

Product datasheet for **MC202608**

Dkk3 (NM_015814) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dkk3 (NM_015814) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dkk3
Synonyms:	AW061014; C87148; dkk-3; mDkk-3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>BC050934 sequence for NM_015814
CGCGGAACAAACATGCAGCGGCTCGGGGTATTTTGTGTGTACTGCTGGCGGCGGGTCCCCACTG
CTCCTGCTCCTTCCCCGACGGTCACTTGGACTCCGGCGGAGCCGGGCCAGCTCTCAACTACCCTCAGGA
GGAAGCTACGCTCAATGAGATGTTTCGAGAGGTGGAGGAGCTGATGGAAGACTCAGCACAACCTGCGC
AGTGCCGTGGAGGAGATGGAGGCGGAAGAAGCAGCTGCTAAAACGTCCTCTGAGGTGAACCTGGCAAGCT
TACCTCCCAACTATCACAATGAGACCAGCACGGAGACCAGGTGGGAAATAACACAGTCCATGTGCACCA
GGGATGAAGAAGGCAAGAGGAGCCATGAATGTATCATTGATGAAGACTGTGGGCCACCAGGTACTGCC
AGTTCTCCAGCTTCAAGTACACCTGCCAGCCATGCCGGGACCAGCAGATGCTATGACCCGAGACAGTGA
GTGCTGTGGAGACCAGCTGTGTGCCTGGGGTCACTGCACCCAAAAGGCCACCAAAGGTGGCAATGGGACC
ATCTGTGACAACAGAGGGATTGCCAGCCTGGCCTGTGTTGTGCCTTCCAAAGAGCCTGCTGTTCCCCG
TGTGCACACCCCTGCCCGTGGAGGGAGAGCTTGCCATGACCCACCAGCCAGCTGCTGGATCTCATCAC
CTGGAACTGGAGCCTGAAGGAGCTTTGGACCGATGCCCTGCGCCAGTGGCCTCCTATGCCAGCCACAC
AGCCACAGTCTGGTGTACATGTGAAGCCAGCCTTCGTGGCAGCCATGACCACAGTGGAGAGCCAGC
TGCCAGGGAGGCCCGGATGAGTACGAAGATGTTGGCTTCATAGGGGAAGTGCGCCAGGAGCTGGAAGA
CCTGGAGCGGAGCCTAGCCAGGAGATGGCATTGAGGGGCCCTGCCCTGTGGAGTCACTAGGCGGAGAG
GAGGAGATTTAGGCCAGACCCAGCTGAGTCACTGGTAGATGTGCAATAGAAATGGCTAATTTATTTTCC
CAGGAGTGTCCCAAGTGTGAATGGCCGAGCTCCTTCCAGTAGCTTTTCTCTGGCTTGACAAGGTA
CAGTGCAGTACATTTCTCCAGCCGCCCTGCTTCTGACTTGGGAAAGACAGGCATGGCGGGTAAGGGC
AGCGGTGAGTTCCTCGCTGTTGCTAGAAACGCTGCTTGTCTTTCATGGATGGAAGATTTGTTTGAA
GGGAGAGGATGGGAGGGGTGAAGTCTGCTCATGATGGATTTGGGGATACAGGGAGGAGGATGCCTGCC
TTGCAGACGTGGACTTGGCAAAATGTAACCTTTGCTTTTGTCTTTCGCCCGCTCCCATGGCTGAGGCAGT
GGCTACACAAGAGCTATGCTGCTCTGTGGCCTCCACATATTCATCCCTGTGTTTCAGCTCCTACCTCAC
TGTGAGCACAGCCCTTATAGCCACGCCCTTCTGCTACCCACAGCCTAGGAGGGGACAGAGGGGACT
TCTCTCAGAGCCCATGCTCTCTCTCAACCCATACCAGCCTCTGTGCCAGGACAGTCTTCCAAAT
GGAGGGAGTGAATCCTTTGGTTTTATTATTTTCTCTCAAGGCACGCCTGCCACTAAGGTGAGGCTGA
CTTGATGTCCCTTAACGTTTCGTAGCAGTGTGGTGGACTGTCTTCCACCGACTGTTCAATACCTCT
GAAAGCCAGTGTTCGAGTGCAGTTCGTGTAATTAATTTGCAGGAAGTATACTTGGCTAATTTGAGGGC
TAGGATTTGTAATGAAATTTGCAAAGTCGTTAGCAACAATGGAAAGCCTTCTCAGTACACCCGAGAAG
TCACAACCAAGCCAGGTTGTGTAGAGTACAGTGTGACATACAGACAGAAGAAGGCTGGGCTGGATGCA
GGCCTCAGATGACGGTTTCAGGTGCCAGGAACTATTACCATTCTGTATCTATCCAGGTTATTAATTTG
AAAGTTGCACACATTTGATAAGCATGCCTTTCTCCTGAGTTTTAAATTATATGTATACACAACATGTG
GCCCTCAAAGATCATGCACAACCACTACTCTTTGCTAATTTCTGGACTTTTCTCTTTGATTTTCAATA
ATACAATCCCCTTATGCAAAAAAATTAACAATCTGTAGTATAAAGAGACAAAAAATTCATAGAA
GCAGATTTCCAGGCATCTGCAGTTTCCCTCTTTTAGAATCGGAATTCGTTGGAATCTCATCCTTGTCT
GGATGGGAATTAGCTTTAACAGAGAACTACTTACCCTCTCCTGAAAGAACAAATGGAATATATGAGTC
TTCTCTTGGAGGCTCTTCCACTCAAATGCAGTTCGGGGCTGTGCTAGCATTGATACTGTAACAAAACG
GCTGAAGCAATGAACTTATATTTAAAAAGTTAGGTTAATTGGGTTACCATTTTCAGTTCAGTCTCTG
ATCCCATGGGGTTGAACTAAGGAGAGGCAGCACAGCGTGGCAAGGGAATGGGTAGAGTCAAGCTGCTC
CCTTTCTGGCTAACAGGAGAGTGGGCAATGTGCAGTCTTGTGAGAATGCCAGGTCTGGGGGAAGGGA
GTGCCCTGGACATCACCTTAAAGGTGGAGACTTCTGCAGCTTTGGTTTTAGTTACTCTTCTGGGTGCTAC
AATCAAACGCCCAACAAGAAGCCACCTGAGGGATGAGGGTTTTTTTTGGCTCCTGGTTCAAGCAGGGAGT
CCTTCTGTCAGGAGTGAAGGTTGCTTCTGTCAGTGTGGAGGATCAGGAAGCAAAGAAAGCAATGCA
AGACTCAGCTTTCTCTTTCCCTGATTATTTATCTGGAACCCCAACCCTTGGGGTGGTCCGACCCGA
GTAAGAGTGAAGTCTTCTTCTTAGAACCTCTGAAAACCTTGGCCTCATAGAAATGTGCAGAGGTGTG
TCACCTAAATTTCAAATCCATTCTGTTCCAAGACATGGGAGCGCTATGTGCTAAGTCTTCCACATAAG
AGCACCGAGTACCTTTAAACGCTGTAATCGCATCTGAAGATACCACAGTAAAGAGATGTAACATTT
AGGAAAACAATAATGTAAGTACCTGTAAAAAAGGACCTGTAAAAAAGGACCTGTAAAAAAGGACCTGT

Restriction Sites:

AscI-NotI

ACCN:

NM_015814

Insert Size:	1050 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>
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:	BC050934 , AAH50934
RefSeq Size:	3290 bp
RefSeq ORF:	1050 bp
Locus ID:	50781
UniProt ID:	Q9QUN9
Cytogenetics:	7 F1

Gene Summary:

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 (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2 and 3 both encode the same isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.