

Product datasheet for **SC320741**

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:	DLK
Synonyms:	Delta1; DLK; DLK-1; FA1; pG2; Pref-1; PREF1; ZOG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003836.4
GAGAGCGCAGCGCAGCCCGGTGCAGCCCTGGCTTTCCCCTCGTGCGCGCCCGCGCCC
CCTTTTCGCGTCCGCAACCAAGCCAGTGCAGGCGCCAGGAGCCGACCCGCGCCCGCAC
CGCTCCCGGGACCGCAGCCCGGCGCCAGAGATGACCGCGACCGAAGCCCTCCTGCGC
GTCCTCTTGCTCCTGCTGGCTTTTCGCGCCACAGCACCTATGGGGTGAATGCTTCCCGGCC
TGCAACCCCAAAATGGATTCTGCGAGGATGACAAATGTTTGCAGGTGCCAGCCTGGCTGG
CAGGGTCCCTTTGTGACCAGTGCCTGACCTCTCCCGGCTGCCTTACGGACTCTGTGGA
GAACCCGGGCAGTGCATTTGACCCGACGGCTGGGACGGGAGCTCTGTGATAGAGATGTT
CGGGCCTGCTCCTCGGCCCTGTGCCAACACGGGACCTGCGTGAGCCTGGACGATGGC
CTCTATGAATGCTCCTGTGCCCCGGTACTCGGAAAGGACTGCCAGAAAAAGGACGGG
CCCTGTGTGATCAACGGCTCCCCCTGCCAGCACGGAGGACCTGCGTGGATGATGAGGGC
CGGGCCTCCCATGCCTCCTGCCTGTGCCCCCTGGCTTCTCAGGCAATTTCTGCGAGATC
GTGGCCAACAGCTGCACCCCAACCCATGCGAGAACGACGGCGTCTGCACTGACATCGGG
GGCGACTTCCGCTGCCGGTGCCAGCCGGCTTCAATCGACAAGACCTGCAGCCGCCGGTG
ACCAACTGCGCCAGCAGCCCGTGCAGAACGGGGCACCCTGCCTGCAGCACACCCAGGTG
AGCTACGAGTGTCTGTGCAAGCCGAGTTCACAGGTCTCACCTGTGTCAAGAAGCGCGG
CTGAGCCCCCAGCAGGTACCCGTCTGCCAACGGCTATGGGTGGCCTACCGCCTGACC
CCTGGGGTGCACGAGTCCCGGTGCAGCAGCCGGAGCACCGCATCCTGAAGGTGTCCATG
AAAGAGTCAACAAGAAAACCCCTCTCCTCACCGAGGGCCAGGCCATCTGCTTACCATG
CTGGGCGTGTACCAGCCTGGTGGTGTGGGCACTGTGGGTATCGTCTTCTCAACAAG
TGCGAGACCTGGGTGTCAACCTGCGCTACAACCATGCTGCGGAAGAAGAAGAACTG
CTGCTTACGTACAACAGCGGGGAGGACCTGGCCGTCAACATCATCTTCCCGAGAAGATC
GACATGACCACCTTCAGCAAGGAGGCGCGGACGAGGAGATCTAAGCAGCGTTCCACAG
CCCCCTAGATTCTTGGAGTTCCTCAGAGTTACTATACGGGTCTGCTTAATCTTTG
TGGTGTTCGCTATCTCTGTGTCAAATCTGGTGAACGCTACGCTTACATATATTGCTTT
GTGCTGTGTGACAAACGCAATGCAAAAACAATCCTCTTTCTCTCTTAATGCATGA
TACAGAATAATAAAGAATTTTCATCTTAAAAAAAAAAAAAAAAAAAA



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Restriction Sites:	Please inquire
ACCN:	NM_003836
Insert Size:	1500 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_003836.4 , 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 uniparental 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.