OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC211541

RHOBTB1 (NM_198225) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHOBTB1 (NM_198225) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RHOBTB1
Synonyms:	1700008H16Rik; 3110048G13Rik; AI173445; AI573858; AV350930; KIAA0740, MGC33059, MGC33841; MGC107538; Rho-related BTB domain containing 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ORF Nucleotide Sequence:

>RC211541 representing NM_198225
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGCTGACATGGACTACGAAAGACCCAACGTTGAAACTATCAAATGTGTGGTCGTGGGTGACAATG
CCGTGGGGAAGACGCGCTTGATCTGTGCCAGGGCGTGCAACACCACACTCACGCAGTATCAGCTGCTGGC
CACCCACGTGCCAACAGTGTGGGCGATTGACCAGTACCGCGTGTGCCAGGAGGTCTTGGAGCGTTCTCGG
GATGTTGTTGATGAAGTGAGTGTTTCTCTCAGGCTTTGGGATACTTTTGGTGATCATCACAAAGACAGAC
GCTTTGCATATGGCAGGTCTGATGTTGTGGTCCTCTGTTTTTCGATTGCTAATCCCAATTCCCTAAATCA
TGTGAAAAGCATGTGGTATCCAGAAATCAAGCACTTTTGCCCTCGAACACCCGTTATCCTTGTTGGGTGC
CAGCTTGATCTCCGCTATGCCGACCTGGAAGCTGTTAATCGAGCCAGGCGCCCGTTAGCAAGGCCCATAA
AGAGAGGGGATATTTTGCCCCCAGAAAAAGGCCGAGAGGTAGCAAAGGAACTTGGCTTACCATACTATGA
AACAAGCGTGTTTGACCAGTTTGGTATCAAGGATGTGTTTGACAATGCAATCCGAGCAGCGCTGATTTCC
CGCAGGCACCTGCAATTCTGGAAATCCCACCTAAAGAAAGTCCAGAAACCTTTACTTCAGGCACCCTTCC
TACCTCCAAAAGCCCCTCCACCGGTCATCAAAATTCCAGAGTGTCCTTCCATGGGGACAAATGAAGCTGC
CTGTTTACTGGACAATCCTCTATGTGCCGATGTTCTGTTCATCCTTCAGGACCAGGAACACATCTTTGCA
CATCGAATTTACCTCGCTACCTCTTCTTCCAAATTTTATGATCTGTTTTTAATGGAATGTGAAGAATCCC
CAAATGGGAGTGAAGGAGCCTGTGAGAAAGAGAAGCAGAGCAGAGATTTCCAGGGGCGGATATTGAGTGT
CGACCCAGAGGAAGAAAGGGAGGAGGGCCCGCCTAGGATTCCTCAGGCCGACCAGTGGAAGTCTTCAAAC
AAGAGCCTGGTGGAGGCTCTGGGGCTGGAAGCCGAGGGTGCAGTTCCTGAGACACAGACTTTGACCGGAT
GGAGTAAGGGGTTCATTGGCATGCACAGGGAAATGCAAGTCAACCCCATTTCAAAGCGGATGGGGCCCAT
GACTGTGGTCAGGATGGACGCTTCAGTCCAGCCAGGCCCTTTTCGGACCCTGCTCCAGTTTCTTTATACG
GGACAACTGGATGAAAAGGAAAAGGATTTGGTGGGCCTGGCTCAGATCGCAGAGGTCCTCGAGATGTTCG
ATTTGAGGATGATGGTGGAAAACATCATGAACAAGGAAGCCTTCATGAACCAGGAGATTACGAAAGCCTT
TCACGTAAGGAAAGCCAATCGGATAAAAGAGTGTCTCAGCAAGGGAACGTTCTCGGACGTGACATTTAAA
TTGGACGATGGAGCCATCAGTGCCCACAAGCCGCTGCTGATCTGTAGCTGTGAGTGGATGGCAGCCATGT
TCGGGGGGTCATTTGTGGAAAGTGCCAACAGTGAGGTGTATCTCCCGAACATAAACAAGATATCAATGCA
AGCAGTATTGGATTATCTCTATACCAAGCAGTTGTCTCCTAACTTGGATCTGGACCCGCTGGAATTAATT
GCCTTGGCAAACAGATTTTGCCTGCCACACTTGGTTGCACTTGCAGAACAGCATGCCGTTCAGGAGTTGA
CCAAAGCCGCCACGAGTGGCGTGGGCATTGACGGAGAAGTGCTCTCTTACTTGGAATTGGCTCAGTTTCA
CAATGCCCACCAGTTGGCCGCCTGGTGTTTGCACCACATCTGCACCAACTACAACAGTGTATGCTCCAAG
TTCCGTAAGGAAATCAAATCAAAATCTGCAGACAACCAGGAATACTTCGAGCGGCACCGCTGGCCCCCTG
TGTGGTACCTGAAGGAAGAAGATCACTACCAGCGTGTGAAAAGGGAACGAGAGAAGGAAGATATTGCACT
AAATAAGCATCGCTCAAGACGAAAGTGGTGCTTCTGGAATTCATCTCCAGCAGTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

>RC211541 representing NM_198225
Red=Cloning site Green=Tags(s)

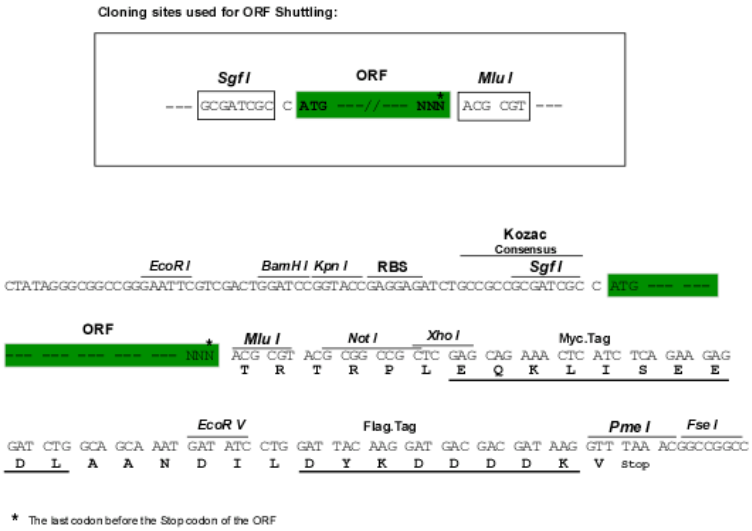
MDADMDYERPNVETIKCVVVGDNAVGKTRLICARACNTTLTQYQLLATHVPTVWAIDQYRVCQEVLERSR
DVVDEVSVSLRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNSLNHVKSMWYPEIKHFCPRTPVILVGC
QLDLRYADLEAVNRARRPLARPIKRGDILPPEKGREVAKELGLPYYETSVFDQFGIKDVFDNAIRAALIS
RRHLQFWKSHLKKVQKPLLQAPFLPPKAPPPVIKIPECPSMGTNEAACLLDNPLCADVLFILQDQEHIFA
HRIYLATSSSKFYDLFLMECEESPNGSEGACEKEKQSRDFQGRILSVDPEEEREEGPPRIPQADQWKSSN
KSLVEALGLEAEGAVPETQTLTGWSKGFIGMHREMQVNPISKRMGPMTVVRMDASVQPGPFRTLLQFLYT
GQLDEKEKDLVGLAQIAEVLEMFDLRMMVENIMNKEAFMNQEITKAFHVRKANRIKECLSKGTFSDVTFK
LDDGAISAHKPLLICSCEWMAAMFGGSFVESANSEVYLPNINKISMQAVLDYLYTKQLSPNLDLDPLELI
ALANRFCLPHLVALAEQHAVQELTKAATSGVGIDGEVLSYLELAQFHNAHQLAAWCLHHICTNYNSVCSK
FRKEIKSKSADNQEYFERHRWPPVWYLKEEDHYQRVKREREKEDIALNKHRSRRKWCFWNSSPAVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6101_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198225

ORF Size: 2088 bp

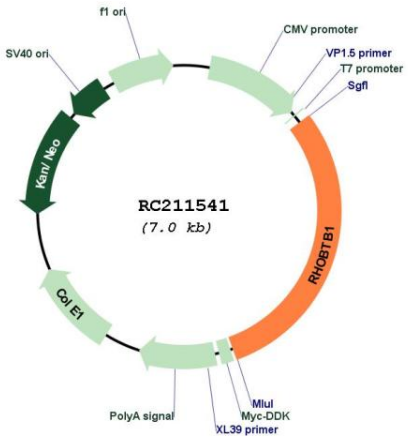
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

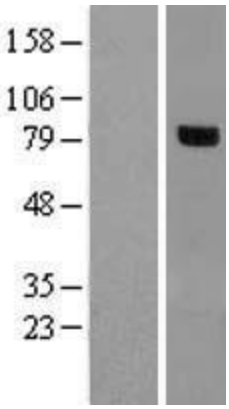
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_198225.1, NP_937868.1
RefSeq Size:	4382 bp
RefSeq ORF:	2090 bp
Locus ID:	9886
Cytogenetics:	10q21.2
MW:	79.2 kDa
Gene Summary:	The protein encoded by this gene belongs to the Rho family of the small GTPase superfamily. It contains a GTPase domain, a proline-rich region, a tandem of 2 BTB (broad complex, tramtrack, and bric-a-brac) domains, and a conserved C-terminal region. The protein plays a role in small GTPase-mediated signal transduction and the organization of the actin filament system. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Dec 2008]

Product images:



Circular map for RC211541

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



Western blot validation of overexpression lysate (Cat# [LY422316]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC223885] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US