

## Product datasheet for **SC327644**

### **DBC2 (RHOBTB2) (NM\_001160036) Human Untagged Clone**

#### **Product data:**

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



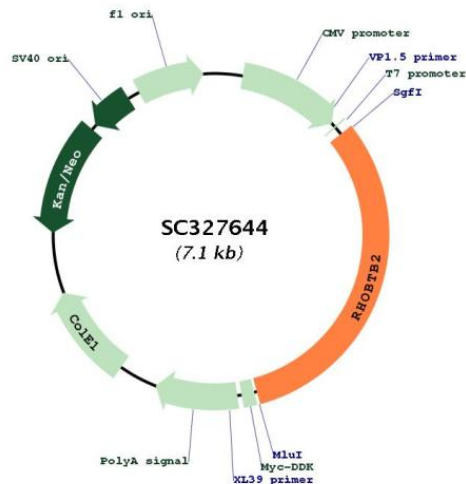
[View online »](#)

Fully Sequenced ORF: >SC327644 representing NM\_001160036.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAAGCCTGGAGAAAAGGCCCGATGGCCCCAGAAGACCTCTTCAGACAGCATGTCCCGTTAATG
GATTCTGACATGGATTATGAAAGGCCAAACGTAGAGACCATCAAGTGCCTTGTGGTGGGGACAACGCC
GTGGGTAAGACCAGGCTCATCTGTGCCCGCCTTGCAATGCCACCTCACCCAGTACCAGCTGCTGGCC
ACGCATGTGCCACAGTATGGGCATCGACCAATATCGTGTGTGCCAGGAGGTGTGGAACGCTCCCGA
GACGTGGTAGATGATGTGACGCTCTCTCTGCGCCTCTGGGACACCTTTGGAGACCACCACAAAGACCGT
CGCTTTGCTTATGGGAGATCTGATGTGGTGGTTCTGTGCTTCTCCATTGCCAACCCCAATTCCTCCAC
CATGTCAAGACCATGTGGTACCCAGAAATCAAGCACTTCTGCCCCGAGCACCTGTCATCTTGGTGGGC
TGCCAGTTGGACCTGCGCTACGCTGACCTGGAGGCTGTCAACAGGGCTAGGCGACCTTGGCTAGGCC
ATCAAACCTAATGAAATCTGCCCCAGAGAAGGGTGGGAGGTGGCCAAGGAGCTGGGCATCCCCTAC
TATGAGACCAGCGTGGTGGCCAGTTTCGGCATCAAGGACGTCTTTGACAACGCCATCCGAGCTGCACTC
ATCTCCCGCCGCCACCTGCAATTCGAAAGTCCCACCTCCGCAATGTGCAGCGGCCCTCTGCTGCAGGCA
CCCTTCTACCCCAAGCCACCGCCCGGATCATCGTGGTGGCCGACCTCCCTCCAGCAGCGAGGAG
TGCCCCGCCACCTCTGGAGGACCCGCTCTGCGCGGACGTATCCTGGTGTGCAGGAGCGGGTGGC
ATCTTTGCCACAAGATCTACCTCTCCACCTTCTCCTCAAGTTCTATGACCTGTTCTCATGGACCTG
AGTGAGGGGGAGCTGGGGGGCCCTCGGAGCCAGGGGGCACCCACCCAGAGGACCACCAGGGCCACTCT
GATCAACACCACCACCATCACCACCACCACCATGGGCGAGACTTCTGCTCCGAGCAGCCAGCTTTGAC
GTGTGCGAGAGCGTGGATGAGGCTGGGGCTCCGGTCTGCTGGCTCCGTGCTTCCACCAGCGAGCGG
ATCTTACGGGCAACGGAACAGGTACCTACCGGGCAGGGGTGCTGTGCTTCTTCCAGCGGAGCT
TTTGTGAGCATCCAGGAAGAGATGGCAGAAGATCCTCTCACCTACAAATCCCGGCTGATGGTGGTGG
AAGATGGACAGTTCCATCCAGCCGGGGCCCTTCCGGGCTGTCTCAAGTACCTGTACACGGGGAGCTA
GATGAGAACGAGCGTGACCTCATGCACATTGCCACATTGCTGAGCTGCTCGAGGCTTTTGATCTGCGC
ATGATGGTGGCCAACATTCTCAACAATGAGGCCTTCATGAACCAGGAGATCACCAAGGCCTTCCACGTC
CGCCGGACCAACCGGTTAAGGAGTGTGGCAAAGGCACCTTCTCAGATGTGACCTTCATCCTGGAT
GATGGCACCATCAGCGCCACAAGCCCTGTTGATTTCCAGCTGTGACTGGATGGCTGCCATGTTTGGG
GGGCCATTTGTGAGAGCTCCACCCGGGAGGTGGTGTTCCTACACAAGCAAGAGCTGCATGCGGGCC
GTGCTGGAATACCTCTACACCGCATGTTACCTCCAGCCCCGACCTGGATGACATGAAGCTCATCATT
CTAGCCAACCGCCTCTGCCTGCCACACCTGGTTGCCCTCACAGAGCAGTACACAGTGACCGGGCTGATG
GAAGCGACCCAGATGATGGTGGACATCGATGGGACGTCCTTGTGTTCTTGGAACTGGCTCAGTCCAC
TGTGCGTACCAGCTGGCCGACTGGTGTCTCCACCACATCTGCACCAACTACAACAACGTGTGCCGAAG
TTCCCCGAGACATGAAGGCCATGTCCCCAGAAAACCAGGAGATTTTCGAGAAGCATCGGTGGCCACCT
GTGTGGTACCTGAAGGAGGAAGATCATTACCAGCGGCACGGAAGGAGCGTGAGAAGGAGGACTACCTC
CACCTCAAGCGGCAGCCAAACGGCGTTGGCTCTTCTGGAACAGTCCATCCTCCCCGTCTTCTCGGCA
CCCTCCTCCTCATCCCCATCTTCTCCTCGGCTGTGGTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: SgfI-MluI

## Plasmid Map:



ACCN: NM\_001160036

Insert Size: 2250 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](mailto: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 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\\_001160036.1](#)

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]  
Transcript Variant: This variant (1) encodes the longest isoform (1).