

## Product datasheet for **RG221217**

### DKK4 (NM\_014420) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DKK4 (NM_014420) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DKK4
Synonyms:	DKK-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221217 representing NM_014420 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGCGCCGCTCCTGCTGGGGCTGAGCTGGCTCTGCTCTCCCCTGGGAGCTCTGGTCTGGACTTCA  
ACAACATCAGGAGCTCTGCTGACCTGCATGGGGCCGGAAGGGCTCACAGTGCCTGTCTGACACGGACTG  
CAATACCAGAAAGTTCTGCCTCCAGCCCCGCGATGAGAAGCCGTCTGTGCTACATGTCGTTGGTTGCGG  
AGGAGGTGCCAGCGAGATGCCATGTGCTGCCCTGGGACTCTGTGTGAACGATGTTGTACTACGATGG  
AAGATGCAACCCCAATATTAGAAAGGCAGCTTGATGAGCAAGATGCCACACATGCAGAAGGAACAACCTGG  
GCACCCAGTCCAGGAAAACCAACCCAAAAGGAAGCCAAGTATTAAGAAATCACAAGGCAGGAAGGGACAA  
GAGGGAGAAAAGTTGTCTGAGAACTTTTGTACTGTGGCCCTGGACTTTGCTGTGCTCGTCATTTTTGGACGA  
AAATTTGTAAGCCAGTCTTTTGGAGGGACAGGTCTGCTCCAGAAGAGGGCATAAAGACTGCTCAAGC  
TCCAGAAATCTTCCAGCGTTGCGACTGTGGCCCTGGACTACTGTGTGCAAGCCAATTGACCAGCAATCGG  
CAGCATGCTCGATTAAGAGTATGCCAAAAAATAGAAAAGCTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221217 representing NM\_014420  
 Red=Cloning site Green=Tags(s)

MVAAVLLGLSWLCSPLGALVLDVFNIRSSADLHGARKGSQCLSDTDCNTRKFCLQPRDEKPFCA<sup>+</sup>TCRGLR  
 RRCQRDAMCCPGTLCVNDVCTT<sup>+</sup>MEDATPILERQLDEQD<sup>+</sup>GTHAEGTTGHPVQENQPKRKPSIKKSQGRK<sup>+</sup>GQ  
 EGESCLRTFD<sup>+</sup>CGPGLCCARHF<sup>+</sup>WKICKPVLL<sup>+</sup>EGQVCSRRGHKDTAQAPEIFQRCDCGPGLLCRSQ<sup>+</sup>LTSNR  
 QHARLRVCQKIEKL

TRTRPLE - GFP Tag - V

**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](#)

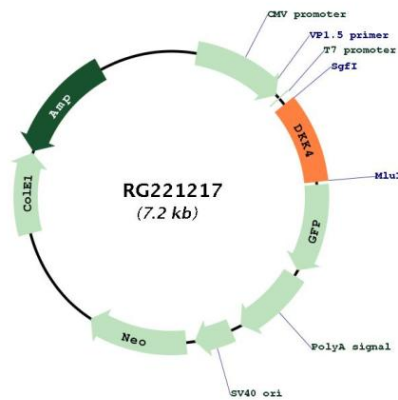
**Cytogenetics:** 8p11.21

**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

**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 RG221217