

Product datasheet for **SC127962**

DLK (DLK1) (NM_003836) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLK (DLK1) (NM_003836) Human Untagged Clone
Tag:	Tag Free
Symbol:	DLK1
Synonyms:	Delta1; DLK; DLK-1; FA1; pG2; Pref-1; PREF1; ZOG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003836, the custom clone sequence may differ by one or more nucleotides

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ATGACCGCGACCGAAGCCCTCTGCGCGTCTCTTGTCTCTGCTGGCTTTCGGCCACAGCACCTATGGGG
CTGAATGCTTCCCGGCCTGCAACCCCAAAATGGATTCTGCGAGGATGACAATGTTTGCAGGTGCCAGCC
TGGCTGGCAGGGTCCCCTTTGTGACCAAGTGCCTGACCTCTCCCGGCTGCCTTACCGGACTCTGTGGAGAA
CCCGGGCAGTGCAATTTGCACCGACGGCTGGGACGGGGAGCTCTGTGATAGAGATGTTTCGGGCTGCTCCT
CGGCCCCCTGTGCCAACACGGGACCTGCGTGAGCCTGGACGATGGCCTCTATGAATGCTCTGTGCCCC
CGGGTACTCGGAAAGGACTGCCAGAAAAGGACGGGCCCTGTGTATCAACGGCTCCCCCTGCCAGCAC
GGAGGCACCTGCGTGGATGATGAGGGCCGGCCCTCCCATGCCTCCTGCCTGTGCCCCCTGGCTTCTCAG
GCAATTTCTGCGAGATCGTGGCCAACAGCTGCACCCCAACCCATGCGAGAACGACGGCGTCTGCACTGA
CATTGGGGGCGACTTCCGCTGCCGGTGCCAGCCGGCTTCATCGACAAGACCTGCAGCCGCCGGTGACC
AACTGCGCCAGCAGCCCGTGCCAGAACGGGGGACCTGCCTGCAGCACACCCAGGTGAGCTACGAGTGTC
TGTGCAAGCCCGAGTTCACAGGTCTCACCTGTGTCAAGAAGCGCGCGCTGAGCCCCAGCAGGTCACCCG
TCTGCCAGCGGCTATGGGCTGGCCTACCGCTGACCCCTGGGGTGCACGAGCTGCCGGTGCAGCAGCCG
GAGCACCGCATCTGAAGGTGTCCATGAAAGAGCTCAACAAGAAAACCCCTCTCCTACCGAGGGCCAGG
CCATCTGCTTACCATCCTGGGCGTCTCACCAGCCTGGTGGTGTGCTGGGCACTGTGGGTATCGTCTTCT
CAACAAGTGCAGACCTGGGTGTCCAACCTGCGCTACAACCACATGCTGCGGAAGAAGAAGAACCTGCTG
CTTCAGTACAACAGCGGGGAGGACCTGGCCGTCAACATCATCTTCCCCGAGAAGATCGACATGACCACCT
TCAGCAAGGAGGCCGGCAGCAGGAGATCTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003836 unedited
 NGGTTGCATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGGCGGTGGAGA
 GCGCAGCGCGCAGCCCGGTGCAGCCCTGGCTTTCCCTCGCTGCGCGCCCGGCCCCCTT
 TCGCGTCCGCAACCAGAAGCCAGTGCGGGCCAGGAGCCGGACCCGCGCCCGCACCCGCT
 CCCGGGACCGCGACCCCGGCCGCCAGAGATGACCGCGACCGAAGCCCTCCTGCGCGTCC
 TCTTGTCTCCTGCTGGCTTTCGGCCACAGCACCTATGGGGCTGAATGCTTCCCGCCTGCA
 ACCCCCAAATGGATTCTGCGAGGATGACAATGTTTGCAGGTGCCAGCCTGGCTGGCAGG
 GTCCCTTTGTGACCAGTGCGTGACCTCTCCCGGCTGCCTTACGGAAGCTGTGGAGAAC
 CCGGGCAGTGCATTTGCACCGACGGCTGGGACGGGGAGCTCTGTGATAGAGATGTTCCGG
 CCTGCTCCTCGGCCCTGTGCCAACAACGGGACCTGCGTGAGCCTGGACGATGGCCTCT
 ATGAATGCTCCTGTGCCCGGGTACTCGGAAAGGACTGCCAGAAAAGGACGGGCCCT
 GTGTGATCAACGGCTCCCTGCCAGCACGGAGCACCTGCGTGGATGATGAGGGCCGG
 CCTCCATGCCTCCTGCCTGTGCCCCCTGGCTTCTCAGGCAATTTCTGCGAGATCGTGG
 CCAACAGCTGCACCCCAACCCATGCGAGAACGACNNGCGTCTGCACTGACATCGNNGGC
 GACTTCCGCTGCGGGTGCCAGCCGGCTTTCATCGACAGACCTGCAGNCGNCCGGTGAC
 CAACTGCCAGCAGCCCGTGCCAGAACGGGGCAGCTGGCTGCAGCACACCAGTGAGCT
 ACGAGTGTCTGTGCAAGCCCGATTNACAGGTCTNACCTGTGTGANGAGCGCGCTGAGC
 CCCAGCAG

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_003836 unedited
 NGGGCCTTTTCGATGGAATTCCTCATATTATTCTGTATCATGCATTAGNGNANAGAAGNG
 GATTGTTTTTGCATTGCGTTTGTACACAGCAGCACAAAGACAATATATGTAAGCGTAGC
 GTTCACCAGATTTGACACAAGAGATAGCGAACACCACAAAGATTAGGACAGACCCGCTGT
 AGTAAGCTCTGCGGAAGTCCAAGAATCTAGAGGGGGCTGTGGGAACGCTGCTTAGATCTC
 CTGCTCGCCGGCCTCCTTGTGAAGGTGGTTCATGTCGATCTTCTCGGGGAAGATGATGTT
 GACGGCCAGGTCTCCCGCTGTTGTAAGCAGCAGGTTCTTCTTCTCCGCAGCAT
 GTGGTTGTAGCGCAGGTTGGACACCCAGGTTCTCGCACTTGTGAGGAAGACGATACCCAC
 AGTGCCAGCACCACAGGCTGGTGAGCACGCCAGGATGGTGAAGCAGATGGCCTGGCC
 CTCGGTGAGGAGAGGGGTTTTCTGTTGAGCTTTTCATGGACACCTTCCAGGATGCGGTG
 CTCGGCTGCTGCACCGGCAGCTCGTGACCCAGGGGTGAGCGGTTAGCCAGCCATA
 GCCGCTGGGCAGACGGGTGACCTGCTGGGGGCTCAGCGCGCTTCTTGACACAGGTGAG
 ACCTGTGAACTCGGGCTTGACACAGACACTCGTAGCTCACCTGGGTGTGCTGCAGGCAGGT
 GCCCCCGTTCTGGCACGGCTGCTGGCGCAGTTGGTACCAGGGCGGCTGCAGGTCTTGTG
 GATGAAGCCGGCTGGGCACCGGGCAGCGGAAGTCGCCCGATGTGAGTGCAGACGCCGT
 CGTTCTCGCATGGGTTGGGGTGCAGCTGGTTGGCCCGATCTCA

Restriction Sites:

NotI-NotI

ACCN:

NM_003836

Insert Size:

1700 bp

OTI Disclaimer: 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.

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](#)

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_003836.4](#), [NP_003827.3](#)

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.