

Product datasheet for **RG211541**

RHOBTB1 (NM_198225) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHOBTB1 (NM_198225) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RHOBTB1
Synonyms:	1700008H16Rik; 3110048G13Rik; AI173445; AI573858; AV350930; KIAA0740, MGC33059, MGC33841; MGC107538; Rho-related BTB domain containing 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG211541 representing NM_198225
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGCTGACATGGACTACGAAAGACCAACGTTGAACTATCAAATGTGTGGTCGTGGGTGACAATG
CGTGGGGAAGACGCGCTTGATCTGTGCCAGGGGTGCAACACCACACTCACGCAGTATCAGCTGCTGGC
CACCACGTGCCAACAGTGTGGCGATTGACCAGTACCGCGTGTGCCAGGAGGTCTTGGAGCGTTCTCGG
GATGTTGTTGATGAAGTGAAGTGTCTCTCAGGCTTTGGGATACTTTTGGTGATCATCACAAGACAGAC
GCTTTGCATATGGCAGGTCTGATGTTGTGGTCCTCTGTTTTTCGATTGCTAATCCCAATTCCTAAATCA
TGTGAAAAGCATGTGGTATCCAGAAATCAAGCACTTTTGCCTCGAACACCCGTTATCCTTGTGGGTGC
CAGCTTGATCTCCGCTATGCCGACCTGGAAGCTGTTAATCGAGCCAGGCGCCCGTTAGCAAGGCCATAA
AGAGAGGGGATATTTGCCCCAGAAAAGGCCGAGAGGTAGCAAAGGAACTTGGCTTACCATACTATGA
AACAGCGTGTTTGACCAGTTTGGTATCAAGGATGTGTTTGACAATGCAATCCGAGCAGCGCTGATTTC
CGCAGGCACCTGCAATTCGAAATCCACCTAAAGAAAGTCCAGAAACCTTTACTTCAGGCACCTTCC
TACCTCCAAAAGCCCCTCCACCGGTATCAAAATTCAGAGTGTCTTCCATGGGGACAAATGAAGCTGC
CTGTTTACTGGACAATCCTCTATGTGCCGATGTTCTGTTTCATCCTTCAGGACCAGGAACACATCTTTGCA
CATCGAATTTACCTCGCTACCTCTTCTTCCAAATTTATGATCTGTTTTAATGGAATGTGAAGAATCCC
CAATGGGAGTGAAGGAGCCTGTGAGAAAGAGAAGCAGAGCAGAGATTTCCAGGGGCGGATATTGAGTGT
CGACCCAGAGGAAGAAAGGGAGGAGGGCCCGCTAGGATTCCTCAGGCCAGCAGTGAAGTCTTCAAAC
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GGAGTAAGGGGTTCAATTGGCATGCACAGGAAATGCAAGTCAACCCCATTTCAAAGCGGATGGGGCCCAT
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TTGGACGATGGAGCCATCAGTGCCACAAGCCGCTGCTGATCTGTAGCTGTGAGTGGATGGCAGCCATGT
TCGGGGGGTCATTTGTGGAAAGTCCAACAGTGAAGTGTATCTCCGAACATAAACAAGATATCAATGCA
AGCAGTATTGGATTATCTCTATACCAAGCAGTTGTCTCCTAACTGGATCTGGACCCGCTGGAATTAATT
GCCTTGCCAAACAGATTTTGCCTGCCACACTTGGTTGCACTTGCAGAACAGCATGCCGTTTCCAGGATTGA
CCAAGCCGCCACGAGTGGCGTGGGCATTGACGGAGAAGTGTCTTACTTGAATTTGGCTCAGTTTCA
CAATGCCACCAGTTGGCCGCTGGTGTGTCACCACTCTGCACCAACTACAACAGTGTATGCTCCAAG
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TGTGGTACCTGAAGGAAGAAGATCACTACCAGCGTGTGAAAAGGGAACGAGAGAAGGAAGATATTGCACT
AAATAAGCATCGCTCAAGACGAAAGTGGTGCTTCTGGAATTCATCTCCAGCAGTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211541 representing NM_198225
Red=Cloning site Green=Tags(s)

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MDADM DYERPNVETIKCVVVG DNAV GKTRLICARACNTTLTQYQLLATHVPTVWAI DQYRVCQEV LERSR
DVVDEVS VSLRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNSLNHVKSMWYPEIKHFCPRTPVILVGC
QLDLRYADLEAVNRARRPLARPIKRGDILPPEKGREVAKELGLPYEYSVFDQFGIKDVF DNAIRAALIS
RRHLQFWKSHLKKVQKPLLQAPFLPPKAPPPVIK IPECP SMGTNEAACLLDNPLCADVLFILQDQEHIFA
HRIYLATSSSKFYDLFLMECEESPNGSEGACEKEKQSRDFQGRILSVDPEEERE EGPPRIPQADQWKSSN
KSLVEALGLEAEGAVPETQTLTGWSKGFJGMHREM QVNPISKRMGPMTVVRMDASVQPGPFRTLLQFLYT
GQLDEKEKDLVGLAQIAEVLEMFDLRMMVENIMNKEAFMNQEITKAFHVRKANRIKECLSKGTFSDVTFK
LDDGAISAHKPLLICSC EWMAAMFGGSFVESANSEVYLPNINKISMQAVLDYLYTKQLSPNLDLDPLELI
ALANRFLCLPHLVALAEQHAVQELTKAATSGV GIDG EVLSYLELAQFHNAHQLAAWCLHHICTNYSVCSK
FRKEIKSKSADNQEYFERHRWPPVWYLKEEDHYQRVKREREKEDIALNKHRSRRKWCFWNSSPAVA
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TRTRPLE - GFP Tag - V

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.

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_198225.1](#), [NP_937868.1](#)

RefSeq Size: 4382 bp

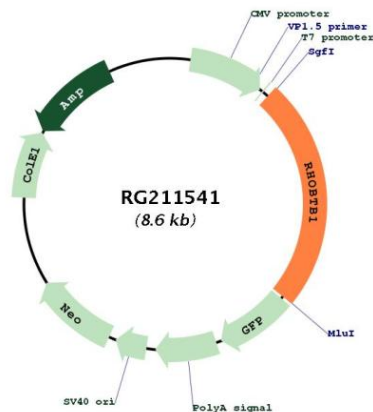
RefSeq ORF: 2090 bp

Locus ID: 9886

Cytogenetics: 10q21.2

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 RG211541