

Product datasheet for **RC229057**

DLC1 (NM_001164271) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DLC1 (NM_001164271) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DLC1
Synonyms: ARHGAP7; HP; p122-RhoGAP; STARD12
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC229057 representing NM_001164271
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGCTAGAAATTAGTCTCATCGGAAACGAAGTGACGATTCAGACGAGGATGAGCCTTGTGCCATCA
 GTGGCAAATGGACTTTCCAAAGGGACAGCAAGAGGTGGTCCCGGCTTGAAGAGTTTGATGTCTTTTCTCC
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 GCCACGCGCCCCCAGCGAGGATGCTGCCACCCCCGGACTAACTCCGTATCAGCGTTTGTCTCTCCAG
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 TCAGTAACCAGAACACTGAAACCAAGACACCAATCTAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence:

>RC229057 representing NM_001164271
 Red=Cloning site Green=Tags(s)

MKLEISPHRKRSDSDSEDEPCAISGKWFQRDSKRWSRLEEFDFVSPKQDLVPGSPDDSHPKDGPSPGGT
 LMDLSEREQEVSSVRSLSSTGSLPSHAPPSEDAATPRTNSVISVCSNNLAGNDDSFGLSPKELSSF
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 NRINVPMVRKRSVSNSTQTSSSSSQSETSSAVSTPSPVTRTRSLSACNKRVMYLEGDFPNQSTFNNVV
 EQNFKNRESYPEDTVFYIPEDHKPGTFPKAL TNGSFSPSGNNGSVNWRGTFHGPGHISLRRENSDSPK
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 DSDSALDSVSPCSPSPKQIHLVDNDRTTPSDLSTGNSLNEPEEPSEIPERRDSGVGASLTRSNRHLR
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 SAYDVADMLKQYFRDLPEPLMTNKLSETFLQIYQYVPKDQRLQAIKAAIMLLPDENREVLQTLLEYFLSDV
 TAAVKENQMTPTNLAVCLAPSLFHLNLTRENSSPRVMQRKQSLGKPDQKDLNENLAATQGLAHMIAECK
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 AELSYKKVSEGPPLRLWRSVIEVPAPVEEILKRLLEQHLWDVLLDSKVIEILDSQTEIYQYVQNSMAP
 HPARDYVVLRTWRNLPGACALLLTSVDHDRAPVVGVRVNVLLSRYLIEPCGPGKSKLT YMCRVDLRGH
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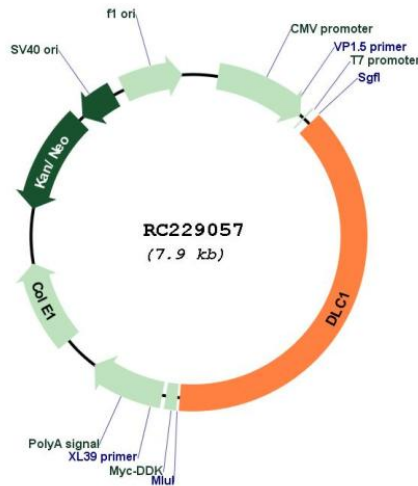
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001164271

ORF Size:

3051 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:	<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:	<u>NM_001164271.1</u> , <u>NP_001157743.1</u>
RefSeq Size:	5786 bp
RefSeq ORF:	3054 bp
Locus ID:	10395
UniProt ID:	<u>Q96QB1</u>
Cytogenetics:	8p22
MW:	114.2 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]