

Product datasheet for SC119688

DCK (NM_000788) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCK (NM_000788) Human Untagged Clone
Tag:	Tag Free
Symbol:	DCK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119688 sequence for NM_000788 edited (data generated by NextGen Sequencing)

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ATGGCCACCCCGCCAAGAGAAGCTGCCCGTCTTTCTCAGCCAGCTCTGAGGGGACCCGC
ATCAAGAAAATCTCCATCGAAGGGAACATCGCTGCAGGGAAGTCAACATTTGTGAATATC
CTTAAACAATTGTGTGAAGATTGGGAAGTGGTTCCTGAACCTGTTGCCAGATGGTGAAT
GTTCAAAGTACTCAAGATGAATTTGAGGAACTTACAATGTCTCAGAAAAATGGTGGGAAT
GTTCTTCAGATGATGTATGAGAAACCTGAACGATGGTCTTTTACCTTCCAACATATGCC
TGTCTCAGTCGAATAAGAGCTCAGCTTGCCTCTCTGAATGGCAAGCTCAAAGATGCAGAG
AAACCTGTATTATTTTTGAACGATCTGTGTATAGTGACAGGTATATTTTTGCATCTAAT
TTGTATGAATCTGAATGCATGAATGAGACAGAGTGGACAATTTATCAAGACTGGCATGAC
TGGATGAATAACCAATTTGGCCAAAGCCTTGAATTGGATGGAATCATTATCTTCAAGCC
ACTCCAGAGACATGCTTACATAGAATATATTTACGGGGAAGAAAATGAAGAGCAAGGCATT
CCTCTTGAATATTTAGAGAAGCTTCATTATAAACATGAAAGCTGGCTCCTGCATAGGACA
CTGAAAACCAACTTCGATTATCTTCAAGAGGTGCCTATCTTAACACTGGATGTTAATGAA
GACTTTAAAGACAAATATGAAAGTCTGGTTGAAAAGGTCAAAGAGTTTTTGGTACTTTG
TGA
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Clone variation with respect to NM_000788.2



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000788 unedited
 GTTCAAATTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACCGAGGCTCTGGNGC
 CGCCACAAAACAAAGGAATGGCCACCCCGCCAAAAGAAGCTGCCCGTCTTTCTCAGCCA
 GCTCTGAGGGGACCCGCATCAAGAAAATCTCCATCGAAGGGAACATCGCTGCAGGGAAGT
 CAACATTTGTGAATATCCTTAAACAATTGTGTGAAGATTGGGAAGTGGTTCCTGAACCTG
 TTGCCAGATGGTGAATGTTCAAAGTACTCAAGATGAATTTGAGGAACTTACAATGTCTC
 AGAAAAATGGTGGGAATGTTCTTCAGATGATGTATGAGAAACCTGAACGATGGTCTTTTA
 CCTTCAAACATATGCCTGTCTCAGTCGAATAAGAGCTCAGCTTGCCCTCTGAATGGCA
 AGCTCAAAGATGCAGAGAAACCTGTATTATTTTTTTGAACGATCTGTATAGTGACAGGT
 ATATTTTTGCATCTAATTTGTATGAATCTGAATGCATGAATGAGACAGAGTGGACAATTT
 ATCAAGACTGGCATGACTGGATGAATAACCAATTTGGCCAAAGCCTTGAATTGGATGGAA
 TCATTTATCTTCAAGCCACTCCAGAGACATGCTTACATAGAATATATTTACGNGAAGAA
 ATGAAGAGCAAGGCATTCCTCTTGAATATTTAGAGAAGCTTCATTATAACATGAAAGCT
 GGCTCCTGCATAGGACTGAAAACCAACTTCGATTATCTTCAAGAGGTGCCTATCTTAA
 CACTGGATGTTAATGAAGACTCTAAAGACCAATATGAAAGTCTGTNTGAAAGTGANAGA
 GTTNTTGAAGTACTTTGTGATCTTGCTGAAGACTACAGGCAGCCAATGGTTCAGATACT
 AGCTTGTGATCTTCGTAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000788 unedited
 ACGCCGCGCTTTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTAGTCATGACAAATAAAT
 AATAAATTTTTATTAGCGTCTTTTCAATCTACAAATTTAAAAGTCATTATACATTTTT
 AAAGGTTACTAAAAATCACTGAAATATGTCTCCACTTAAAATGGAATCAAAGTAATTTAT
 ACAATTTTCACCTTAAATATTCATAATTTATTTAAAAGTAGAATAAATTTAATTCTAAA
 ATGATTATTACATCTTTTTAGAACTGAAATTACATTTCAATGAGTGTAGCTCCACTGTAG
 TTCATAAGGTTTATACTTAAGAAATATTTAATTAACAAATTAATTTATACCAAACAAAA
 CAAACTAAAAAATGCATACGTATAATGAGACAGTTTATGTATGGTAATTACAGATTTGA
 AATTAAGTCTCCTTTGCAAAGATCAGTGCCTGGACTGGTTAATCCACTAAATTATCAT
 CTTTGAATAAGAAACAAAAACAAAAATGACTTGGAAAGAAAAATAGTAGTTTAAAAGTG
 AAAATGACTCTTCCCCTTATTTTAAAATACATAAAATTTCTAAAACGTAATGAAAG
 GTTTAATACACAGGAAAAACACTGCACACCTTAACTAAACCAACTAGAAAGAAAAATAT
 TTATATACAGACTAAAATGAGTCCATTCCTTTATTTTACAAATATCCACATAAAATGCT
 TAAAGAAAAATAGTTAAGTGTGGCTCATTAAATTAATGGAATGCTTTCTACGCCTCTGGC
 TTCACTAAATTTATTTCTATTAACCAAAAATAATGCTTTCAAGGATATTTCCATATAA
 GAGCACTTCTATTTTTATGCACCATTATGGCCGAAAAAAGAAAAACTTATAAACGCG
 AACCTTCCCAGCGCAAGCCAACCTTCAACGCAAAAAGTATCTACCGGTGTTGCACAAAA
 AAAGGTTTGG

Restriction Sites:

ECoRI-NOT

ACCN:

NM_000788

Insert Size:

2400 bp

OTI Disclaimer: 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.

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](#)

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_000788.1](#), [NP_000779.1](#)

RefSeq Size: 2460 bp

RefSeq ORF: 783 bp

Locus ID: 1633

UniProt ID: [P27707](#)

Cytogenetics: 4q13.3

Domains: dNK

Protein Families: Druggable Genome

Protein Pathways: Purine metabolism, Pyrimidine metabolism

Gene Summary: Deoxycytidine kinase (DCK) is required for the phosphorylation of several deoxyribonucleosides and their nucleoside analogs. Deficiency of DCK is associated with resistance to antiviral and anticancer chemotherapeutic agents. Conversely, increased deoxycytidine kinase activity is associated with increased activation of these compounds to cytotoxic nucleoside triphosphate derivatives. DCK is clinically important because of its relationship to drug resistance and sensitivity. [provided by RefSeq, Jul 2008]