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Product datasheet for RC229009

DBC2 (RHOBTB2) (NM_001160036) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DBC2 (RHOBTB2) (NM_001160036) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DBC2
Synonyms:	DBC2; DEE64; EIEE64; p83
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC229009 representing NM_001160036
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAAGCCTGGAGAAAAGGCCCCGATGGCCCCCAGAAGACCTCTTCAGACAGCATGTCCCGTTTAATGG
ATTCTGACATGGATTATGAAAGGCCAAACGTAGAGACCATCAAGTGCGTTGTGGTGGGGGACAACGCCGT
GGGTAAGACCAGGCTCATCTGTGCCCGCGCTTGCAATGCCACCCTCACCCAGTACCAGCTGCTGGCCACG
CATGTGCCCACAGTATGGGCCATCGACCAATATCGTGTGTGCCAGGAGGTGCTGGAACGCTCCCGAGACG
TGGTAGATGATGTCAGCGTCTCTCTGCGCCTCTGGGACACCTTTGGAGACCACCACAAAGACCGTCGCTT
TGCTTATGGGAGATCTGATGTGGTGGTTCTGTGCTTCTCCATTGCCAACCCCAATTCCCTCCACCATGTC
AAGACCATGTGGTACCCAGAAATCAAGCACTTCTGCCCCCGAGCACCTGTCATCTTGGTGGGCTGCCAGT
TGGACCTGCGCTACGCTGACCTGGAGGCTGTCAACAGGGCTAGGCGACCCTTGGCTAGGCCCATCAAACC
TAATGAAATCCTGCCCCCAGAGAAGGGTCGGGAGGTGGCCAAGGAGCTGGGCATCCCCTACTATGAGACC
AGCGTGGTGGCCCAGTTCGGCATCAAGGACGTCTTTGACAACGCCATCCGAGCTGCACTCATCTCCCGCC
GCCACCTGCAGTTCTGGAAGTCCCACCTCCGCAATGTGCAGCGGCCTCTGCTGCAGGCACCCTTCCTACC
CCCCAAGCCACCGCCCCCGATCATCGTGGTGCCCGACCCTCCCTCCAGCAGCGAGGAGTGCCCCGCCCAC
CTCCTGGAGGACCCGCTCTGCGCGGACGTCATCCTGGTGCTGCAGGAGCGGGTGCGCATCTTTGCCCACA
AGATCTACCTCTCCACCTCTTCCTCCAAGTTCTATGACCTGTTCCTCATGGACCTGAGTGAGGGGGAGCT
GGGGGGCCCCTCGGAGCCAGGGGGCACCCACCCAGAGGACCACCAGGGCCACTCTGATCAACACCACCAC
CATCACCACCACCACCATGGGCGAGACTTCCTGCTCCGAGCAGCCAGCTTTGACGTGTGCGAGAGCGTGG
ATGAGGCTGGGGGCTCCGGTCCTGCTGGCCTCCGTGCTTCCACCAGCGACGGGATCTTACGGGGCAACGG
AACAGGGTACCTACCGGGCAGGGGTCGTGTGCTGTCTTCCTGGAGCCGAGCTTTTGTGAGCATCCAGGAA
GAGATGGCAGAAGATCCTCTCACCTACAAATCCCGGCTGATGGTGGTGGTGAAGATGGACAGTTCCATCC
AGCCGGGGCCCTTCCGGGCTGTCCTCAAGTACCTGTACACGGGGGAGCTAGATGAGAACGAGCGTGACCT
CATGCACATTGCCCACATTGCTGAGCTGCTCGAGGTCTTTGATCTGCGCATGATGGTGGCCAACATTCTC
AACAATGAGGCCTTCATGAACCAGGAGATCACCAAGGCCTTCCACGTCCGCCGGACCAACCGGGTTAAGG
AGTGCTTGGCAAAAGGCACCTTCTCAGATGTGACCTTCATCCTGGATGATGGCACCATCAGCGCCCACAA
GCCCCTGTTGATTTCCAGCTGTGACTGGATGGCTGCCATGTTTGGGGGGCCATTTGTGGAGAGCTCCACC
CGGGAGGTGGTGTTTCCCTACACAAGCAAGAGCTGCATGCGGGCCGTGCTGGAATACCTCTACACCGGCA
TGTTCACCTCCAGCCCCGACCTGGATGACATGAAGCTCATCATTCTAGCCAACCGCCTCTGCCTGCCACA
CCTGGTTGCCCTCACAGAGCAGTACACAGTGACCGGGCTGATGGAAGCGACCCAGATGATGGTGGACATC
GATGGGGACGTCCTTGTGTTCCTGGAACTGGCTCAGTTCCACTGTGCGTACCAGCTGGCCGACTGGTGTC
TCCACCACATCTGCACCAACTACAACAACGTGTGCCGCAAGTTCCCCCGAGACATGAAGGCCATGTCCCC
AGAAAACCAGGAGTATTTCGAGAAGCATCGGTGGCCACCTGTGTGGTACCTGAAGGAGGAAGATCATTAC
CAGCGGGCACGGAAGGAGCGTGAGAAGGAGGACTACCTCCACCTCAAGCGGCAGCCCAAACGGCGTTGGC
TCTTCTGGAACAGTCCATCCTCCCCGTCTTCCTCGGCAGCCTCCTCCTCATCCCCATCTTCCTCCTCGGC
TGTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

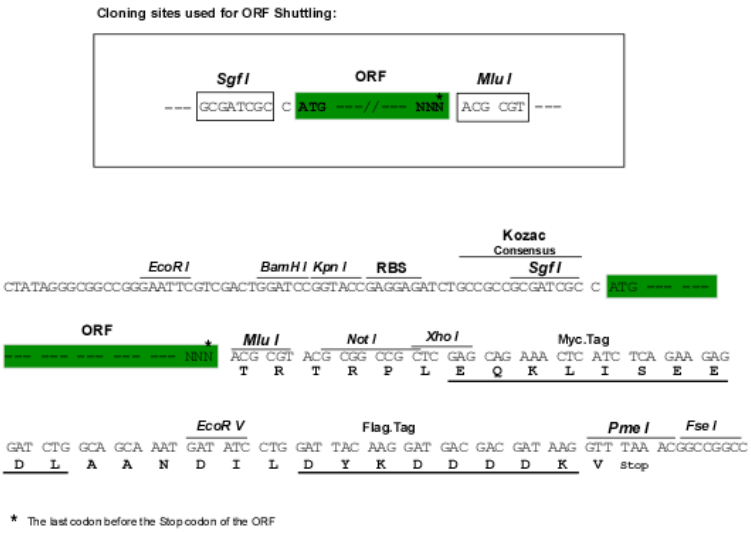
>RC229009 representing NM_001160036
Red=Cloning site Green=Tags(s)

MQAWRKGPDGPQKTSSDSMSRLMDSDMDYERPNVETIKCVVVGDNAVGKTRLICARACNATLTQYQLLAT
HVPTVWAIDQYRVCQEVLERSRDVVDDVSVSLRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNSLHHV
KTMWYPEIKHFCPRAPVILVGCQLDLRYADLEAVNRARRPLARPIKPNEILPPEKGREVAKELGIPYYET
SVVAQFGIKDVFDNAIRAALISRRHLQFWKSHLRNVQRPLLQAPFLPPKPPPPIIVVPDPPSSSEECPAH
LLEDPLCADVILVLQERVRIFAHKIYLSTSSSKFYDLFLMDLSEGELGGPSEPGGTHPEDHQGHSDQHHH
HHHHHHGRDFLLRAASFDVCESVDEAGGSGPAGLRASTSDGILRGNGTGYLPGRGRVLSSWSRAFVSIQE
EMAEDPLTYKSRLMVVVKMDSSIQPGPFRAVLKYLYTGELDENERDLMHIAHIAELLEVFDLRMMVANIL
NNEAFMNQEITKAFHVRRTNRVKECLAKGTFSDVTFILDDGTISAHKPLLISSCDWMAAMFGGPFVESST
REVVFPYTSKSCMRAVLEYLYTGMFTSSPDLDDMKLIILANRLCLPHLVALTEQYTVTGLMEATQMMVDI
DGDVLVFLELAQFHCAYQLADWCLHHICTNYNNVCRKFPRDMKAMSPENQEYFEKHRWPPVWYLKEEDHY
QRARKEREKEDYLHLKRQPKRRWLFWNSPSSPSSSAASSSSPSSSSAVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

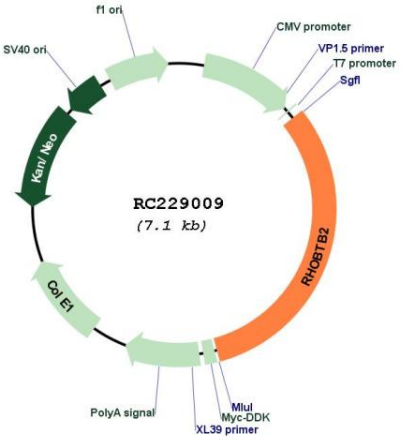


ACCN: NM_001160036

ORF Size: 2247 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_001160036.2
RefSeq Size:	5261 bp
RefSeq ORF:	2250 bp
Locus ID:	23221
UniProt ID:	Q9BYZ6
Cytogenetics:	8p21.3
Protein Pathways:	Ubiquitin mediated proteolysis
MW:	85.1 kDa
Gene Summary:	The protein encoded by this gene is a small Rho GTPase and a candidate tumor suppressor. The encoded protein interacts with the cullin-3 protein, a ubiquitin E3 ligase necessary for mitotic cell division. This protein inhibits the growth and spread of some types of breast cancer. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RC229009