

Product datasheet for **RG213320**

DLC1 (NM_006094) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLC1 (NM_006094) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DLC1
Synonyms:	ARHGAP7; HP; p122-RhoGAP; STARD12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213320 representing NM_006094 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCAGAAAGAAGCCGGACACCATGATCCTAACACAAATTGAAGCCAAGGAAGCTTGTGATTGGCTAC
GGGCAACTGGTTTCCCCAGTATGCACAGCTTTATGAAGATTTCTGTTCCCATCGATATTTCTTGGT
CAAGAGAGAGCATGATTTTTGGACAGAGATGCCATTGAGGCTCTATGCAGGCGTCTAAATACTTTAAAC
AAATGTGCGGTGATGAAGCTAGAAATTAGTCCTCATCGGAAACGAAGTGACGATTCAGACGAGGATGAGC
CTTGTGCCATCAGTGGCAAATGGACTTTCAAAGGGACAGCAAGAGGTGGTCCCGCTTGAAGAGTTTGA
TGTCTTTTCTCCAAAACAAGACCTGGTCCCTGGGTCCCAAGACGACTCCCAACCGAAGGACGGCCCCAGC
CCCGGAGGCACGCTGATGGACCTCAGCGAGCGCCAGGAGGTGCTTCCGTCCGCAGCCTCAGCAGCACTG
GCAGCCTCCCCAGCCACGCGCCCCCAGCGAGGATGCTGCCACCCCCGGACTAACTCCGTATCAGCGT
TTGCTCTCCAGCAACTGGCAGGCAATGACGACTCTTTCGGCAGCCTGCCCTCTCCAAGGAACTGTCC
AGCTTCAGCTTCAGCATGAAAGGCCACGAAAAAAGTCCCAAGTCCAAGACGCGCAGTCTGCTGAAACGGA
TGGAGAGCCTGAAGCTCAAGAGCTCCCATCACAGCAAGCACAAGCGCCCTCAAAGCTGGGGTTGATCAT
CAGCGGGCCCATCTTGAAGAGGGGATGGATGAGGAGAAGCTGAAGCAGCTCAACTGCGTGGAGATCTCC
GCCCTCAATGGCAACCGCATCAACGTCCCATGGTACGAAAGAGGAGCGTTTCCAACCTCCACGACACCA
GCAGCAGCAGCAGCCAGTCGGAGACCAGCAGCGGTCAGCACGCCAGCCCTGTTACGAGGACCCGGAG
CCTCAGTGCGTGCAACAAGCGGGTGGGCATGTAAGTACTTAGAGGGCTTCGATCCTTTCAATCAGTCAACATTT
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AAGATCACAAGCCTGGCACTTTCCCAAAGCTCTACCAATGGCAGTTTCTCCCTCGGGGAATAACGG
CTCTGTGAACTGGAGGACGGGAAGCTTCCACGGCCCTGGCCACATCAGCCTCAGGAGGAAAACAGTAGC
GACAGCCCAAGGAACTGAAGAGACGCAATTCTCCAGCTCCATGAGCAGCCGCTGAGCATCTACGACA
ACGTGCCGGCTCCATCCTACTCCAGTTCCAGGGACCTGGCGGATCTGGAGAACGAGGACATCTTCCC
CGAGCTGGACGACATCCTTACCAGTGAAGGGATGCAGCGGATAGTCAATCAGTGGTCCGAGAAGTTT



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TCTGATGAGGGAGATTCCGACTCAGCCCTGGACTCGGTCTCTCCCTGCCCGTCTCTCCAAAACAGATAC
 ACCTGGATGTGGACAACGACCGAACCCACACCCAGCGACCTGGACAGCACAGGCAACTCCCTGAATGAACC
 GGAAGAGCCCTCCGAGATCCCGGAAAGAAGGGATTCTGGGGTTGGGGCTTCCCTAACAGGTCCAACAGG
 CACCGACTGAGATGGCACAGTTTCCAGAGCTCACATCGGCCAAGCCTCAACTCTGTATCACTACAGATTA
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 CCAGACTACAAGGACCGGAGTGTGTTGGGGTCCCCTGACGGTCAACGTGCAGCGCACAGGACAACCGT
 TGCTCAGAGCATCCAGCAGGCCATGCGATACCTCCGGAACCATTTGTTGGATCAGGTTGGGCTCTTCAG
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 CCTCCAGGACTGTGTGGATGGCCTGTTTAAAGAAGTCAAAGAGAAGTTTAAAGGCTGGGTGAGTACTCC
 ACTTCGGAGCAGGCTGAGCTGTCTATAAGAAGGTGAGCGAAGGACCCCTCTGAGGCTTTGGAGGTGAG
 TCATTGAAGTCCCTGCTGTGCCAGAGGAAATCTTAAAGCGCTACTTAAAGAACAGCACCTCTGGGATGT
 AGACCTGTTGGATTCAAAGTATCGAAATCTGGACAGCCAACTGAAATTTACCAGTATGTCCAAAAC
 AGTATGGCACCTCATCTGCTCGAGACTACGTTGTTTAAAGAACCTGGAGGACTAATTTACCCAAAGGAG
 CCTGTGCCCTTTACTAACCTCTGTGGATCAGCATCGCGCACCTGTGGTGGGTGTGAGGGTAAATGTGCT
 CTTGTCCAGGATTTGATTGAACCTGTGGGCCAGGAAATCCAACTCACCTACATGTGCAGAGATTTGAC
 TTAAGGGGCCACATGCCAGAATGGTACACAAAATCTTTTGGACATTTGTGTGACGCTGAAGTTGTAAGA
 TCCGGGATTCCTCAGTAACCAGAACACTGAAACCAAAGACACCAATCTAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213320 representing NM_006094
 Red=Cloning site Green=Tags(s)

MCRKPKDPTMILTQIEAKEACDWLRATGFPQYAQLYEDFLFPIDISLVKREHDFLDRDAIEALCRRNLNTLN
 KCAVMKLEISPHRKRSDSDSEDEPCAISGKWFQRDSKRWSRLEEFDFVSPKQDLVPGSPDDSHPKDGP
 PGGTLMDLSERQEVSSVRSLSSTGSLPSHAPPSEDAATPRTNSVIVSVCSSNLAGNDDSFGLSPSPKELS
 SFSFSMKGHEKTAKSKTRSLKRMESLKLKSSHHSKHKAPSKLGLIISGPILQEGMDEEKLKQLNCVEIS
 ALNNGRINVPMVRKRSVSNSTQTSSSSSQSETSSAVSTSPVTRTRSLSACNKRVMYLEGDFPNQSTF
 NNVMEQNFKNRESYPEDTVFYIPEDHKPGTFPKALTNGSFSPSGNNGSVNWRTGFSFHGPGHISLRENS
 DSPKELKRRNSSSSMSSRLSIYDNVPGSILYSSGDLADLENEIDFPELDDILYHVKGMRIVNQWSEKF
 SDEGSDSALDSVSPCSPKQIHLDVDNDRTPSDLDSTGNSLNEPEEPSEIPERRDSGVGASLTRSNR
 HRLRWHSFQSSHRPSLNSVSLQINCQSV AQMNLQKYSLLKLTALLEKYTPSNKHGFSWAVPKFMKRIKV
 PDYKDRSVFVGPLTVNVQRTGQPLPQSIQQAMRYLRNHCLDQVGLFRKSGVKSRIQALRQMNEGAIDCVN
 YEQSAYDVADMLKQYFRDLPEPLMTNKLSETFLQIYQYVPKDQRLQAIKAAIMLLPDENREVLQTLFY
 LSDVTA AVKENQMTPTNLAVCLAPSLFHLNLTKRENSSPRVMQRKQSLGKPDQKDLNENLAATQGLAHMI
 AECKKLFQVPEEMSRCRNSYTEQELKPLTLEALGHLGNDDSDYQHFLQDCVDGLFKEVKEKFKGWVSY
 TSEQAELSYKKVSEGPPLRLWRSVIEVPAVPEEILKRLKQHLWDVLLDQSKVIEILDSQTEIYQYVQN
 SMAPHPARDYVVLRTWRNLPGACALLTSDVHDRAPVVGVRVNVLLSRYLIEPCGPGKSKLTYMCRVD
 LRGHMPEWYTKSFGHLCAAEVVKIRDSFSNQTETKDTKSR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006094

ORF Size: 3273 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_006094.5](#)

RefSeq Size: 6044 bp

RefSeq ORF: 3276 bp

Locus ID: 10395

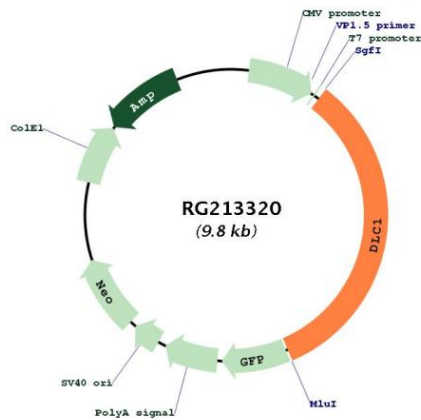
UniProt ID: [Q96QB1](#)

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]

Product images:



Circular map for RG213320