

## Product datasheet for **SC324233**

### **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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000788.1  
 CGCAGGCCCGCCAGTGTCTCAGCTGCCTCCGCGCGCCAAAGTCAAACCCCGACACCCGC  
 CGGCGGGCCGGTGTGAGTCACTAGCTGACCCGGCAGGTCAGGATCTGGCTTAGCGGCGCCG  
 CGAGCTCCAGTGCAGCGCACCCGTGGCCGCTCCAGCCCTCTTTGCCGGACGAGCTGTG  
 GCCGCCACAAGACTAAGGAATGGCCACCCCGCCCAAGAGAAGTGCCCGTCTTTCTCAGC  
 CAGCTCTGAGGGGACCCGCATCAAGAAAATCTCCATCGAAGGGAACATCGCTGCAGGGAA  
 GTCAACATTTGTGAATATCCTTAAACAATTGTGTGAAGATTGGGAAGTGGTTCCTGAACC  
 GTTTGCCAGATGGTGAATGTTCAAAGTACTCAAGATGAATTTGAGGAACTTACAATGTC  
 TCAGAAAATGGTGGGAATGTTCTTCCAGATGATGATGAGAAAACCTGAACGATGGTCTTT  
 TACCTTCAAACATATGCTTGTCTCAGTCAATAAGAGCTCAGCTTGCCTCTCTGAATGG  
 CAAGCTCAAAGATGCAGAGAAACCTGTATTATTTTTTGAACGATCTGTGTATAGTGACAG  
 GTATATTTTTGCATCTAATTTGTATGAATCTGAATGCATGAATGAGACAGAGTGGACAAT  
 TTATCAAGACTGGCATGACTGGATGAATAACCAATTTGGCCAAAGCCTTGAATTGGATGG  
 AATCATTTATCTTCAAGCCACTCCAGAGACATGCTTACATAGAATATATTTACGGGGAAG  
 AAATGAAGAGCAAGGCATTCCTCTTGAATATTTAGAGAAGCTTATTATAAACATGAAAG  
 CTGGCTCCTGCATAGGACTGAAAACCACTTCGATTATCTTCAAGAGGTGCCTATCTT  
 AACACTGGATGTTAATGAAGACTTTAAAGACAAATATGAAAGTCTGGTTGAAAAGGTCAA  
 AGAGTTTTTGTGACTTTGTGATCTTGCTGAAGACTACAGGCAGCCAAATGGTTCAGAT  
 ACTTCAGCTTTGTGATCTTCGTAACCTTCATATTAATAAAGTTTCTTTAGAAAACCCAA  
 GTTTTTAATCGTTTTTGTTTAAGGAAAAAGATTTTTAAATGAATCTTATGCAAAACT  
 TTTTGATCAGTTTCTTTCTTTTGTTTTTTTTTAAAAAGACATTTAAAGACAAAGACA  
 CTATTTCTCATAGCAGGAAATGTAGAGGTAGATGGTCCAGTATCAGCATAGTGACTAAA  
 TTACATTATAAAGATCCAGCTTCCTTCTGTCTTCCCTCTTTTGTCTTCCCTCAGCAGG  
 TTGGCTTTTTTCCCTGGTGCCTCTCACTTCGTTGGTGACCAGTTTCTTAAACTGAAAGCT  
 TTAATGTTACATAGTAAATGGTAGTGTGCTGTGTAATTAGTGTACCTATTAAGGTT  
 GCAAAGTGAATTAAGGAATCCCTAGAATAAGGATTCTGAAGTTTTATTTAAATTTATT  
 ATCTTCTTAACAGTTTAGTCCCACCTCTTACTTCTGCCTCAGTCTGCTTCTCTACTGT  
 CTGGATTAATTAGGCAGCCTGCTATAAAGTTAAAGTCACACATTTCTATTTTGCAAAAC  
 TGTGATTAATGCTTTGTAGTTTGTCTTTGCTTTGTAGGGTCTGCTTTTAAGTTTTT  
 CTCTTTTTCAGACAAATTAAGTAAAAATGATATTGCTCTATATGTAATATATCCTGAA  
 AGCATTATTTTTTGTGAATAGGAAATAAAATTAATGAAGACAGAGGCTAGAAAGCATCC  
 ATTAATTAATGAGACACACTTAACTACTTATCTCTAAACCATCTATGTGAATATTTGTAA  
 AAATAATGAATGGACTCATCTTAGTTCTGTATATAAATATATTTTCTTTCTAGTTTGT  
 AGTTAAGGTGTGAGTGTTTTTCTGTGTATTAACCTTTCCATTTTACGTTTTAGAAAA  
 TTTTATGTATTTTAAATAAGGGGAAGAGTCATTTTCACTTTTAACTACTATTTTTCTT  
 TCCAAGTCATTTTTGTTTTTGGTTTCTTATTCAAAGATGATAATTTAGTGGATTAACCAG  
 TCCAGACGCATGATCTTTGCAAAGGAGACTTAATTTCAAATCTGTAATTACCATACATA  
 AACTGTCTCATTATAAGTATGCATTTTTTGTGTTTGTGTTTGGTATAAATTAATTT  
 GTTAATTAATATTTCTTAAAGTATAAACCTTATGAACTACAGTGGAGCTACACTCATTGA  
 AATGTAATTTTCAAGTTCTAAAAAGATGTAATAATCATTTTAGAAATTAATTTTATTCTACT  
 TTTAAATAAATTAATGAATATAAAGGTGAAAATTTGTATAAATTAATTTGATTCCATTTTA  
 AGTGGAGACATATTTCAAGTATTTTGTAACTTTAAAAATGTAATGACTTTTAAAA  
 TTTGTAGAATGAAAAGACGCTAATAAAAAATTTATTTTATTTGTCATGACTCAAAAAA  
 AAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_000788

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>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.</p>
<b>Components:</b>	<p>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).</p>
<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_000788.1, NP_000779.1</a></u>
<b>RefSeq Size:</b>	2460 bp
<b>RefSeq ORF:</b>	783 bp
<b>Locus ID:</b>	1633
<b>UniProt ID:</b>	<u><a href="#">P27707</a></u>
<b>Cytogenetics:</b>	4q13.3
<b>Domains:</b>	dNK
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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]