

## Product datasheet for **RC221022**

### DKK3 (NM\_015881) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DKK3 (NM_015881) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DKK3
Synonyms:	REIC; RIG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221022 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGCGGCTTGGGGCCACCCTGCTGTGCCTGCTGCTGGCGGCGCGGTCCCCACGGCCCCGCGCCCG  
CTCCGACGGCGACCTCGGCTCCAGTCAAGCCCGGCCCGGCTCTCAGTACCCGACGAGGAGGCCACCCT  
CAATGAGATGTTCCGCGAGGTTGAGGAAGTATGAGGACACGCAGCACAAATTGCGCAGCGCGGTGGAA  
GAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACCTACCTCCCAGCT  
ATCACAATGAGACCAACACAGACACGAAGTTGGAATAATACCATCCATGTGCACCGAGAAATTCACAA  
GATAACCAACAACAGACTGGACAAATGGTCTTTTCAGAGACAGTTATCACATCTGTGGGAGACGAAGAA  
GGCAGAAGGAGCCACGAGTGCATCATCGACGAGGACTGTGGGCCAGCATGTACTGCCAGTTTGCCAGCT  
TCCAGTACACCTGCCAGCCATGCCGGGGCCAGAGGATGCTCTGCACCCGGGACAGTGAGTGCTGTGGAGA  
CCAGCTGTGTGCTGGGGTCACTGCACCAAAATGGCCACCAGGGGACAGCAATGGGACCATCTGTGACAAC  
CAGAGGGACTGCCAGCCGGGGTGTGCTGTGCCTTCCAGAGAGGCTGCTGTTCCCTGTGTGCACACCCC  
TGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGGACCTCATCACCTGGGAGCTAGA  
GCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTCTGCCAGCCCCACAGCCACAGCCTG  
GTGTATGTGTGAAGCCGACCTTCGTGGGGAGCCGTGACCAAGATGGGGAGATCCTGCTGCCAGAGAGG  
TCCCCGATGAGTATGAAGTTGGCAGCTTCATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGAGGAG  
CCTGACTGAAGAGATGGCGCTGGGGGAGCCTGCGGCTGCCCGCGCTGCACTGCTGGGAGGGGAAGAGATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:**

&gt;RC221022 protein sequence

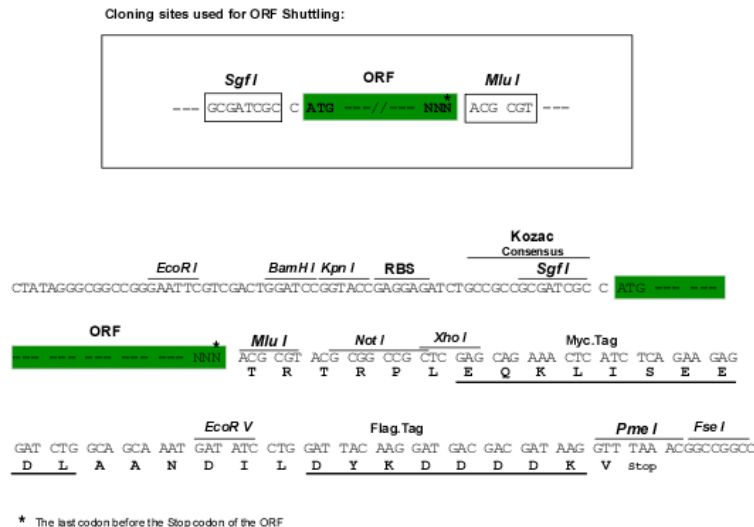
Red=Cloning site Green=Tags(s)

MQRLGATLLCLLLAAVPTAPAPAPTATSAPVKPGPALSYQEEATLNEMFREVEELMEDTQHKLSAVE  
 EMEAAAAKASSEVNLANLPPSYHNETNTDTKVGNNIHHVHREIHKITNNQTGQMVSETVITSVGDEE  
 GRRSHECIIDEDCGPSMYCQFASFQYTCQPCRQMLCTRDSECCGDLVCVWGHCTKMATRGSNGTICDN  
 QRDCQPLCCAFQRGLLFPVCTPLPVEGELCHDPASRLDLITWELEPDGALDRCPASGLLCQPHSHSL  
 VYVKPTFVGSRDQDGEILLPREVPDEYEVGSFMEEVRQELEDLERSLTEEMALGEPAAAAAALLGEEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**
[https://cdn.origene.com/chromatograms/mk6675\\_h04.zip](https://cdn.origene.com/chromatograms/mk6675_h04.zip)
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**ACCN:**

NM\_015881

**ORF Size:**

1050 bp

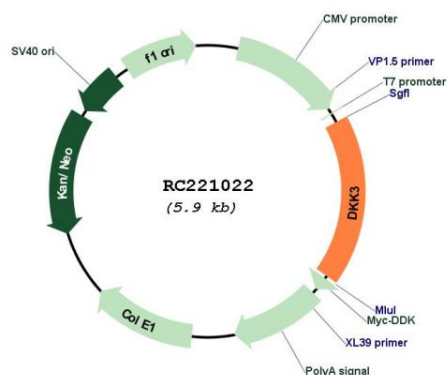
**OTI Disclaimer:**

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.

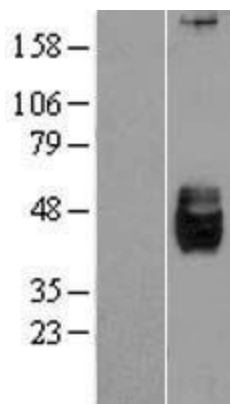
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_015881.3</a></u>
<b>RefSeq Size:</b>	2769 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	27122
<b>UniProt ID:</b>	<u><a href="#">Q9UBP4</a></u>
<b>Cytogenetics:</b>	11p15.3
<b>Domains:</b>	dickkopf_N
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>MW:</b>	38.3 kDa
<b>Gene Summary:</b>	This gene encodes a protein that is a member of the dickkopf family. The secreted protein contains two cysteine rich regions and is involved in embryonic development through its interactions with the Wnt signaling pathway. The expression of this gene is decreased in a variety of cancer cell lines and it may function as a tumor suppressor gene. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

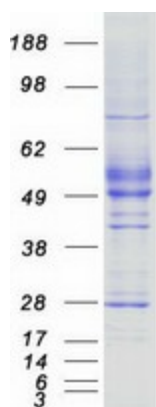
## Product images:



Circular map for RC221022



Western blot validation of overexpression lysate (Cat# [LY402468]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221022 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DKK3 protein (Cat# [TP321022]). The protein was produced from HEK293T cells transfected with DKK3 cDNA clone (Cat# RC221022) using MegaTran 2.0 (Cat# [TT210002]).