

## Product datasheet for **SC304099**

### DKK2 (NM\_014421) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DKK2 (NM_014421) Human Untagged Clone
Tag:	Tag Free
Symbol:	DKK2
Synonyms:	DKK-2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_014421 edited  
 CTCCCTCCCTTTGCATTCCCACCCCTCCGGGCTTTGCGTCTTCCTGGGGACCCCTCGCC  
 GGGAGATGGCCGCGTTGATGCGGAGCAAGGATTCGTCTGCTGCCTGCTCCTACTGGCCG  
 CGGTGCTGATGGTGGAGAGCTCACAGATCGGCAGTTCGCGGGCCAACTCAACTCATCA  
 AGTCTCTCTGGGCGGGGAGACGCTGGTCAGGCCGCAATCGATCTGCGGGCATGTACC  
 AAGGACTGGCATTGCGCGGAGTAAAGAGGGCAAAAACCTGGGGCAGGCCTACCCTTGTA  
 GCAGTGATAAGGAGTGTGAAGTTGGGAGGTATTGCCACAGTCCCCACCAAGGATCATCGG  
 CCTGCATGGTGTGTCGGAGAAAAAGAAGCGCTGCCACCGAGATGGCATGTGCTGCCCA  
 GTACCCGCTGCAATAATGGCATCTGTATCCCAGTACTGAAAGCATCTTAACCCCTCACA  
 TCCCGGCTCTGGATGGTACTCGGCACAGAGATCGAAACCAGGTCATTACTCAAACCATG  
 ACTTGGGATGGCAGAATCTAGGAAGACCACACACTAAGATGTCACATATAAAAGGGCATG  
 AAGGAGACCCCTGCCTACGATCATCAGACTGCATTGAAGGGTTTTGCTGTGCTCGTCATT  
 TCTGGACCAAAATCTGCAAAACAGTGTCCATCAGGGGGAAGTCTGTACCAACAACGCA  
 AGAAGGGTTCTCATGGGCTGGAAATTTCCAGCGTTGCGACTGTGCGAAGGGCCTGTCTT  
 GCAAAGTATGGAAAGATGCCACCTACTCCTCAAAGCCAGACTCCATGTGTGTCAGAAAA  
 TTTGATCACCATTGAGGAACATCATCAATTGCAGACTGTGAAGTTGTGATTTAATGCAT  
 TATAGCATGGTGGAAAATAAGGTTTCAGATGCAGAAGAATGG



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014421 unedited  
 GTGGAGTTCAAAATTTGTATACGACTCATATAGGGCGGCCGATTTCGCCCTTCTCCCTC  
 CCTTTGCATTCCCACCCCTCCGGGCTTTGCGTCTTCTGGGGACCCCTCGCCGGGAGAT  
 GGCCGCGTTGATGCGGAGCAAGGATTTCGTCTGCTGCCTGCTCTACTGGCCGCGGTGCT  
 GATGGTGGAGAGCTCACAGATCGGCAGTTCGCGGGCCAACTCAACTCCATCAAGTCCTC  
 TCTGGGCGGGGAGACGCCTGGTCAGGCCCAATCGATCTGCGGGCATGTACCAAGGACT  
 GGCATTCGGCGGCAGTAAGAAGGGCAAAAACCTGGGGCAGGCCTACCCTTGATAGCAGTGA  
 TAAGGAGTGTGAAGTTGGGAGGTATTGCCACAGTCCCCACCAAGGATCATCGGCCTGCAT  
 GGTGTGTCGGAGAAAAAAGAAGCGCTGCCACCGAGATGGCATGTGCTGCCCCAGTACCCG  
 CTGCAATAATGGCATCTGTATCCAGTTACTGAAAGCATCTTAACCCCTCACATCCCGGC  
 TCTGGATGGTACTCGGCACAGAGATCGAAACCACGGTCATTACTCAAACCATGACTTGGG  
 ATGGCAGAATCTAGGAAGACCACACACTAAGATGTCACATATAAAAGGGCATGAAGGAGA  
 CCCCTGCCTACGATCATCAGACTGCATTGAAGGGTTTTGCTGTGCTCGTCATTTCTGGAC  
 CAAAATCTGCAAACAGTCTCCATCAGGGGAAGTCTGTACCAACAACGCAAGAAGGG  
 TTCTCATGGGCTGAAAATTTCCAGCGTTGCGACTGTGCGAAGGGCCTGTCTTGAAGTA  
 TGGAAAGATGCCACCTACTCCTCCAAGCCAGACTCCATGTGTGTCAGAAAATTTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014421 unedited  
 NGGCCCTGGNGATGGCACTTCCAGNCCAGNAAAGCACTGGGNAGGGTCACAGGATGCC  
 ACCCGGGATCTGTTCCAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGACAAGCTT  
 GATATCGGTACCAGATCTGAATTCGCCCTTCCATTCTTCTGCATCTGAACCTTATTTTC  
 CACCATGCTATAATGCATTAATAACACAACCTTACAGTCTGCAATTGATGATGTTCTCA  
 ATGGTGTCAAATTTTCTGACACACATGGAGTCTGGCTTTGGAGGAGTAGGTGGCATCTT  
 TCCATACTTTGCAAGACAGGCCCTTCGCACAGTCGCAACGCTGGAAAATTTCCAGCCCAT  
 GAGAACCCTTCTTGCCTTGTGGTACAGACTTCCCCCTGATGGAGCACTGGTTTGCAGA  
 TTTTGGTCCAGAAATGACGAGCACAGCAAAACCCTTCAATGCAGTCTGATGATCGTAGGC  
 AGGGGTCTCCTTCATGCCCTTTTATATGTGACATCTTAGTGTGGTCTTCTTAGATTCT  
 GCCATCCAAGTCATGGTTTGTAGTAATGACCGTGGTTTCGATCTCTGTGCCGAGTACCAT  
 CCAGAGCCGGGATGTGAGGGGTTAAGATGCTTTCAGTAACCTGGGATACAGATGCCATTAT  
 TGCAGCGGGTACTGGGGCAGCACATGCCATCTCGGTGGCAGCGCTTCTTTTTCTCCGAC  
 ACACCATGCAGGCCGATGATCCTTGGTGGGGACTGTGGCAATACCTCCCAACTTCACACT  
 CCTTATCACTGCTACAAGGGTAGGCCTGCCCCANGTTTTTGCCCTTCTTACTGCCGCCGA  
 ATGCCAGTCTTGGTACATGCCCGCAGATCGATTGGCGGCTGACCAGGCGTCTCCCCGC  
 CG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_014421

**Insert Size:**

950 bp

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.</p>
<b>Components:</b>	<p>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).</p>
<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>RefSeq:</b>	<p><a href="#">NM_014421.2</a>, <a href="#">NP_055236.1</a></p>
<b>RefSeq Size:</b>	<p>3659 bp</p>
<b>RefSeq ORF:</b>	<p>780 bp</p>
<b>Locus ID:</b>	<p>27123</p>
<b>UniProt ID:</b>	<p><a href="#">Q9UBU2</a></p>
<b>Cytogenetics:</b>	<p>4q25</p>
<b>Protein Families:</b>	<p>Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway</p>
<b>Protein Pathways:</b>	<p>Wnt signaling pathway</p>
<b>Gene Summary:</b>	<p>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]</p>