

Product datasheet for **RG228564**

DBC2 (RHOBTB2) (NM_001160037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DBC2 (RHOBTB2) (NM_001160037) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DBC2
Synonyms:	DBC2; DEE64; EIEE64; p83
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG228564 representing NM_001160037
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAGCGCGGTCCCGTTAATGGATTCTGACATGGATTATGAAAGGCCAAACGTAGAGACCATCAAGT
GGTTGTGGTGGGGACAAACGCCGTGGTAAGACCAGGCTCATCTGTGCCGCGCTTGAATGCCACCC
CAGGAGTACCAGCTGCTGGCCACGCATGTGCCACAGTATGGCCATCGACCAATATCGTGTGTGCCAG
GAGGTGCTGGAACGCTCCCGAGACGTGGTAGATGATGTCAGCGTCTCTGCGCCTCTGGGACACCTTTG
GAGACCACCACAAAGACCGTCGCTTTGCTTATGGGAGATCTGATGTGGTGGTTCTGTGCTTCTCCATTGC
CAACCCCAATTCCTCCACCATGTCAAGACCATGTGGTACCCAGAAATCAAGCACTTCTGCCCCGAGCA
CCTGTCATCTTGGTGGGCTGCCAGTTGGACCTGCGCTACGCTGACCTGGAGGCTGTCAACAGGGCTAGGC
GACCTTGGCTAGGCCATCAAACCTAATGAAATCCTGCCCCAGAGAAGGTCGGGAGGTGGCCAAAGGA
GCTGGGCATCCCCTACTATGAGACCAGCGTGGTGGCCAGTTCGGCATCAAGACGTCTTTGACAACGCC
ATCCGAGCTGCACTCATCTCCCGCCGCCACCTGCAGTTCTGGAAGTCCCACCTCCGCAATGTGCAGCGGC
CTCTGCTGCAGGCACCTTCTACCCCCAAGCCACCGCCCCGATCATCGTGGTGGCCGACCTCCCTC
CAGCAGCGAGGAGTGCCCGCCACCTCCTGGAGGACCGCTCTGCGCGGACGTATCCTGGTGTGCGAG
GAGCGGTGCGCATCTTTGCCACAAGATCTACCTCTCCACCTTCTCCTCAAGTTCTATGACCTGTTCC
TCATGGACCTGAGTGAGGGGAGCTGGGGGGCCCTCGGAGCCAGGGGGCACCCACCCAGAGGACCACCA
GGGCCACTCTGATCAACACCACCACCATACCACCACCACCATGGGCGAGACTTCTGCTCCGAGCAGCC
AGCTTTGACGTGTGCGAGAGCGTGGATGAGGCTGGGGCTCCGGTCTGCTGGCCTCCGTGCTTCCACCA
GCGAGGGATCTTACGGGGCAACGGAACAGGGTACCTACCGGGCAGGGGTGCTGTGCTGTCTTCCACCA
CCGAGCTTTTGTGAGCATCCAGGAAGAGATGGCAGAAAGATCCTCTCACCTACAAATCCCGGCTGATGGTG
GTGGTGAAGATGGACAGTTCCATCCAGCCGGGGCCTTCCGGGCTGTCTCAAGTACCTGTACACGGGG
AGCTAGATGAGAACGAGCGTGACCTCATGCACATTGCCACATTGCTGAGCTGCTCGAGGTCTTTGATCT
GCGCATGATGGTGGCCAACATTCTCAACAATGAGGCCTTCATGAACCAGGAGATCACCAAGGCCTCCAC
GTCCGCCGACCAACCGGTTAAGGAGTGTGGCAAAGGCACCTTCTCAGATGTGACCTTCATCCTGG
ATGATGGCACCATCAGCGCCACAAGCCCCTGTTGATTTCCAGCTGTGACTGGATGGCTGCCATGTTTGG
GGGGCATTGTGGAGAGCTCCACCCGGGAGTGGTGTTCCTACACAAGCAAGAGCTGCATGCGGGCC
GTGCTGGAATACCTCTACACCGCATGTTACCTCCAGCCCCGACCTGGATGACATGAAGCTCATATTC
TAGCCAACCGCCTCTGCCTGCCACACCTGGTGCCTCACAGAGCAGTACACAGTGACCGGGCTGATGGA
AGCGACCCAGATGATGGTGGACATCGATGGGGACGTCTTGTGTTCTGGAAGTGGCTCAGTTCCTACTGT
GCGTACCAGCTGGCCGACTGGTGTCTCCACCACATCTGCACCAACTACAACAACGTGTGCCGCAAGTTC
CCCAGACATGAAGGCCATGTCCCAGAAAACCAGGAGTATTTGAGAAGCATCGGTGGCCACCTGTGTG
GTACCTGAAGGAGGAAGATCATTACCAGCGGCACGGAAGGAGCGTGAGAAGGAGGACTACCTCCACCTC
AAGCGGACGCCAAACGGCGTTGGCTCTTCTGGAACAGTCCATCCTCCCCGTCTTCTCGGCAGCCTCCT
CCTCATCCCCATTTCTCCTCGGCTGTGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228564 representing NM_001160037
Red=Cloning site Green=Tags(s)

```

MKARSRLMDSMDYERPNETIKCVVVDNAVGTKRLICARACNATLTQYQLLATHVPTVWVIDQYRVCQ
EVLERSRDVDDVSVSLRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNLSLHHVKTMMWPEIKHFCPRA
PVILVGCQLDLRYADLEAVNRARRPLARPIKNEILPPEKGREVAKELGIPYYETSVVAQFGIKDVF DNA
IRAAALISRRHLQFWKSHLRNVQRPLLQAPFLPPKPPPIIVVPDPPSSSEECPAHLLLEDPLCADVILVLQ
ERVRIFAHKIYLLSTSSSKFYDLFLMDLSEGLGGPSEPGGTHPEDHQGHSDQHSHHHHHHHHGRDFLLRAA
SFDVCEVDEAGGSGPAGLRASTSDGILRGNGTYLPGRGRVLSWSRAFVSIQEEMAEDPLTYKSRLMV
VVKMSSIQPGPFRAVLKYLTYGELDENERDLMHIAHIAELLEVFDLRMMVANILNNEAFMNQEITKAFH
VRRTRNRYECKLAGTFSVDVTFILDDGTISAHKPLLISSCDWMAAMFGGPFVESSTREVVFPYTSKCMRA
VLELYTYGMFTSSPDLDMMKLIILANRLCLPHLVALTEQYTVTGLMEATQMMVDIDGDVLFLELAQFHC
AYQLADWCLHHICTNYNNVCRKFPMDMKAMSPENQYEFKHRWPPVWYLKEEDHYQRARKEREKEDYLHL
KRQPKRRWLFWNSPSSPSSSAASSSSPSSSSAVV
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001160037

ORF Size: 2202 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_001160037.2](#)

RefSeq Size: 4957 bp

RefSeq ORF: 2205 bp

Locus ID: 23221

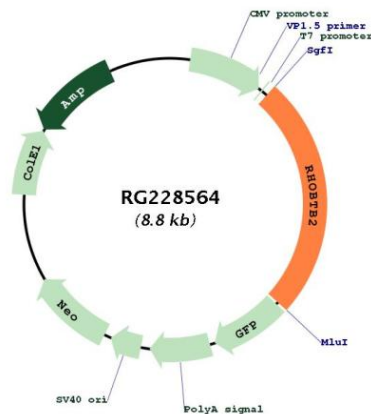
UniProt ID: [Q9BYZ6](#)

Cytogenetics: 8p21.3

Protein Pathways: Ubiquitin mediated proteolysis

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 RG228564