

## Product datasheet for **SC327692**

### DLC1 (NM\_001164271) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DLC1 (NM_001164271) Human Untagged Clone
Tag:	Tag Free
Symbol:	DLC1
Synonyms:	ARHGAP7; HP; p122-RhoGAP; STARD12
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001164271, the custom clone sequence may differ by one or more nucleotides

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ATGAAGCTAGAAATTAGTCCTCATCGGAAACGAAGTGACGATTACAGACGAGGATGAGCCT
TGTGCCATCAGTGGCAAATGGACTTTCCAAAGGGACAGCAAGAGGTGGTCCCGGCTTGAA
GAGTTTGTGTCTTTTCTCCAAAACAAGACCTGGTCCCTGGGTCCCGAGACGACTCCAC
CCGAAGGACGGCCCGAGCCCGGAGGCACGCTGATGGACCTCAGCGAGCGCCAGGAGGTG
TCTTCCGTCGCGAGCCTCAGCAGCACTGGCAGCCTCCCGAGCCACGCGCCCCCAGCGAG
GATGCTGCCACCCCGGACTAACTCCGTCATCAGCGTTTGCTCCTCCAGCAACTGGCA
GGCAATGACGACTCTTTGCGCAGCCTGCCCTCTCCCAAGGAACTGTCCAGCTTCAGCTTC
AGCATGAAAGGCCACGAAAAAACTGCCAAGTCCAAGACGCGCAGTCTGCTGAAACGGATG
GAGAGCCTGAAGCTCAAGAGCTCCCATCACAGCAAGCACAAAGCGCCCTCAAAGCTGGGG
TTGATCATCAGCGGGCCCATCTTGCAAGAGGGGATGGATGAGGAGAAGCTGAAGCAGCTC
AACTGCGTGGAGATCTCCGCCCTCAATGGCAACCGCATCAACGTCCCATGGTACGAAAG
AGGAGCGTTTTCCAACTCCACGCAGACCAGCAGCAGCAGCAGCCAGTCCGAGACCAGCAGC
GCGGTCAGCAGCCCGAGCCCTGTTACGAGGACCCGGAGCCTCAGTGCCTGCAACAAGCGG
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GAGCAGAACTTTAAGAACCAGGAGAGCTACCCAGAGGACACGGTGTCTACATCCCTGAA
GATCACAAGCCTGGCACTTTCCCAAAGCTCTACCAATGGCAGTTTCTCCCCCTCGGGG
AATAACGGCTCTGTGAAGTGGAGGACGGGAAGCTTCCACGGCCCTGGCCACATCAGCCTC
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ATGAGCAGCCGCTGAGCATCTACGACAACGTGCCGGGCTCCATCCTCTACTCCAGTTCA
GGGACCTGGCGGATCTGGAGAACGAGGACATCTTCCCGAGCTGGACGACATCCTCTAC
CACGTGAAGGGGATGCAGCGGATAGTCAATCAGTGGTCCGAGAAGTTTTCTGATGAGGGA
GATTCGGACTCAGCCCTGGACTCGGTCTCTCCCTGCCGCTCTCTCCAAAACAGATACAC
CTGGATGTGGACAACGACCGAACACACCCAGCGACCTGGACAGCACAGGCAACTCCCTG
AATGAACCGGAAGAGCCCTCCGAGATCCCGGAAAGAAGGGATTCTGGGGTTGGGGCTTCC
CTAACCAGGTCCAACAGGCACCGACTGAGATGGCACAGTTTCCAGAGCTCACATCGGCCA

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AGCCTCAACTCTGTATCACTACAGATTAAGTCCAGTCTGTGGCCAGATGAACCTGCTG
CAGAAATACTCACTCCTAAAGCTAACGGCCCTGCTGGAGAAATACACACCTTCTAACAAG
CATGGTTTTAGCTGGGCCGTGCCAAGTTCATGAAGAGGATCAAGGTTCCAGACTACAAG
GACCGGAGTGTGTTTGGGGTCCCACTGACGGTCAACGTGCAGCGCACAGGACAACCGTTG
CCTCAGAGCATCCAGCAGGCCATGCGATACCTCCGGAACCATTGTTTGGATCAGGTTGGG
CTCTTCAGAAAAATCGGGGGTCAAGTCCCGGATTGAGGCTCTGCCCAGATGAATGAAGG
GCCATAGACTGTGTCAACTACGAAGGACAGTCTGCTTATGACGTGCAGACATGCTGAAG
CAGTATTTTCGAGATCTTCTGAGCCACTAATGACGAACAACTCTCGGAAACCTTTCTA
CAGATCTACCAATATGTGCCAAGGACCAGCGCCTGCAGGCCATCAAGGCTGCCATCATG
CTGCTGCCTGACGAGAACCAGGGAGTTCTGCAGACCCTGCTTTATTTCTGAGCGATGTC
ACAGCAGCCGTA AAAAGAAAACCAGATGACCCCAACCACTGGCCGTGTGCTTAGCGCT
TCCCTCTCCATCTCAACACCCTGAAGAGAGAGAATTCCTCTCCAGGGTAATGCAAAGA
AAACAAAGTTTGGCAAACCAGATCAGAAAGATTTGAATGAAAACCTAGCTGCCACTCAA
GGGCTGGCCCATATGATCGCCGAGTCAAGAAGCTTTTCCAGGTTCCCGAGGAAATGAGC
CGATGTGCTAATTCCTATACCGAACAAGAGCTGAAGCCCCTCACTCTGGAAGCACTCGGG
CACCTGGGTAATGATGACTCAGCTGACTACCAACTTCTCCAGGACTGTGTGGATGGC
CTGTTTAAAGAAGTCAAAGAGAAGTTTAAAGGCTGGGTGACGCTACTCCACTTCGGAGCAG
GCTGAGCTGTCCTATAAGAAGGTGAGCGAAGGACCCCTCTGAGGCTTTGGAGGTCAGTC
ATTGAAGTCCCTGCTGTGCCAGAGGAAATCTTAAAGCGCCTACTTAAAGAACAGCACCTC
TGGGATGTAGACTGTTGGATTCAAAGTGATCGAAATTTGGACAGCCAACTGAAATT
TACCAGTATGTCCAAAACAGTATGGCACCTCATCTGCTCGAGACTACGTTGTTTTAAGA
ACCTGGAGGACTAATTTACCCAAAGGAGCCTGTGCCCTTTACTAACCTCTGTGGATCAC
GATCGCGCACCTGTGGTGGGTGAGGGTTAATGTGCTTTGTCCAGGATTTGATTGAA
CCCTGTGGGCCAGGAAAATCCAAACTCACCTACATGTGCAGAGTTGACTTAAGGGGCCAC
ATGCCAGAAATGGTACACAAAATCTTTTGGACATTTGTGTGACGCTGAAGTTGTAAGATC
CGGGATTCCTTCAGTAACCAAGAACTGAAACCAAGACACCAAACTTAGG

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001164271
- 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).
- 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\\_001164271.1](#), [NP\\_001157743.1](#)

RefSeq Size: 5786 bp

RefSeq ORF: 3054 bp

Locus ID: 10395

UniProt ID: [Q96QB1](#)

Cytogenetics: 8p22

**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]

Transcript Variant: This variant (4) contains a distinct 5' UTR, lacks a portion of the 5' coding region, and uses a downstream start codon, compared to variant 1. The encoded isoform (4) has a distinct N-terminus and is shorter than isoform 1. Variants 4, 7, 8, and 9 all encode the same isoform (4). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.