

Product datasheet for MR202533

Dkk4 (NM_145592) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dkk4 (NM_145592) Mouse 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:	>MR202533 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTACTGGTGACCTTGCTTGGACTCAGCTGGTTTTGTTACCCCTGGCAGCCCTGGTTCTGGACTTTA
ACAACATCAAGAGCTCCGCGGATGTGCAAGGCGCGGGGAAGGGCTCGCTGTGTGCATCAGACAGGGACTG
CAGCGAAGGGAAATTCTGCTTAGCGTTTACGATGAACGGTCGTTCTGTGCCACGTGCCGTAGAGTTCCG
AGGAGGTGTAGAGGAGCGCCGTGTGCTGCCAGGAACGGTCTGTGTGAATGATGTTTGCCTGCAGTGG
AAGACACAAGGCCAGTGATGGACAGAACTGACGGCCAAGACGGCCCTATGCAGAAGGAACCTAA
ATGGCCAGCAGAGGAAAACAGACCTCAGGGGAAGCCAGTACGAAGAAATCACAAGCAGTAAGGGACAG
GAGGGAGAAAGCTGTCTTAGAACCTCTGACTGTGGCCCTGGACTTTGCTGTGCTCGCCATTTTTGGACAA
AAATTTGCAAGCCAGTTCTACGAGAGGGACAAGTCTGCTCCAGGAGGGGGCACAAGACTGCCCAAGC
CCCAGAAATCTTCCAGCGTTGCGACTGCGGGCCTGGACTAACGTGCCGAAGTCAGGTGACCAGTAACAGA
CAACATTCAAGGCTAAGAGTATGCCAAAGAATA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202533 protein sequence
 Red=Cloning site Green=Tags(s)

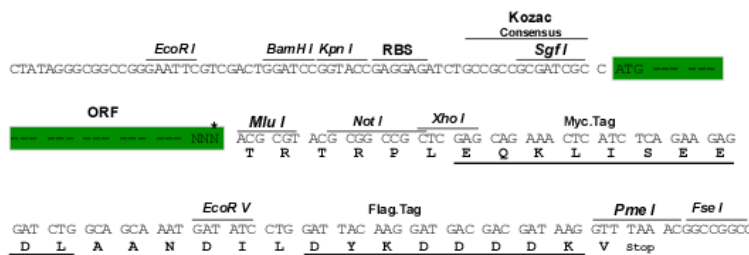
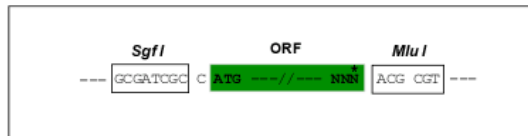
MVLVTLGLSWFCSPALALVDFNNIKSSADVQGAGKGS LCASDRDCSEKGFCLAFHDESF C ATCRRVR
 RRCQRS AVCCPGTV CVNDVCTAVEDTRPVMDRNTDGDGAYAEGTTKWP AEENRPQ GKPKSKS QS SKGQ
 EGESCLRTSDCGPGLCCARHFWKICKPVLREGQVCSRRGHKDTAQAPEIFQRCD CGPGLTCRSQVTSNR
 QHSRLRVCQRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145592

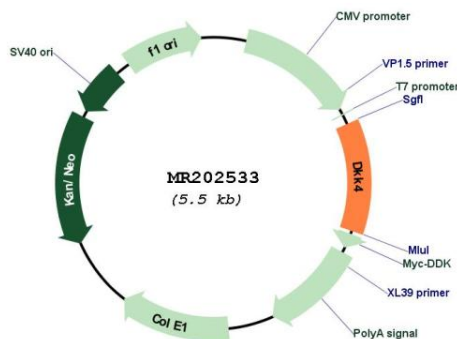
ORF Size: 666 bp

OTI Disclaimer: 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.

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:	<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:	<u>NM_145592.1</u>
RefSeq Size:	1315 bp
RefSeq ORF:	666 bp
Locus ID:	234130
UniProt ID:	<u>Q8VEJ3</u>
Cytogenetics:	8 A2
MW:	24.3 kDa
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]

Product images:


Circular map for MR202533