

## Product datasheet for **SC304248**

### **DBC2 (RHOBTB2) (NM\_015178) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DBC2 (RHOBTB2) (NM_015178) Human Untagged Clone
Tag:	Tag Free
Symbol:	DBC2
Synonyms:	DBC2; DEE64; EIEE64; p83
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_015178, the custom clone sequence may differ by one or more nucleotides

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ATGGATTCTGACATGGATTATGAAAGGCCAAACGTAGAGACCATCAAGTGC GTTGTGGTG
GGGGACAACGCCGTGGGTAAGACCAGGCTCATCTGTGCCCGCGCTTGCAATGCCACCCCTC
ACCCAGTACCAGTGTGCTGGCCACGCATGTGCCACAGTATGGGCCATCGACCAATATCGT
GTGTGCCAGGAGGTGCTGGAACGCTCCCGAGACGTGGTAGATGATGTCAGCGTCTCTCTG
CGCCTCTGGGACACCTTTGGAGACCACCACAAAGACCGTCGCTTTGCTTATGGGAGATCT
GATGTGGTGGTTCTGTGCTTCTCCATTGCCAACCCAATTCCCTCCACCATGTCAAGACC
ATGTGGTACCCAGAAATCAAGCACTTCTGCCCCGAGCACCTGTTCATCTTGGTGGGCTGC
CAGTTGGACCTGCGCTACGCTGACCTGGAGGCTGTCAACAGGGCTAGGCGACCCCTGGCT
AGGCCCATCAAACCTAATGAAATCCTGCCCCAGAGAAGGGTCGGGAGGTGGCAAGGAG
CTGGGCATCCCCTACTATGAGACCAGCGTGGTGGCCAGTTCGGCATCAAGGACGCTTTT
GACAACGCCATCCGAGCTGCACTCATCTCCCGCCGCCACCTGCAGTTCTGGAAGTCCAC
CTCCGCAATGTGCAGCGCCTCTGCTGCAGGCACCTTCTACCCCCCAAGCCACCGCCC
CCGATCATCGTGGTGCCCGACCTCCCTCCAGCAGCGAGGAGTGCCTCCGACCTCCTG
GAGGACCCGCTCTGCGCGGACGTATCCTGGTGTGTCAGGAGCGGGTGCAGCATCTTTGCC
CACAAGATCTACCTCTCCACCTTCTCTCCAAGTTCTATGACCTGTTCTCATGGACCTG
AGTGAGGGGGAGCTGGGGGGCCCTCGGAGCCAGGGGGCACCCACCCAGAGGACCACCAG
GGCCACTCTGATCAACACCACCACCATCACCACCACCACCATGGGCGAGACTTCTGCTC
CGAGCAGCCAGCTTTGACGTGTGCGAGAGCGTGGATGAGGCTGGGGGCTCCGGTCTGCT
GGCCTCCGTGCTTCCACCAGCGACGGGATCTTACGGGGCAACGGAACAGGGTACCTACC
GCAGAGGTCGTGTGCTGCTTCTTCCGGAGCCGAGCTTTTGTGAGCATCCAGGAAGAGAT
GCAGAAGATCCTCTCACCTACAAATCCCGGCTGATGGTGGTGGTGAAGATGGACAGTTCC
ATCCAGCCGGGGCCCTTCCGGGCTGTCTCAAGTACCTGTACACGGGGGAGCTAGATGAG
AACGAGCGTGACCTCATGCACATTGCCACATTGCTGAGCTGCTCGAGGTCTTTGATCTG
CGCATGATGGTGGCAACATTCTCAACAATGAGGCCTTCATGAACCAGGAGATCACCAAG
GCCTTCCACGTCCGCCGGACCAACCGGGTTAAGGAGTGTGGCAAAAGGCACCTTCTCA
GATGTGACCTTCACTCTGGATGATGGCACCATCAGCGCCACAAGCCCCTGTTGATTTC
AGCTGTGACTGGATGGCTGCCATGTTTGGGGGGCCATTTGTGGAGAGCTCCACCCGGGAG
GTGGTGTTCCTACACAAGCAAGAGCTGCATGCGGGCCGTGCTGGAATACCTCTACACC
GGCATGTTACCTCCAGCCCGACCTGGATGACATGAAGCTCATATTCTAGCCAACCGC
CTCTGCCTGCCACACCTGGTTGCCCTCACAGAGCAGTACACAGTGACCGGGCTGATGGAA
GCGACCCAGATGATGGTGGACATCGATGGGACGTCTTGTGTTCTGGAAGTGGCTCAG
TTCCACTGTGCGTACCAGCTGGCCGACTGGTGTCTCCACCACATCTGCACCAACTACAAC
AACGTGTGCCGAAGTTCCTCCGAGACATGAAGGCCATGTCCCCAGAAAACAGGAGTAT
TTCGAGAAGCATCGGTGGCCACCTGTGTGGTACCTGAAGGAGGAAGATCATTACCAGCGG
GCACGGAAGGAGCGTGAGAAGGAGGACTACCTCCACCTCAAGCGGCAGCCCAACGGCGT
TGGCTCTTCTGGAACAGTCCATCCTCCCGTCTTCTCGGCAGCCTCCTCCTCATCCCA
TCTTCTCCTCGGCTGTGGTCTGA

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**Restriction Sites:** Please inquire

**ACCN:** NM\_015178

**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).

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_015178.1, NP_055993.1</u>
<b>RefSeq Size:</b>	5101 bp
<b>RefSeq ORF:</b>	2184 bp
<b>Locus ID:</b>	23221
<b>UniProt ID:</b>	<u>Q9BYZ6</u>
<b>Cytogenetics:</b>	8p21.3
<b>Protein Pathways:</b>	Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.</p>