

Product datasheet for **MG203629**

Dkk1 (NM_010051) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dkk1 (NM_010051) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dkk1
Synonyms:	mdkk-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203629 representing NM_010051 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGTTGTGTGTCAGCGGCAGCTGTCCGGTCTTGCCGTGTTACAATGATGGCTCTCTGCAGCC
TCCCTCTGCTAGGAGCCAGTGCCACCTGAACTCAGTTCTCATCAATCCAACGCGATCAAGAACCTGCC
CCCACCGCTGGGTGGTGTGGGGGCAGCCGGCTCTGCTGTGAGTGTGGCGCCGGGAGTTCTCTATGAG
GGCGGGAACAAGTACCAGACTCTTGACAACTACCAGCCCTACCCTTGCCTGAAGATGAGGAGTGGCGT
CTGACGAGTACTGCTCCAGCCCCAGCCGGGGCAGCCGGCGTCCGAGGTGTACAGATCTGTCTGGCTTG
CCGAAAGCGCAGGAAGCGCTGCATGAGGCACGCTATGTGCTGCCCGGGAAGTACTGCAAAAATGGAATA
TGCATGCCCTCTGACCACAGCCATTTCCCTCGAGGGGAAATTGAGGAAAGCATCATTGAAAACTTGGTA
ATGACCACAACGCCCGCCGGGGATGGATATCCAGAAGAACCACACTGACTTCAAAAATATATCACAC
CAAAGGACAAGAAGGCTCCGTCTGCCTCCGATCATCAGACTGTGCCGAGGGCTGTGTTGTGCAAGACAC
TTCTGGTCCAAGATCTGTAACCTGTCTTAAAGAAGTCAAGTGTGCACCAAGCACAAACGAAAGGCT
CCCACGGCTGGAGATATCCAGCGCTGTACTGCGGGGAAGGCTGGCTGCAGGATACAGAAAGATCA
CCATCAAGCCAGCAATTTCTAGGCTCCACACCTGCCAGAGACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203629 representing NM_010051
 Red=Cloning site Green=Tags(s)

MMVVC AAAAVRFLAVFTMMALCSLPLLGSATLNSVLINSNAIKNLPPPLGGAGGQPGSAVSVAPGVLYE
 GGNKYQTLDNYPYPCAEDEECGSD EYCSSPSRGAAGVGGVQICLACRKRRCMRHAMCCPGNYCKNGI
 CMPSDHSHPRGEIEESIENLGN DHNAAAGDGYPRRTLT SKIYHTKGQEGSVCLRSSDCAAGLCCARH
 FWSKICKPVLKEGQVCTKHKRK GSHGLEIFQR CYCGEGLACRIQKDH HQASNSSRLHTCQRH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010051

ORF Size: 816 bp

OTI Disclaimer: 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.
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: [NM_010051.3](#), [NP_034181.2](#)

RefSeq Size: 2245 bp

RefSeq ORF: 819 bp

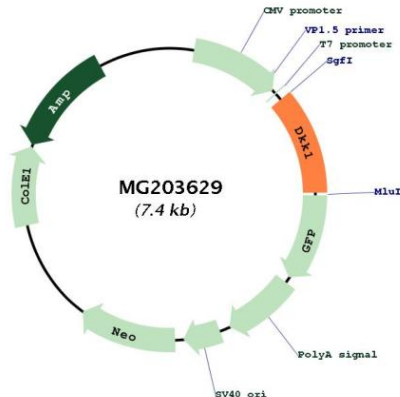
Locus ID: 13380

UniProt ID: [O54908](#)

Cytogenetics: 19 C1

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 (PubMed:18524778). Inhibits the pro-apoptotic function of KREMEN1 in a Wnt-independent manner, and has anti-apoptotic activity (PubMed:26206087). Plays a role in limb development; attenuates Wnt signaling in the developing limb to allow normal limb patterning (PubMed:18505822).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG203629