

Product datasheet for **RG202923**

DLK (DLK1) (NM_003836) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLK (DLK1) (NM_003836) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DLK1
Synonyms:	Delta1; DLK; DLK-1; FA1; pG2; Pref-1; PREF1; ZOG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202923 representing NM_003836 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGCACCGAAGCCCTCTGCGCTCCTCTTGTCTCTGCTGGCTTTCGGCCACAGCACCTATGGGG
CTGAATGCTTCCCGCCTGCAACCCCCAAAATGGATTCTGCGAGGATGACAATGTTTGCAGGTGCCAGCC
TGGCTGGCAGGGTCCCCTTTGTGACCAGTGCCTGACCTCTCCCGCTGCCTTACGGACTCTGTGGAGAA
CCCGGGCAGTGCATTTGCACCGACGGCTGGGACGGGGAGCTCTGTGATAGAGATGTTCCGGCCTGTCTCT
CGCCCCCTGTGCCAACACGGGACCTGCGTGAGCCTGGACGATGGCCTCTATGAATGCTCTGTGCCCC
CGGGTACTCGGAAAGGACTGCCAGAAAAGGACGGGCCCTGTGTGATCAACGGCTCCCCCTGCCAGCAC
GGAGGCACCTGCGTGGATGATGAGGGCCGGCCTCCCATGCCTCCTGCCTGTGCCCCCTGGCTTCTCAG
GCAATTTCTGCGAGATCGTGGCCAACAGCTGCACCCCCAACCCATGCGAGAACGACGGCGTCTGCACTGA
CATCGGGGGCAGCTTCCGCTGCCGGTGCCAGCCGGCTTCATCGACAAGACCTGCAGCCGCCGGTGACC
AACTGCGCCAGCAGCCGTGCCAGAACGGGGCACCTGCCTGCAGCACACCCAGGTGAGCTACGAGTGTC
TGTGCAAGCCCGAGTTACAGGTCTCACCTGTGTCAAGAAGCGCGCTGAGCCCCAGCAGGTACCCCG
GAGCACCGCATCTGAAGGTGTCCATGAAAGAGCTCAACAAGAAAACCCCTCTCCTCACCAGGGCCAGG
CCATCTGCTTACCATCCTGGGGTGTCTACCAGCCTGGTGTGCTGGGCACTGTGGGTATCGTCTTCT
CAACAAGTGCAGACCTGGGTGTCCAACCTGCGCTACAACCACATGCTGCGGAAGAAGAAGAACCTGCTG
CTTCAGTACAACAGCGGGGAGGACCTGGCCGTCAACATCATCTTCCCGAGAAGATCGACATGACCACCT
TCAGCAAGGAGCCGGCGACGAGGAGATC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202923 representing NM_003836
 Red=Cloning site Green=Tags(s)

MTATEALLRVLLLLLAFGHSTYGAECFPACNPQNGFCEDDNVCRCPGWQGPLCDQCVTSPGCLHGLCGE
 PGQICITDGDWDELCDRDVACSSAPCANNGTCVSLDDGLYECSCAPGYSGKDCQKKGPCVINGSPCQH
 GGTCVDDEGRASHASCLCPPGFSGNFCEIVANSCTPNPCENDGVCTDIGDFRCRCPAGFIDKTCSRPT
 NCASSPCQNGGTCLQHTQVSYECLCKPEFTGLTCVKKRALSPQQVTRLPNGYGLAYRLTPGVHELTPVQQP
 EHRILKVSMKELNKKTPLLTEGQAICFTILGVLTSLVVLGTVGIVFLNKCETWVSNLRYNHMLRKKKNLL
 LQNSGEDLAVNIIFPEKIDMTTFSKEAGDEEI

TRTRPLE - GFP Tag - V

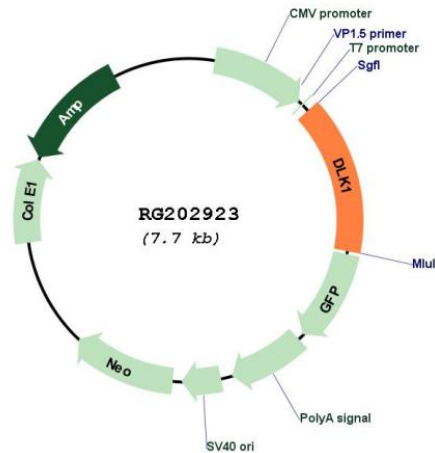
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_003836

ORF Size:	1149 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_003836.3
RefSeq Size:	1532 bp
RefSeq ORF:	1152 bp
Locus ID:	8788
UniProt ID:	P80370
Cytogenetics:	14q32.2
Domains:	EGF_CA, EGF, EGF
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Gene Summary:

This gene encodes a transmembrane protein that contains multiple epidermal growth factor repeats that functions as a regulator of cell growth. The encoded protein is involved in the differentiation of several cell types including adipocytes. This gene is located in a region of chromosome 14 frequently showing unparental disomy, and is imprinted and expressed from the paternal allele. A single nucleotide variant in this gene is associated with child and adolescent obesity and shows polar overdominance, where heterozygotes carrying an active paternal allele express the phenotype, while mutant homozygotes are normal. [provided by RefSeq, Nov 2015]