

Product datasheet for MC223509

Dlc1 (NM_015802) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dlc1 (NM_015802) Mouse Untagged Clone
Tag: Tag Free
Symbol: Dlc1
Synonyms: A730069N07Rik; Arhgap7; dlc-1; HP; STARD12
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223509 representing NM_015802
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTGTAGAGACGAGCCGGACACCATGATCCTAACACAAATTGAAGCCAAGGAAGCTTGCAGCTGGCTGA
 GAGTACTGGTTTCCCCAGTATGCACAGCTGTATGAAGATCTACTGTTCCCTATTGATATTGCGCTGGT
 CAAGAGAGAACATGACTTCTTGGACAGAGACGCCATCGAGGCTCTCTGCAGGCGCTTAAATACTCTAAAC
 AAGTGTGCAGTCATGAAGCTGGAGATCAGTCCTACCCGGAAGCGAAGTGAGGATTCGGATGAAGATGAGC
 CTTGCGCCATAAGCGGCAAGTGGACTTCCAGAGGGACAGCAAGCGGTGGTCCCGCCTTGAAGAGTTTGA
 CGTCTTTTCCCCAAAGCAGGATCCAATCCCTGGGTCCCCAGACAACCTCTCGTTTGCAAAGCGCCACAAGC
 CACGAAAGCATGCTGACAGACCTCAGCGAGCACCAGGAGGTGGCCTCTGTCCGAAGCCTCAGCAGCACCA
 GCAGCAGCGTCCCACCCACGCAGCCCACAGTGGAGATGCCACTACGCCCGAACCAATCCGTCATCAG
 CGTCTGCTCCTCCGGACACTTTGTAGGCAATGATGACTCTTTTCCAGCCTGCCGTCTCCAAGGAACTG
 TCCAGTTCAGTTTTAGCATGAAAGGCCACCACGAGAAGAACAAGTGAAGACGCGGAGCCTGCTCA
 AACGCATGGAGAGCCTGAAGCTCAAGGGTCCCACCACAGCAAGCACAAGGCGCCTTCCAAGCTGGGTT
 GATCATCAGTGCTCCATTCTGCAGGAGGTATGGATGAGGCAAAGCTGAAGCAGCTGAAGTGTGTGGAG
 ATCTCAGCCCTCAATGGCAACCACATCAACGTGCCATGGTACGAAAAGGAGCGTGTCTAACTCCACCC
 AGACCAGCAGCAGCAGCAGCCAATCAGAGACCAGCAGCGGTCAGCACACCCAGCCCGGTACCAGGAC
 CCGGAGCCTCAGCACCTGTAACAAGCGGTGGGCATGTATCTAGAGGGCTTCGACCCATTAGTCAGTCC
 ACCTTGAACAACGTGACGGAGCAGAATAAAAAACCGTGAGAGTACCCAGAGGACACGGTGTCTTACA
 TCCCCGAAGATCACAAGCCCGCACCTTCCCTAAGGCCCTCTCCATGGCAGTTTCTGTCCCTCGGGAAA
 CAGTTCTGTGAAGTGGAGACCGGAAGCTTCCATGGCCCTGGCCATCTCAGCCTACGGAGAGAAAACAGC
 CATGACAGTCTAAGGAGCTGAAGAGACGCAATCTTCCAGCTCTCTGAGCAGCCGCTGAGCATCTATG
 ATAACGTACCGGTTCTATCCTGTACTCAGCTCGGGAGAAGTGGCCGACCTGGAGAATGAGGACATCTT
 CCCTGAGCTGGATGACATTCTCTACCACGTGAAGGGGATGCAGCGGATAGTCAACCAGTGGTCCGAGAAG
 TTTTCCGACGAGGGAGACTCGGACTCAGCCCTGGACTCTGTCTCTCTTCCCGTCATCTCCAAAACAGA



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TACACCTGGATGTGGACCATGACCGAAGGACACCCAGTGACCTGGACAGCACAGGCAACTCCCTCAATGA
 GCCCGAAGAGCCCACTGATATCCCGAAAGAAGAGACTCAGGGGTGGGGCTTCCCTGACCAGGTGCAAT
 AGGCACAGACTGAGGTGGCACAGCTTCCAGAGCTCCCACCGGCCGAGCCTCAACTCCGTGTCACTGCAGA
 TTAAGTCCAGCTGTGGCCAGATGAACCTGTGCAGAAATACTCGCTCCTGAAATTGACGGCCCTGT
 GGAAAAGTACACGCCCTCCAACAAGCACGGCTTACAGTGGGTGTGCCAAGTTCATGAAAAGGATCAAG
 GTTCCAGACTACAAGGACCGAGTGTGTTGGGGTCCCAGTACTGTGAACGTGCAGCGCTCAGGACAGC
 CCCTGCCCCAGGCATCCAGCAGGCCATGCGCTACCTCCGTAACCACTGTCTGGACCAGGTCGGGCTCTT
 CAGGAAGTCAGGTGTCAAATCCCGGATCCAGGCTCTACGCCAGATGAATGAAAGCGCTGAAGATAATGTC
 AACTATGAAGGCCAGTCTGCTTATGATGTGGCAGACATGTTAAAGCAATATTTTCGAGATCTTCTGAGC
 CCCTCATGACGAACAACTCTCCGAAACCTTCTGCAGATCTACCAGTATGTTCCCAAGGACCAGCGCT
 CCAAGCCATCAAGGCGGCCATTATGCTCCTGCCGACGAGAACCAGGAGGTTCTGCAGACACTTCTCTAT
 TTCCTGAGCGATGTACAGCGGCTGTGAAAGAAAACCAGATGACTCCACCAACCTGGCTGTGTGCCTAG
 CTCGTCCTCTCCACCTCAACACCTGAAGCGAGAGAATTCTTCTCAAGGTAATGCAAAGAAAACA
 GAGTTTGGCAAACCAGACCAGAAAGACCTGAATGAAAACCTAGCGGCGACTCAAGGGCTGGCCACATG
 ATTGCTGAGTGAAGAAGCTCTCCAGGTCCTGAGGAAATGAGCCGGTCCGTAACCTACACTGAAC
 AAGAGCTGAAGCCCTTACCCTGGAGGCTTGGGACACCTGAATAGTGACCAGCCTGCTGACTACAGACA
 CTTCCTCCAGGACTGTGTGGATGGCCTGTTAAGGAGGTCAAAGAGAAAGTCAAAGGCTGGGTGAGCTAC
 CCCACCTCCGAACAGGCTGAGCTGTCTATAAGAAGGTGACGGAAGGACCCCGTTAAGGCTTGGAGGT
 CAACTATCGAAGTCCCGCTGCACCCGAGGAGATCTTAAAGCGCCTTCTGAAGGAGCAACACCTCTGGGA
 TGTGGACTGTGGACTCCAAGGTGATTGAAATCTGGACAGCCAGACTGAAATCTACCAATACGTCCAA
 AACAGCATGGCGCCCCACCTGCGCGGGACTACGTCGATTGAGGACCTGGAGGACTAATTACCCAGGG
 GGGCTGTGCTCTTACTCACCTCTGTGATCACGACCGGGCCCCGTGGCGGGGTGAGGGTTAATGT
 GTCCTGTCCAGATATTTGATTGAACCTGCGGGTCAGGAAAATCCAAGCTTACCTACATGTGCAGAGCT
 GATTTAAGGGCCACATGCCGGAGTGGTACTCAAATCTTTTGGACATTTGTGTGCAGCCGAAGTGGTAA
 AGATCCGAGACTCCTTCAGTAATCAGAACACTGAAAGCAAGGACACGAGATCTAGGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_015802

Insert Size:

3279 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_015802.3](#), [NP_056617.2](#)

RefSeq Size: 6184 bp

RefSeq ORF: 3279 bp

Locus ID: 50768

UniProt ID: [Q9R0Z9](#)

Cytogenetics: 8 23.05 cM

Gene Summary: Functions as a GTPase-activating protein for the small GTPases RHOA, RHOB, RHOC and CDC42, terminating their downstream signaling. This induces morphological changes and detachment through cytoskeletal reorganization, playing a critical role in biological processes such as cell migration and proliferation. Also functions in vivo as an activator of the phospholipase PLCD1. Active DLC1 increases cell migration velocity but reduces directionality (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.