

Product datasheet for **MG222291**

Dkk2 (NM_020265) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dkk2 (NM_020265) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dkk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222291 representing NM_020265 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGCTGATGCGGGTCAAGGATTCATCCCCTGCTTCTCCTACTGGCCGCGGTGCTGATGGTGG
AGAGCTCACAGCTAGGCAGCTCGCGGGCCAACTCACTCCATCAAGTCCTCTCTAGGAGGGGAGACTCC
TGCTCAGTCAGCCAACCGATCTGCAGGCATGAACCAAGGACTGGCTTCGGCGGCAGTAAGAAGGGCAA
AGCCTGGGGCAGGCCTACCCTTGCAGCAGTGATAAGGAATGTGAAGTTGGAAGATACTGCCACAGTCCCC
ACCAAGGATCATCAGCTGCATGCTGTAGGAGGAAAAAGAACGATGCCACAGAGATGGGATGTGTTG
CCCTGGTACCGCTGCAATAATGGAATCTGCATCCCAGTCACTGAGAGCATCCTCACCCACATATCCCA
GCTCTGGATGGCACCGCATAGAGATCGCAACCATGGTCACTATTCCAACCATGACCTGGGATGGCAGA
ATCTAGGAAGGCCACACTCCAAGATGCCTCATATAAAAAGGACATGAAGGAGACCCATGCCTACGGTCATC
AGACTGCATTGATGGGTTTTGTGTGCTCGCCACTTCTGGACAAAACTGCAAACCACTGCTCCATCAG
GGGGAAGTCTGTACCAAACACGCAAGAAGGGTTCGCACGGGCTGGAGATTTCCAGAGGTGTACTGTG
CAAAGGGCTGTCTGCAAAGTGTGAAAGATGCCACCTACTCTCAAAGCCAGACTCCATGTATGCCA
GAAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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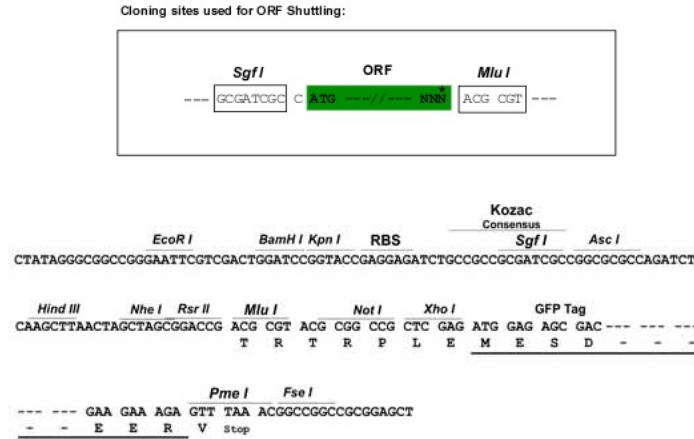
Protein Sequence: >MG222291 representing NM_020265
Red=Cloning site Green=Tags(s)

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MAALMRVKDSSRCLLLLAAVLMVESSQLGSSRAKLNLSIKSSLGGETPAQSANRSAGMNGQLAFGGSKKGK
SLGQAYPCSSDKECEVGRYCHSPHQSSACMLCRRKKKCHRDMCCPGTRCNGICIPVTESILTPHIP
ALDGRHRDRNRHGYSNHLGWQNLGRPHSKMPHIKGHEGDPCLRSSDCIDGFCCARHFWKICKPVLHQ
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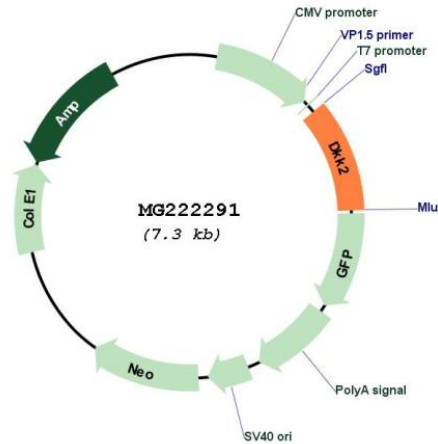
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_020265

ORF Size: 777 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:	<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:	NM_020265.4 , NP_064661.2
RefSeq Size:	3705 bp
RefSeq ORF:	780 bp
Locus ID:	56811
UniProt ID:	Q9QYZ8
Cytogenetics:	3 G3
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.[UniProtKB/Swiss-Prot Function]