGAGCTGATCCAGTTTATTACAACCTGGTCTATTATTGCCATGGAGATTTTAAGAGATG ATGCTATATGTGAATGGAAAAGACTGCTGGGACCTGCAAACCTCTGGAGTGGCACGCACAG ATGCTTCTGAAAGCATTAGAGCCCTCTNTGGAACAGATGGCATAAGAAATGCAGCGCATG GCCCTGATTCTTTTGCTTCTGCGCCAGAGAAGGGAGTTGTTTTTCTTCAAGTGGAGTTG TGGCCNGCAACCTGCTAATTAATGTACTGTGCATGTTAACCCATGCTGCATGAAGA CTGTGAAAGATCTAGGCTATCAAAGCAGTTTGAATCTACTTGCATGTATATGAATCGG TTATGTGAGGATCCTTGAGTATAAGAGTNTGCGATTCTGACTGGACAAATGTTTGGCCTT GGTCATGGATCACGAATGTCAAACCTCAGATTTGCCCTGACTAATGCGCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_197972
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_197972.1</a></u> , <u><a href="#">NP_932076.1</a></u>
<b>RefSeq Size:</b>	1615 bp
<b>RefSeq ORF:</b>	1023 bp
<b>Locus ID:</b>	29922
<b>UniProt ID:</b>	<u><a href="#">Q9Y5B8</a></u>
<b>Cytogenetics:</b>	1q24.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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.