

Product datasheet for **MG202775**

Dkk1 (NM_015789) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dkk1 (NM_015789) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dkk1
Synonyms: AI414495; mSgy; SGY; SGY-1; SGY1; Soggy
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202775 representing NM_015789
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTCGACTGAGGGTCTTGCTGCTGCTGCTCCCCTTGGCCTTCGTGTCCTCCTCTGCTCTCCCATCC
ATGATGTCGACTCTCAGCAGAACACCTCCGGTTCCTGGCCTTCAGAGGCTTCTCAAAGCTTTAGTCG
ACTGTTCTAAAAATGACCTGCTACGAGACCTGGACACTTCTTCTCCTCCCCATGGACTTCCGAGAC
CTTCTAGGAACCTCCATCAGGAAGAGAACCAGGAGCACAGAATGGCAACCATAACCTCTCCAGCCACC
TACAGATAGACAAGGTGACTGACAACCAGACAGGGGAGGTGCTCATCTCGGAGAAAGTCGAGGCCTCCAT
TGAGCCAGAACGGAACCCGGAAGGGGACTGGAAGGTTCCCAAAGTAGAAGCAAAAGAGCCCCGGTGCCT
GTGCGAAGGTCACCGACAGCTTGCACCCAGAGCCCCGGCAGGTGGCTTTCTGGATCATGAAGATGCCAA
GGCGGAGGACCCAGCCGATGTCCAGGATGGAGCCGCTGGCTCATAGAAAAGCGACATCGCATGCAGGC
CATCCGGGATGGGCTCCGTGGAGGCGCCGTGAGGACAGCCTGGAGGATGGGGTCCATATCCCCAACAC
GCCAAGCTGCCTGTCAGAAAGACACACTTCTCTACATCCTCAGGCCATCCCAACAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202775 representing NM_015789
 Red=Cloning site Green=Tags(s)

MCRLRVLLLLPLAFVSSALPIHDVDSQQNTSGFLGLQRLQLQSF SRLFLKNDLLRDLDNFFSSPMDFRD
 LPRNFHQEENQEHRMGNHTLSSHLQIDKVDNQTGEVLI SEKVEASIEPERNPEGDWKVPKVEAKEPPVP
 VQKVTDLSLHPEPRQVAFWIMKMPRRRTQPDVQDGGRWLIEKRHRMQAIRDGLRGGAREDSLEDGVHIPQH
 AKLPVRKTHFLYLIRPSQQL

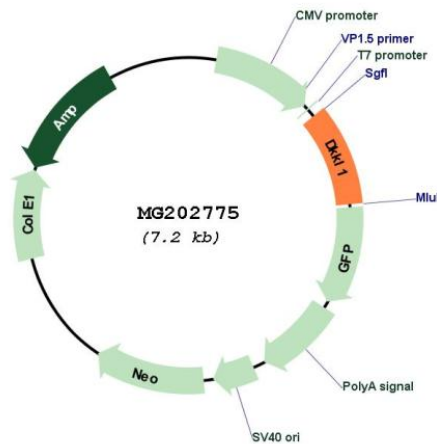
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_015789

ORF Size: 690 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_015789.3 , NP_056604.2
RefSeq Size:	906 bp
RefSeq ORF:	693 bp
Locus ID:	50722
UniProt ID:	Q9QZL9
Cytogenetics:	7 29.19 cM
Gene Summary:	Involved in fertilization by facilitating sperm penetration of the zona pellucida (PubMed:19596312, PubMed:22817830). May promotes spermatocyte apoptosis, thereby limiting sperm production. In adults, may reduces testosterone synthesis in Leydig cells (PubMed:18818293). Is not essential either for development or fertility (PubMed:19596310). [UniProtKB/Swiss-Prot Function]