

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
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC221022 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCGGCTTGGGGCCACCCTGCTGTGCCTGCTGCTGGCGGCGGGTCCCCACGGCCCCGCGCCCG
CTCCGACGGCGACCTCGGCTCCAGTCAAGCCCGCCGGCTCTCAGTACCCGACGAGGAGGCCACCCT
CAATGAGATGTTCCGCGAGGTTGAGGAAGTATGAGGACACGCAGCACAATTGCGCAGCGCGGTGGAA
GAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAATTACTCCCAGT
ATCACAATGAGACCAACACAGACACGAAGTTGAAATAATACCATCCATGTGCACCGAGAAATTCACAA
GATAACCAACAACCAGACTGGACAAATGGTCTTTTCAGAGACAGTTATCACATCTGTGGGAGACGAAGAA
GGCAGAAGGAGCCACGAGTGCATCATCGACGAGGACTGTGGGCCAGCATGTACTGCCAGTTTGCCAGCT
TCCAGTACACCTGCCAGCCATGCCGGGGCCAGAGGATGCTCTGCACCCGGGACAGTGAAGTGTGGAGA
CCAGCTGTGTGTCTGGGGTCACTGCACCAAAATGGCCACCAGGGGACGAATGGGACCATCTGTGACAAC
CAGAGGGACTGCCAGCCGGGCTGTGCTGTGCCTTCCAGAGAGGCTGCTGTTCCCTGTGTGCACACCCC
TGCCCGTGGAGGGCGAGCTTGGCCATGACCCCGCAGCCGGCTTCTGGACCTCATCACCTGGGAGTAGA
GCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCTCCTCTGCCAGCCCCACGCCACAGCCTG
GTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGTGACCAAGATGGGGAGATCCTGCTGCCAGAGAGG
TCCCCGATGAGTATGAAGTTGGCAGCTTATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGAGGAG
CCTGACTGAAGAGATGGCGCTGGGGAGCCTGCGGCTGCCCGCTGCACTGCTGGGAGGGGAAGAGATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221022 protein sequence
 Red=Cloning site Green=Tags(s)

MQRLGATLLCLLLAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMEDTQHKLRSAVE
 EMEAEAAAKASSEVNLANLPPSYHNETNTDTKVGNNIIVHREIHKITNNQTGQVMVSETVITSVGDEE
 GRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGRMLCTRSECCGDQLCVWGHCTKMATRGSNGTICDN
 QRDCQPGLCCAFQRGLLFPVCTPLPVEGELCHDPASRLLDLITWELEPDGALDRPCASGLLCQPHSHSL
 VYVCKPTFVGSRDQDGEILLPREVPDEYEVGSFMEEVRQLEDLERSLTEEMALGEPAAAAAALLGGEII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

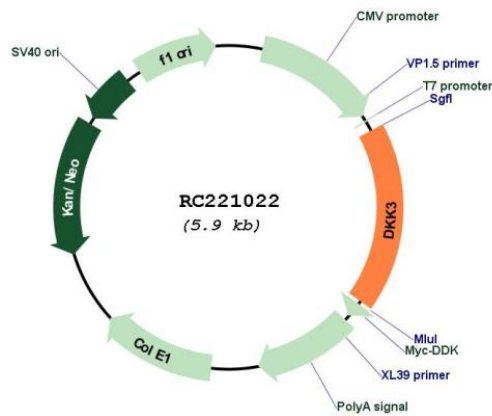
Chromatograms: https://cdn.origene.com/chromatograms/mk6675_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:

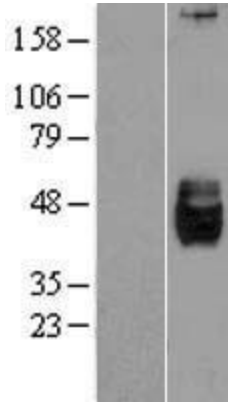


ACCN: NM_015881

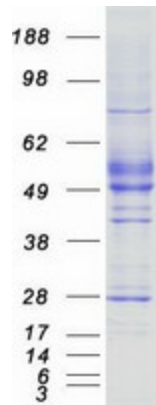
ORF Size:	1050 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional 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 custsupport@origene.com 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. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none"> 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_015881.3
RefSeq Size:	2769 bp
RefSeq ORF:	1053 bp
Locus ID:	27122
UniProt ID:	Q9UBP4
Cytogenetics:	11p15.3
Domains:	dickkopf_N
Protein Families:	Druggable Genome, Secreted Protein
MW:	38.3 kDa

Gene Summary:

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:


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]).