

## Product datasheet for **MC210099**

### Dkk2 (NM\_020265) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Dkk2 (NM\_020265) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Dkk2  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC210099 representing NM\_020265  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGCGCTGATGCGGGTCAAGGATTATCCCCTGCCTTCTCCTACTGGCCGCGGTGCTGATGGTGG  
 AGAGCTCACAGCTAGGCAGCTCGCGGGCCAACTCACTCCATCAAGTCCTCTCTAGGAGGGGAGACTCC  
 TGCTCAGTCAGCCAACCGATCTGCAGGCATGAACCAAGGACTGGCTTTCGGCGGCAGTAAGAAGGGCAAA  
 AGCCTGGGGCAGGCCTACCCTTGACAGCAGTGATAAGGAATGTGAAGTTGGAAGATACTGCCACAGTCCCC  
 ACCAAGGATCATCAGCCTGCATGCTCTGTAGGAGAAAAAGAAACGATGCCACAGAGATGGGATGTGTTG  
 CCCTGGTACCCGCTGCAATAATGGAATCTGCATCCCAGTCACTGAGAGCATCCTCACCCACATATCCCA  
 GCTCTGGATGGCACCCGGCATAGAGATCGCAACCATGGTCACTATTCCAACCATGACCTGGGATGGCAGA  
 ATCTAGGAAGGCCACACTCCAAGATGCCTCATATAAAAGGACATGAAGGAGACCCATGCCTACGGTCATC  
 AGACTGCATTGATGGTTTTGTTGTGCTCGCCACTTCTGGACAAAATCTGCAAACCATGCTCCATCAG  
 GGGGAAGTCTGTACCAACAACGCAAGAAGGGTTCGCACGGGCTGGAGATTTTCCAGAGGTGTGACTGTG  
 CAAAGGGCTGTCTGCAAAGTGTGAAAGATGCCACCTACTCTCCAAGCCAGACTCCATGTATGCCA  
 GAAGAT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_020265  
 Insert Size: 780 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<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>	<a href="#">NM_020265.4</a> , <a href="#">NP_064661.2</a>
<b>RefSeq Size:</b>	3705 bp
<b>RefSeq ORF:</b>	780 bp
<b>Locus ID:</b>	56811
<b>UniProt ID:</b>	<a href="#">Q9QYZ8</a>
<b>Cytogenetics:</b>	3 G3
<b>Gene Summary:</b>	Antagonizes canonical Wnt signaling by inhibiting LRP5/6 interaction with Wnt and by forming a ternary complex with the transmembrane protein KREMEN that promotes internalization of LRP5/6. DKKs play an important role in vertebrate development, where they locally inhibit Wnt regulated processes such as antero-posterior axial patterning, limb development, somitogenesis and eye formation. In the adult, Dkks are implicated in bone formation and bone disease, cancer and Alzheimer disease.[UniProtKB/Swiss-Prot Function]