

Product datasheet for **RG206310**

RHOBTB1 (NM_014836) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHOBTB1 (NM_014836) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RHOBTB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206310 representing NM_014836
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGCTGACATGGACTACGAAAGACCAACGTTGAAACTATCAAATGTGTGGTCGTGGGTGACAATG
 CCGTGGGGAAGACGCGCTTGATCTGTGCCAGGGGTGCAACACCACACTCACGCAGTATCAGCTGCTGGC
 CACCCACGTGCCAACAGTGTGGGCGATTGACCAGTACCGCGTGTGCCAGGAGGTCTTGGAGCGTTCTCGG
 GATGTTGTTGATGAAGTGAAGTGTCTCTCAGGCTTTGGGATACTTTTGGTGATCATCACAAGACAGAC
 GCTTTGCATATGGCAGGTCTGATGTTGTGGTCCTCTGTTTTTCGATTGCTAATCCCAATTCCTAAATCA
 TGTGAAAAGCATGTGGTATCCAGAAATCAAGCACTTTTGCCTCGAACACCCGTTATCCTTGTGGGTGC
 CAGCTTGATCTCCGCTATGCCGACCTGGAAGCTGTTAATCGAGCCAGGCGCCCGTTAGCAAGGCCATAA
 AGAGAGGGGATATTTGCCCCAGAAAAGGCCGAGAGGTAGCAAAGGAACTTGGCTTACCATACTATGA
 AACAAAGCTGTTTGACCACTTTGGTATCAAGGATGTGTTTGACAATGCAATCCGAGCAGCGCTGATTTC
 CGCAGGCACCTGCAATTCGAAAATCCACCTAAAGAAAGTCCAGAAACCTTTACTTCAGGCACCCCTCC
 TACCTCCAAAAGCCCTCCACCGGTATCAAAATTCAGAGTGTCTTCCATGGGGACAAATGAAGCTGC
 CTGTTTACTGGACAATCCTCTATGTGCCGATGTTCTGTTTCATCCTTCAGGACCAGGAACACATCTTTGCA
 CATCGAATTTACCTCGCTACCTCTTCTTCCAAATTTATGATCTGTTTTAATGGAATGTGAAGAATCCC
 CAAATGGGAGTGAAGGAGCCTGTGAGAAAGAGAAGCAGAGCAGAGATTTCCAGGGGCGGATATTGAGTGT
 CGACCCAGAGGAAGAAAGGGAGGAGGGCCCGCTAGGATTCCTCAGGCCGACCAAGTGAAGTCTTCAAAC
 AAGAGCCTGGTGGAGGCTCTGGGCTGGAAGCCGAGGGTGCAGTTCCTGAGACACAGACTTGGCCGAT
 GGAGTAAGGGGTTCAATTGGCATGCACAGGAAATGCAAGTCAACCCCATTTCAAAGCGGATGGGGCCCAT
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 AGCAGTATTGGATTATCTCTATAACCAAGCAGTTGTCTCCTAACTGGATCTGGACCCGCTGGAATTAATT
 GCCTTGCCAAACAGATTTTGCCTGCCACACTTGGTTGCACTTGCAGAACAGCATGCCGTTTCCAGGAGTTGA
 CCAAGCCGCCACGAGTGGCGTGGGCATTGACGGAGAAGTGTCTTACTTGAATTTGGCTCAGTTTCA
 CAATGCCACCAGTTGGCCGCTGGTGTGTCACCACTCTGCACCAACTACAACAGTGTATGCTCCAAG
 TTCCGTAAGGAAATCAAATCAAATCTGCAGACAACCAGGAATACTTCGAGCGGCACCGCTGGCCCCCTG
 TGTGGTACCTGAAGGAAGAAGATCACTACCAGCGTGTGAAAAGGGAACGAGAGAAGGAAGATATTGCACT
 AAATAAGCATCGCTCAAGACGAAAGTGGTGCTTCTGGAATTCATCTCCAGCAGTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG206310 representing NM_014836
Red=Cloning site Green=Tags(s)

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MDADMDYERPNETIKCVVVDNAVGKTRLICARACNTTLTQYQLLATHVPTVWAIQYRVCQEVLEERSR
DVVDEVSLSRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNSLNHVKSMWYPEIKHFCPRTPVILVGC
QLDLRYADLEAVNRARRPLARPIKRGDILPPEKGREVAKELGLPPYYETSVDQFGIKDVFDAIRAALIS
RRHLQFWKSHLKKVQKPLLQAPFLPPKAPPPVIKIPCEPSMGTNEAACLLDNPLCADVLFILQDQEHIFA
HRIYLATSSSKFYDLFLMECEESPNGSEGACEKEKQSRDFQGRILSVDPEEEREEGPPRIPQADQWKSSN
KSLVEALGLEAEGAVPETQTLTGWSKGFJGMHREMQVNPISKRMGPMTVVRMDASVQPGPFRTLLQFLYT
GQLDEKEKDLVGLAQIAEVLEMFDLMMVENIMNKEAFMNQEITKAFHVRKANRIKECLSKGTFSDVTFK
LDDGAISAHKPLLICSCWMAAMFGGSFVESANSEVYLPNINKISMQAVLDYLYTKQLSPNLDLDPLELI
ALANRFCLPHLVALAEQHAVQELTKAATSGVGIDGEVLSYLELAQFHNAHQLAAWCLHHICTNYSVCSK
FRKEIKSKSADNQEYFERHRWPPVWYLKEEDHYQRVKREREKEDIALNKHRSRRKWCFFWNSSPAVA
    
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_014836

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014836.5](#)

RefSeq Size: 4471 bp

RefSeq ORF: 2091 bp

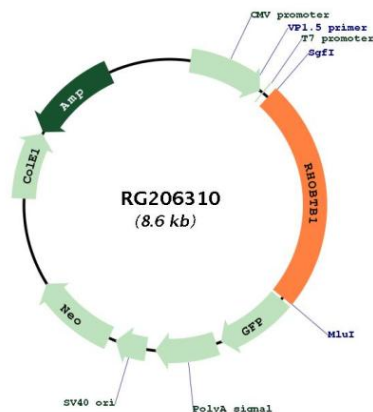
Locus ID: 9886

UniProt ID: [O94844](#)

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 RG206310