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Product datasheet for SC116320

DLC1 (NM_006094) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLC1 (NM_006094) Human Untagged Clone
Tag:	Tag Free
Symbol:	DLC1
Synonyms:	ARHGAP7; HP; p122-RhoGAP; STARD12
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF sequence for NM_006094 edited
ATGTGCAGAAAGAAGCCGGACACCATGATCCTAACACAAATTGAAGCCAAGGAAGCTTGT
GATTGGCTACGGGCAACTGGTTTCCCCCAGTATGCACAGCTTTATGAAGATTTCCTGTTC
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GACTCGGTCTCTCCCTGCCCGTCCTCTCCAAAACAGATACACCTGGATGTGGACAACGAC

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CGAACCACACCCAGCGACCTGGACAGCACAGGCAACTCCCTGAATGAACCGGAAGAGCCC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006094 unedited
NGGGTGTCAAAAATTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCCGAG
CGAGGGCGCTTCGCTCCCAGCCAGGACATGGCCGCACCTCTCCGCATCAGGAGCGCCGGC
TCACGGACTTCTCGCCCAACTCCCTGAGCGCTCCCTCGTTTCGATCTTTAGAAAACCCCG
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CTGATGGACCTCAGCGAGCGCCAGGAGGTGTCTTCCGTCCGCAGCCTCAGCAGCACTGGC
AGCCTNCCCAGCCACGCGCCCCCCAGCGAGGATGCTGCCACCCCNCGGACTAACTNCGTC
ATCAGCGTTTGCTCCTCCAGCACTC

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_006094 unedited
TACCGCGGCACGCAATCTAGTGTCGAGTTTTTTTTTTTTTTTTTTGCACAGTCTTACAT
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ATCAAATTGCTATAGTCAATTCCTACACTCCAGCTTGTAGTTTTCTTTGTTTCAGGATTA
GACACAGAACCCATTCTTCAAGGACTGGCAAAAGTTCTAGAAACAAACACCATGGTGGTG
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CACCACAGGTGCGCGATCGTGATCCACAGAGGTTAGTAAAAGGGCACAGGCTCCTTTGGG
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CACAGCAGGGACTTCNATGACTGACCCTCCAAGCCTCAGAGGGGGTCCTTCGCTCACCTT
CTTATANGACANGCTCACCTGCTCCGAGTGGAGTACCTGACCAGCCTTTAAACTCTCTTG
ACTTCTTAACAGCCACTCCACAGCCTGGAGGAGTGTTGTAGTCACCTGATTATCATACCC
AGGGCCGATGCTCCAGATGAGGGGCTCACCTCTGTCCGATAGGATACGAATCGGCTATTC
CTGGGACCTGAAAACTTTGCCTCGCGATCTATGGCAGCCTGATGG
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Restriction Sites: NotI-NotI

ACCN: NM_006094

Insert Size: 3900 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_006094.3, NP_006085.2

RefSeq Size: 6044 bp

RefSeq ORF: 3276 bp

Locus ID: 10395

UniProt ID: Q96QB1

Cytogenetics: 8p22

Domains: RhoGAP, START

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 (2) contains a distinct 5' UTR, lacks a portion of the 5' coding region, and represents use of an alternate promoter, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Variant 2 represents the predominant transcript. 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.