

Product datasheet for **RC224432**

DKK2 (NM_014421) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DKK2 (NM_014421) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DKK2
Synonyms: DKK-2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC224432 representing NM_014421
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCGCGTTGATGCGGAGCAAGGATTCGTCCTGCTGCCTGCTCCTACTGGCCGCGGTGCTGATGGTGG
AGAGCTCACAGATCGGCAGTTCGCGGGCCAACTCAACTCCATCAAGTCCTCTCTGGCGGGGAGACGCC
TGGTCAGGCCCAATCGATCTGCGGGCATGTACCAAGGACTGGCATTGGCGGCAGTAAGAAGGGCAAA
AACCTGGGGCAGGCCTACCCTTGTAGCAGTGATAAGGAGTGTGAAGTTGGGAGGTATTGCCACAGTCCCC
ACCAAGGATCATCGGCCTGCATGGTGTGTCGGAGAAAAAAGAAGCGCTGCCACCGAGATGGCATGTGCTG
CCCCAGTACCCGCTGCAATAATGGCATCTGTATCCCGTTACTGAAAGCATCTTAACCCCTCACATCCC
GCTCTGGATGGTACTCGGCACAGAGATCGAAACCACGGTCATTACTCAAACCATGACTTGGGATGGCAGA
ATCTAGGAAGACCACACTAAGATGTCACATATAAAAGGGCATGAAGGAGACCCCTGCCTACGATCATC
AGACTGCATTGAAGGGTTTTGCTGTGCTCGTCATTTCTGGACAAAATCTGCAAACAGTGTCCATCAG
GGGAAGTCTGTACCAACAACGCAAGAAGGGTTCTCATGGGCTGGAAATTTCCAGCGTTGCGACTGTG
CGAAGGGCCTGTCTTCAAAGTATGAAAGATGCCACCTACTCCTCAAAGCCAGACTCCATGTGTGTCA
GAAAATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC224432 representing NM_014421
 Red=Cloning site Green=Tags(s)

MAALMRSDSSCCLLLLAAVLMVESSQIGSSRAKLNSIKSSLGGETPGQAANRSAGMYQGLAFGGSKKGGK
 NLGQAYPCSSDKECEVGRYCHSPHQSSACMVCRRKKRCHRDMCCPSTRCNGICIPVTESILTPHIP
 ALDGRHRDRNRHGHYSNHDLDGWQNLGRPHTKMSHIKGHEGDPCLRSSDCIEGFCCARHFWTICKPVLHQ
 GEVCTKQRKKGSHGLEIFQRCDCAKGLSCKVWKDATYSSKARLHVCQKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

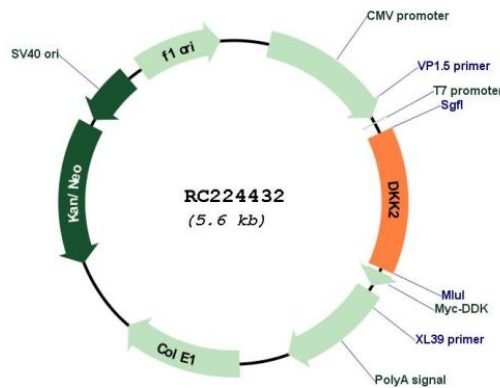
Chromatograms: https://cdn.origene.com/chromatograms/mk6099_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:

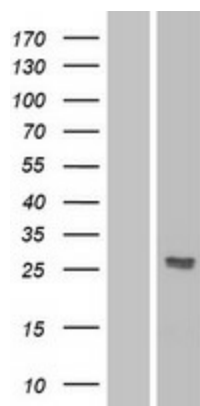


ACCN: NM_014421

ORF Size:	777 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_014421.3
RefSeq Size:	3659 bp
RefSeq ORF:	780 bp
Locus ID:	27123
UniProt ID:	Q9UBU2
Cytogenetics:	4q25
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway
Protein Pathways:	Wnt signaling pathway
MW:	28.45 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. It can act as either an agonist or antagonist of Wnt/beta-catenin signaling, depending on the cellular context and the presence of the co-factor kremen 2. Activity of this protein is also modulated by binding to the Wnt co-receptor LDL-receptor related protein 6 (LRP6). [provided by RefSeq, Jul 2008]

Product images:

Western blot validation of overexpression lysate (Cat# [LY402332]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224432 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).