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# Product datasheet for MG202533

## Dkk4 (NM_145592) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Dkk4 (NM_145592) Mouse 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:**

>MG202533 representing NM_145592
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTACTGGTGACCTTGCTTGGACTCAGCTGGTTTTGTTCACCCCTGGCAGCCCTGGTTCTGGACTTTA
ACAACATCAAGAGCTCCGCGGATGTGCAAGGCGCGGGGAAGGGCTCGCTGTGTGCATCAGACAGGGACTG
CAGCGAAGGGAAATTCTGCTTAGCGTTTCACGATGAACGGTCGTTCTGTGCCACGTGCCGTAGAGTTCGC
AGGAGGTGTCAGAGGAGCGCCGTGTGCTGCCCAGGAACGGTCTGTGTGAATGATGTTTGCACTGCAGTGG
AAGACACAAGGCCAGTGATGGACAGAAACACTGACGGCCAAGACGGCGCCTATGCAGAAGGAACCACTAA
ATGGCCAGCAGAGGAAAACAGACCTCAGGGGAAGCCCAGTACGAAGAAATCACAAAGCAGTAAGGGACAG
GAGGGAGAAAGCTGTCTTAGAACCTCTGACTGTGGCCCTGGACTTTGCTGTGCTCGCCATTTTTGGACAA
AAATTTGCAAGCCAGTTCTACGAGAGGGACAAGTCTGCTCCAGGAGGGGGCACAAAGACACTGCCCAAGC
CCCAGAAATCTTCCAGCGTTGCGACTGCGGGCCTGGACTAACGTGCCGAAGTCAGGTGACCAGTAACAGA
CAACATTCAAGGCTAAGAGTATGCCAAAGAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:**

>MG202533 representing NM_145592
Red=Cloning site Green=Tags(s)

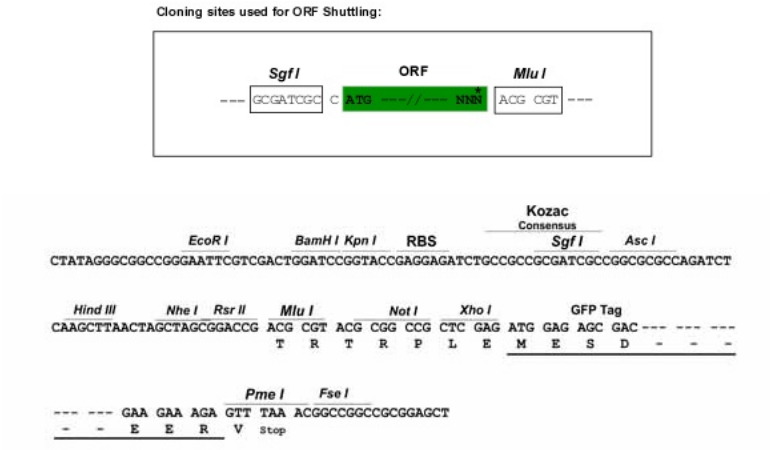
MVLVTLLGLSWFCSPLAALVLDFNNIKSSADVQGAGKGSLCASDRDCSEGKFCLAFHDERSFCATCRRVR
RRCQRSAVCCPGTVCVNDVCTAVEDTRPVMDRNTDGQDGAYAEGTTKWPAEENRPQGKPSTKKSQSSKGQ
EGESCLRTSDCGPGLCCARHFWTKICKPVLREGQVCSRRGHKDTAQAPEIFQRCDCGPGLTCRSQVTSNR
QHSRLRVCQRI

TRTRPLE - GFP Tag - V

**Chromatograms:** https://cdn.origene.com/chromatograms/ja2294_a03.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_145592

**ORF Size:** 663 bp

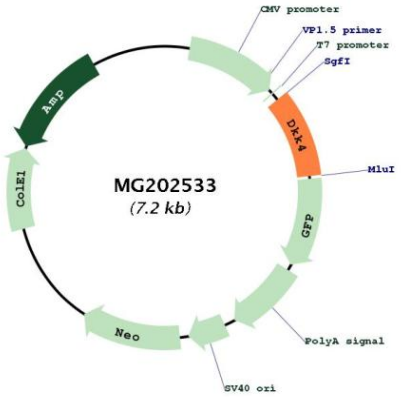
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_145592.1 |
| **RefSeq Size:** | 1315 bp |
| **RefSeq ORF:** | 666 bp |
| **Locus ID:** | 234130 |
| **UniProt ID:** | Q8VEJ3 |
| **Cytogenetics:** | 8 A2 |
| **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 MG202533