

## Product datasheet for **RC222521**

### **DLC1 (NM\_024767) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DLC1 (NM_024767) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DLC1
Synonyms:	ARHGAP7; HP; p122-RhoGAP; STARD12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC222521 representing NM\_024767  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTGTAGCTATCAGAAAGAGAAGCTGGGAAGAACATGTGACCCACTGGATGGGACAGCCTTTTAATT  
 CTGATGATCGTAACACAGCATGTATCATGGACTAGTAGCTGACAGCTTGACAGGCAAGTATGGAAAAAGA  
 TGCAACTCTAAATGTGGACCGCAAAGAGAAGTGTGTTTCACTACCTGACTGCTGTCATGGATCAGAGCTG  
 AGAGATTTTCTGGGAGGCCAATGGGTCACTTTCAAAGGATGTGGACGAAAATGACAGCCATGAAGGTG  
 AAGATCAGTTTCTTCTGGAAGCCAGCACAGAACTAGTGCATGTTTCTGATGAGGATAACAAATGC  
 TGATTTATGCCTTACAGATGATAAACAGGTTTTAAATACCCAAGGGCAGAAAACATCAGGCCAACATATG  
 ATCCAAGGAGCAGGCTCCTTAGAAAAGGCACTGCCATCATACAAAGTAACCAAGTTTCTTAACCTCT  
 GGGGAATAGCTGGTGAAGTGAATTAGCACTGGTAAAAGAAAGTGGGAGAGAAAAGTTACTGACTCTAT  
 AAGTAAAAGCCTGGAGCTTTGCAATGAAATAAGCTTAAGTAAAATAAGATGCACCCAAAGTAAATGCA  
 GTGGATACTTTGAACGTGAAAGATATTGCACCTGAGAAAACAATTGCTTAACTCTGCTGTAATTGCTCAGC  
 AACGAAGGAAACCTGACCCCTAAAGATGAAAATGAAAAGAACCTGCAATGTAGTACAAAATGAGTT  
 CTTGGATACTCCTTGACAAAACAGAGGACTGCCATTATTAACAAACAGATTTTGGAAAGCTGCCTTCTGCG  
 CCTCCTTCTGCCCAATGGAAATGTGACGCTGAAAATGGCCTGGAGAAGAGTGGTTTTTCAACAACATCAA  
 ACAAAGTCCACCAAGGTCAGGCAGAAAGATGGCATGCAGTGTTTACAATTAAGGAGACCCTGGCCAC  
 CCAGGAACCCACAGATAACCAAGTCAGACTTCGTAAGAGAAAGGAAATAAGAGAAGATCGAGATAGGGCG  
 CGGCTGGACTCCATGGTCTGCTGATTATGAACTGGACCAGCTTGATCAGGACATAGAAAATGCCCTCA  
 GCACCAGCTCCTCCTCAGGCACACCAACAACTGCGGCGGCAGTTCCTGATCTGGAATCAGGATC  
 TGAAGTGGAGCAGATACCAATTCAGTAAATCAGACACGAGTAAATTTGCTTCTGACACTGAGTCCACG  
 GACCTCCCATCTTCCACTCCAGTAGCAATTCTGGAACCAACCAAGACTACGGCTATTCAAGGTATT  
 CAGAGAAGGAAAAGGCTGGTAAGTTGACATTTGGTTCTGTTTTCTGCCAATCTATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC222521 representing NM\_024767  
 Red=Cloning site Green=Tags(s)

MSVAIRKRSWEEHVTHWMGQPFNSDDRNTACHHGLVADSLQASMEKDATLNVDRKEKCVSLPDCCHGSEL  
 RDFPGRPMGHL SKDVDENDSHEGEDQFLSLEASTETLVHVSDEDNNADLCLTDDKQVLNTQGKTSQHM  
 IQGAGSLEKALPIIQSNQVSSNSWGIAGETELALVKEGGERKVTDSISKSLCNEISLSEIKDAPKVNA  
 VDTLNVKDIAPKQLLNSAVIAQRRKDPKPDENERSTCNVQNEFLDTPCTNRGLPLLKTDGFSCLLQ  
 PPSCPNGMSAENGLKSGFSQHQNKSPPKVKAEDGMQCLQLKETLATQEPDQVRLRKRKEIREDRDR  
 RLDSMVLILMKLDQLDQDIENALSTSSPSGPTNLRRHVPDLESGSESGADTISVNQTRVNLSSDTEST  
 DLPSSPTPVANSGTKPKTTAIQGISEKEKAGKLTWF CFLANLF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8063\\_e10.zip](https://cdn.origene.com/chromatograms/mk8063_e10.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_024767

**ORF Size:** 1389 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_024767.4](#)

**RefSeq Size:** 1975 bp

**RefSeq ORF:** 1392 bp

**Locus ID:** 10395

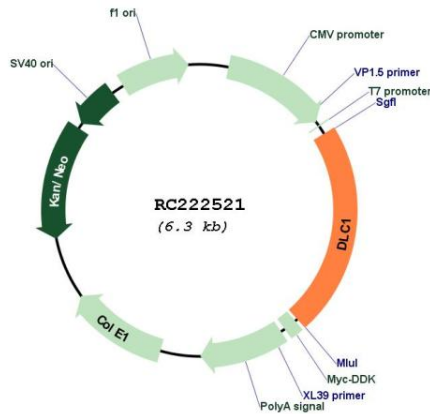
**UniProt ID:** [Q96QB1](#)

**Cytogenetics:** 8p22

MW: 50.7 kDa

**Gene Summary:** This gene encodes a GTPase-activating protein (GAP) that is a member of the rhoGAP family of proteins which play a role in the regulation of small GTP-binding proteins. GAP family proteins participate in signaling pathways that regulate cell processes involved in cytoskeletal changes. This gene functions as a tumor suppressor gene in a number of common cancers, including prostate, lung, colorectal, and breast cancers. Multiple transcript variants due to alternative promoters and alternative splicing have been found for this gene.[provided by RefSeq, Apr 2010]

### Product images:



Circular map for RC222521