

Product datasheet for MC223647

Dlc1 (NM_001194941) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlc1 (NM_001194941) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dlc1
Synonyms:	A730069N07Rik; Arhgap7; dlc-1; HP; STARD12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223647 representing NM_001194941 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGACCCCGAGGGCCACGTGATGGCTCGGCCCTGAGAGGCCCGCTGCGGAGGTCCTTCAGCGACC
ACATCAGAGACTCCACCGCCAGGGCGCTGGATGCTATCTGGAAAAACACCAGAGAGACGGCTAGCAGA
AATTGAAGCCAAGGAAGCTTGGCAGTGGCTGAGAGTACTGGTTTCCCCAGTATGCACAGCTGTATGAA
GATCTACTGTTCCCTATTGATATTGCGCTGGTCAAGAGAGAACATGACTTCTGGACAGAGACGCCATCG
AGGCTCTCTGCAGGCGCTTAAATACTCTAAACAAGTGTGCAGTCATGAAGCTGGAGATCAGTCTCACCG
GAAGCGAAGTGAAGATTGGATGAAGATGAGCCTTGCGCCATAAGCGGCAAGTGGACTTCCAGAGGGAC
AGCAAGCGGTGGTCCCGCCTTGAAGAGTTTGACGTCTTTCCCAAAGCAGGATCCAATCCCTGGGTCCC
CAGACAACTCTCGTTTGCAAAGCGCCACAAGCCACGAAAGCATGCTGACAGACCTCAGCGAGCACCAGGA
GGTGGCTCTGTCCGAAGCCTCAGCAGCACCAGCAGCAGCGTCCCCACCCACGCAGCCCACAGTGGAGAT
GCCACTACGCCCCGAACCAATCCGTATCAGCGTCTGCTCCTCCGACACTTTGTAGGCAATGATGACT
CTTTTCCAGCTGCCGTCTCCAAGGAAGTGTCCAGTTCAGTTTTAGCATGAAAGGCCACCACGAGAA
GAACACCAAGTGAAGACGCGGAGCCTGCTCAAACGCATGGAGAGCCTGAAGCTCAAGGGCTCCCACCAC
AGCAAGCACAAGGCGCCTTCCAAGCTGGGTTGATCATCAGTGTCCATTCTGCAGGAGGATGGATG
AGGCAAAGCTGAAGCAGCTGAAGTGTGGAGATCTCAGCCCTCAATGGCAACCACATCAAGTGGCCAT
GGTACGGAAAAGGAGCGTGTCTAACTCCACCCAGACCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC
GCGGTGAGC
ATCTAGAGGGCTTCGACCCATTAGTCACTCCACCTTGAACAACGTGACGGAGCAGAACTATAAAAACCG
TGAGAGCTACCCAGAGGACACGGTGTCTACATTTCCGAAGATCACAGCCCGGCACCTTCCCTAAGGCC
CTCTCCATGGCAGTTTCTGTCCCTCGGAAAACAGTCTGTGAACTGGAGGACCGGAAGCTTCCATGGCC
CTGGCCATCTCAGCCTACGGAGAGAAAACGCCATGACAGTCTAAGGAGCTGAAGAGACGCAATCTTCT
CAGCTCTGAGCAGCCGCTGAGCATCTATGATAACGTACCGGGTCTATCCTGTACTCCAGCTCGGGA



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GAACTGGCCGACCTGGAGAATGAGGACATCTTCCTGAGCTGGATGACATTCTCTACCACGTGAAGGGGA
 TGCAGCGGATAGTCAACCAGTGGTCCGAGAAGTTTTCCGACGAGGGAGACTCGGACTCAGCCCTGGACTC
 TGTCTCTCCTTGCCCGTCATCTCCAAAACAGATACACCTGGATGTGGACCATGACCGAAGGACACCCAGT
 GACCTGGACAGCACAGGCAACTCCCTCAATGAGCCCGAAGAGCCCACTGATATCCCGAAAGAAGAGACT
 CAGGGGTGGGGCTTCCCTGACCAGGTGCAATAGGCACAGACTGAGGTGGCACAGCTTCCAGAGCTCCCA
 CCGGCCGAGCCTCAACTCCGTGCTACTGCAGATTAAGTCCAGTCTGTGGCCAGATGAACCTGTCAG
 AAATACTCGCTCCTGAAATTGACGGCCCTGCTGGAAAAGTACACGCCCTTCCAACAAGCACGGCTTCAAG
 GGGCTGTGCCCAAGTTCATGAAAAGGATCAAGGTTCCAGACTACAAGGACCGGAGTGTGTTGGGGTCCC
 ACTGACTGTGAACGTGCAGCGCTCAGGACAGCCCTGCCCCAGAGCATCCAGCAGCCATGCGCTACCTC
 CGTAACCACTGTCTGGACCAGGTCGGGCTCTTCAGGAAGTCAAGTGTCAAATCCCGGATCCAGGCTCTAC
 GCCAGATGAATGAAAGCGCTGAAGATAATGTCAACTATGAAGGCCAGTCTGCTTATGATGTGGCAGACAT
 GTTAAAGCAATATTTTCGAGATCTTCTGAGCCCTCATGACGAACAACTCTCCGAAACCTTCTGCGAG
 ATCTACCAGTATGTTCCCAAGGACCAGCGCTCCAAGCCATCAAGGCGGCCATTATGCTCCTGCCGACG
 AGAACC GGAGGTTCTGCAGACTTCTCTATTTCTGAGCGATGTCACAGCGGCTGTGAAAGAAAACCA
 GATGACTCCACCAACCTGGCTGTGTGCCTAGCTCCGTCCTTCCACCTCAACACCTGAAGCGAGAG
 AATTTCTCTCAAGGGTAAATGCAAAGAAAACAGAGTTTGGGCAAACCAGACCAGAAAGACCTGAATGAAA
 ACCTAGCGGCGACTCAAGGGCTGGCCACATGATTGCTGAGTGAAGAAGCTCTTCCAGGTCCTGAGGA
 AATGAGCCGGTCCGTAACCTCTACACTGAACAAGAGCTGAAGCCCTTACCCTGGAGGCCTTGGGACAC
 CTGAATAGTGACCAGCCTGCTGACTACAGACACTTCTCCAGGACTGTGTGGATGGCCTGTTAAGGAGG
 TCAAAGAGAAGTTCAAAGGCTGGGTGAGTACCCACCTCCGAACAGGCTGAGCTGTCTATAAGAAGGT
 CAGCGAAGGACCCCGTTAAGGCTTTGGAGTCAACTATCGAAGTCCCGCTGCACCCGAGGAGATCTTA
 AAGCGCCTTCTGAAGGAGCAACACCTCTGGGATGTGGACTGCTGACTCCAAGGTGATTGAAATCCTGG
 ACAGCCAGACTGAAATCTACCAATACGTCCAAAACAGCATGGCGCCCACTGCGCGGGACTACGTCGT
 ATTGAGGACCTGGAGGACTAATTACCCAGGGGGCCTGTGCTCTTACTCACCTCTGTGGATCAGAC
 CGGGCCCCCGTGGCGGGGTGAGGGTAAATGTGCTCCTGTCCAGATATTTGATTGAACCTGCGGGTCA
 GAAAATCCAAGCTTACCTACATGTGCAGAGCTGATTTAAGGGGCCACATGCCGGAGTGGTACTCAAATC
 TTTTGGACATTTGTGTGCAGCCGAAGTGGTAAAGATCCGAGACTCCTTCAGTAATCAGAACACTGAAAGC
 AAGGACACGAGATCTAGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001194941
- Insert Size:** 3381 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001194941.1](#), [NP_001181870.1](#)

RefSeq Size: 6266 bp

RefSeq ORF: 3381 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 (3) 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 (3) has a distinct N-terminus and is shorter than isoform 1.