

Product datasheet for **SC303527**

DLG5 (NM_004747) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: DLG5 (NM_004747) Human Untagged Clone
Tag: Tag Free
Symbol: DLG5
Synonyms: LP-DLG; P-DLG5; PDLG
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_004747, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCCCCAGCGCCGGGAGCTGCTCGCCCAGTGTGTCAGCAGAGCCTGGCCCAGGCCATG
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GAGCTCAAGGAACAGATGGAATCCCAGTTGAAAAAGGAGGCCCGTTCCGACAGCTGATG
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AGCAGGTACTTACAGGGGTCTCCAGGGAGGAGCCCTGTCAAGCATTGCACTCAGATC
TTGGCAATGGTCAATCAAGAACAAAATAAAGTCCTGTGGATTCCAGCCTGCCCGCTCTAG

Restriction Sites:

Please inquire

ACCN:

NM_004747

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](#)

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:

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_004747.2](#), [NP_004738.2](#)**RefSeq Size:**

7101 bp

RefSeq ORF: 5430 bp

Locus ID: 9231

UniProt ID: [Q8TDM6](#)

Cytogenetics: 10q22.3

Domains: SH3, PDZ, Guanylate_kin, GuKc

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the family of discs large (DLG) homologs, a subset of the membrane-associated guanylate kinase (MAGUK) superfamily. The MAGUK proteins are composed of a catalytically inactive guanylate kinase domain, in addition to PDZ and SH3 domains, and are thought to function as scaffolding molecules at sites of cell-cell contact. The protein encoded by this gene localizes to the plasma membrane and cytoplasm, and interacts with components of adherens junctions and the cytoskeleton. It is proposed to function in the transmission of extracellular signals to the cytoskeleton and in the maintenance of epithelial cell structure. Alternative splice variants have been described but their biological nature has not been determined. [provided by RefSeq, Jul 2008]