

## Product datasheet for **RG210767**

### **DCK (NM\_000788) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DCK (NM_000788) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DCK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210767 representing NM_000788 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACCCCGCCAAGAGAAGCTGCCCGTCTTTCTCAGCCAGCTCTGAGGGGACCCGCATCAAGAAAA  
TCTCCATCGAAGGGAACATCGTGCAGGGAAAGTCAACATTTGTGAATATCCTTAAACAATTGTGTGAAGA  
TTGGGAAGTGGTTCCTGAACCTGTTGCCAGATGGTCAATGTTCAAAGTACTCAAGATGAATTTGAGGAA  
CTTACAATGTCTCAGAAAAATGGTGGGAATGTTCTTCAGATGATGTATGAGAACTGAACGATGGTCTT  
TTACCTTCCAAACATATGCTTGTCTCAGTCAATAGAGCTCAGCTTGCCTCTCTGAATGGCAAGCTCAA  
AGATGCAGAGAAACCTGTATTATTTTTTGAACGATCTGTGTATAGTGACAGGTATATTTTTGCATCTAAT  
TTGTATGAATCTGAATGCATGAATGAGACAGAGTGGACAATTTATCAAGACTGGCATGACTGGATGAATA  
ACCAATTTGGCCAAAGCCTTGAATTGGATGGAATCATTTATCTTCAAGCCACTCCAGAGACATGCTTACA  
TAGAATATATTTACGGGGAAGAAATGAAGAGCAAGGCATTCCTCTTGAATATTTAGAGAAGCTTCATTAT  
AAACATGAAAGCTGGCTCCTGCATAGGACACTGAAAACCAACTTCGATTATCTTCAAGAGGTGCCTATCT  
TAACTGGATGTTAATGAAGACTTTAAGACAAATATGAAAGTCTGGTTGAAAAGGTCAAAGAGTTTTT  
GAGTACTTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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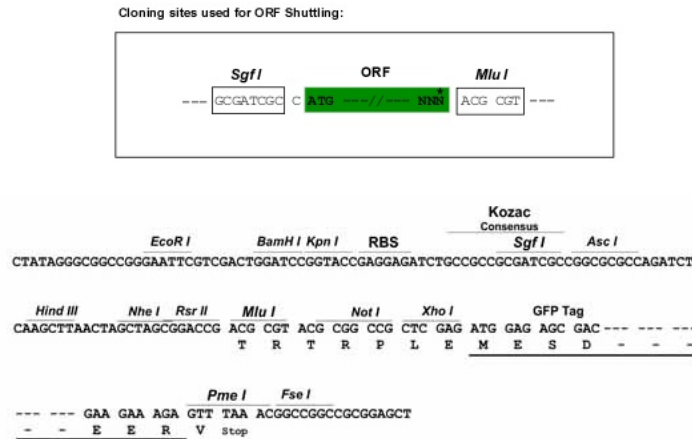
**Protein Sequence:** >RG210767 representing NM\_000788  
Red=Cloning site Green=Tags(s)

MATPPKRSCPSFSASSEGTRIKKISIEGNIAAGKSTFVNILKQLCEDWEVVPEPVARWCNVQSTQDEFEE  
 LTMSQKNGGNVLQMMYEKPERWSFTFQTYACL SRIRAQLASLNGKLKDAEKPVLFERSVYSDRYIFASN  
 LYESECMNETEWTIYQDWHDMNNOFGQSL EL DGI IYLQATPETCLHRIYLRGRNEEQGIPLEYLEKLHY  
 KHESWLLHRTLKTNFDYLVQVPI L TLDVNEDFKDKYESLVEKVK EFLSTL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000788

**ORF Size:** 780 bp

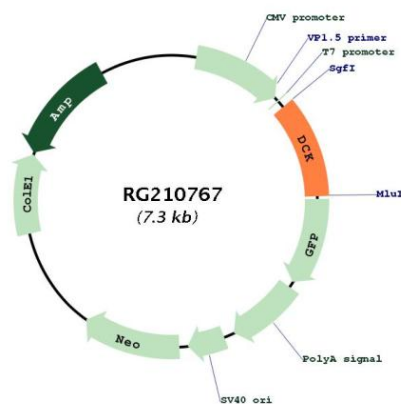
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>	<a href="#">NM_000788.1</a> , <a href="#">NP_000779.1</a>
<b>RefSeq Size:</b>	2460 bp
<b>RefSeq ORF:</b>	783 bp
<b>Locus ID:</b>	1633
<b>UniProt ID:</b>	<a href="#">P27707</a>
<b>Cytogenetics:</b>	4q13.3
<b>Domains:</b>	dNK
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Purine metabolism, Pyrimidine metabolism
<b>Gene Summary:</b>	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]

## Product images:



Circular map for RG210767