

Product datasheet for **RC221217**

DKK4 (NM_014420) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DKK4 (NM_014420) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DKK4
Synonyms:	DKK-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221217 representing NM_014420 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGCGCCGCTCCTGCTGGGGCTGAGCTGGCTCTGCTCTCCCCTGGGAGCTCTGGTCTGGACTTCA
ACAACATCAGGAGCTCTGCTGACCTGCATGGGGCCCGAAGGGCTCACAGTGCCTGTCTGACACGGACTG
CAATACCAGAAAGTTCTGCCTCCAGCCCCGCGATGAGAAGCCGTCTGTGCTACATGTCGTGGGTTGCGG
AGGAGGTGCCAGCGAGATGCCATGTGCTGCCCTGGGACACTCTGTGTGAACGATGTTTGTACTACGATGG
AAGATGCAACCCCAATATTAGAAAGGCAGCTTGATGAGCAAGATGGCACACATGCAGAAGGAACAACCTGG
GCACCCAGTCCAGGAAAACCAACCCAAAAGGAAGCCAAGTATTAAGAAATCACAAGGCAGGAAGGGACAA
GAGGGAGAAAGTTGTCTGAGAACTTTTGTACTGTGGCCCTGGACTTTGCTGTGCTCGTCATTTTTGGACGA
AAATTTGTAAGCCAGTCTTTTTGGAGGGACAGGTCTGCTCCAGAAGAGGGCATAAAGACACTGCTCAAGC
TCCAGAAATCTTCCAGCGTTGCGACTGTGGCCCTGGACTACTGTGTGCAAGCCAATTGACCAGCAATCGG
CAGCATGCTCGATTAAGAGTATGCCAAAAAATAGAAAAGCTA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221217 representing NM_014420
Red=Cloning site Green=Tags(s)

MVAAVLLGLSWLCSPLGALVLDVFNIRSSADLHGARKGSQCLSDTDCNTRKFCLQPRDEKPFCA⁺TCRGLR
 RRCQDAMCCPGTLCVNDVCTT⁺MEDATPILERQLDEQD⁺GTHAEGTTGHPVQENQPKR⁺KPSIKKSQGRK⁺GQ
 EGESCLRTFD⁺CGPGLCCARHF⁺WTKICKPVLL⁺EGQVCSRRGHKDTAQAPEIFQRCDCGPGLLCRS⁺QLTSNR
 QHARLRVCQKIEKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6115_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014420

ORF Size: 672 bp

OTI Disclaimer: 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.

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:

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_014420.3](#)

RefSeq Size: 835 bp

RefSeq ORF: 675 bp

Locus ID: 27121

UniProt ID: [Q9UBT3](#)

Cytogenetics: 8p11.21

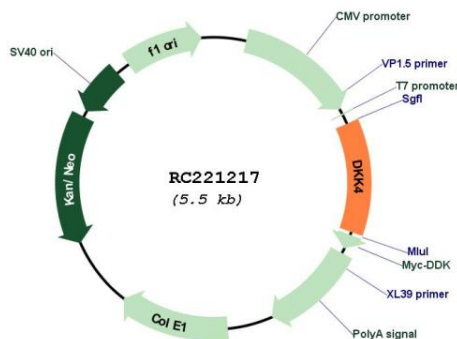
Protein Families: Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway

Protein Pathways: Wnt signaling pathway

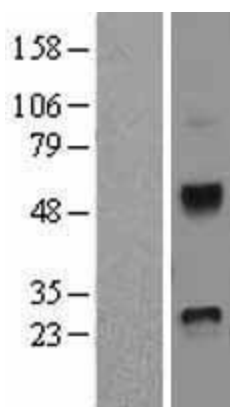
MW: 24.88 kDa

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. Activity of this protein is modulated by binding to the Wnt co-receptor and the co-factor kremen 2. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC221217



Western blot validation of overexpression lysate (Cat# [LY402331]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221217 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).