

Product datasheet for RR209622

DIk1 (NM_053744) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIk1 (NM_053744) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DIk1
Synonyms:	Pref-1; Zog
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR209622 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCGCGACCGGAGCCCTCTGCGCGTCTCTTGTCTCTGCTGGCTTTCGGCCACAGCACCTATGGGG
CTGAGTGCACCCGGCCTGTGACCCTCAGCATGGATTCTGTGAGGCTGACAATGTCTGCAGGTGTGAGCC
TGGCTGGGAGGGCCCCCTGTGTGAGAAGTGCCTAACCTCCCTGGCTGTGTTAATGGACTCTGTGAAGAA
CCATGGCAGTGTGTCTGCAAGGAAGGCTGGGACGGGAAATCTGCGAAATAGATATTCGGGCTTGCACCT
CTACCCCTGCGCAACAATGGGACTTGGCTGGACCTCGAGAAAGCCAGTACGAATGCTCCTGCACCCC
TGGATTCTCTGAAAGGACTGTCAGCACAAAGGCTGGGCCCTGCGTGATCAATGGTTCTCCCTGCCAGCAC
GGAGGCGCTGCGTGGATGATGAGGGCCGGCCTCGCATGCTTCTGCCTGTGCCCCCTGGCTTCTCGG
GCAACTTCTGTGAGATCGTGACCAACAGCTGTACCCTAACCCATGCGAGAACGATGGCGTCTGCACCGA
CATCGGGGGGACTTCCGTTGCCGCTGCCAGCTGGATTCTGCGACAAGACCTGCAGCCGTCCGGTGAGC
AACTGCGCCAGTGGCCCGTGCCTGAACGGGGGCACCTGCCTCCAGCACACCCAGGTGAGCTTCGAGTGTCT
TGTGCAAGCCCCGTTTCATGGGTCCCACATGCGCGAAGAAGCGCGGGACCAGCCCCGTGCAGGTACCCCA
CCTACCCAGCGGCTACGGGCTCACCTACCGCTGACCCCCGGGGTGCACGAGTACCTGTCCAGCAGCCC
GAGCACCATCCTGAAGGTGTCCATGAAAGAGCTCAACAAGAGTGCCCTCTCACCAGGGGACAGG
CCATCTGCTTACCATCCTGGGCGTGTACCAGCCTGGTTGTGCTGGGACCCGTGGCCATCGTCTTTCT
CAACAAGTGCAGGCCTGGGTGTCCAACCTGCGCTACAACCACATGCTTCGCAAGAAGAAGAACCTGCTG
TTGCAGTACAACAGCGCGAGGAGCTGGCGGTCAATATCATCTTCCCGGAGAAGATCGACATGACCACCT
TCAACAAGGAGGCTGGTATGAGGATATC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209622 protein sequence
Red=Cloning site Green=Tags(s)

MIATGALLRVLLLLLAFGHSTYGAECDPACDPQHGFCADNVCRCPEGWEGPLCEKCVTSPGCVNGLCEE
 PWQCVCKEGWGDKFCEIDIRACTSTPCANNGTCDLEKQYECSTPGFSGKDCQHKAGPCVINGSPCQH
 GGACVDDEGRASHASCLCPPGFSGNFCEIVTNSCTPNPCENDGVCTDIGDFRCRCPAGFVDKTCRSPVS
 NCASGPCLNGGTCLQHTQVSFECLCKPPFMGPTCAKKRGTSPVQVTHLPSGYGLTYRLTPGVHELVPVQQP
 EHHILKVSMKELNKSAPLLTEGQAICFTILGVLTSLVVLGTVAIVFLNKCEAWVSNLRYNHMLRKKKNLL
 LQNSGEELAVNIIFPEKIDMTTFNKEAGDEDI

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_053744

ORF Size: 1149 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_053744.1](#), [NP_446196.1](#)

RefSeq Size: 1538 bp

RefSeq ORF: 1152 bp

Locus ID: 114587

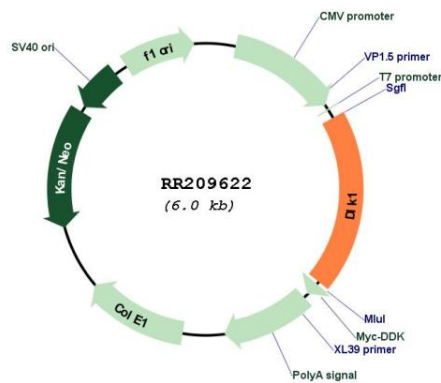
UniProt ID: [O70534](#)

Cytogenetics: 6q32

MW: 41.1 kDa

Gene Summary: involved in maintaining the undifferentiated status of the preadipocyte [RGD, Feb 2006]

Product images:



Circular map for RR209622