

Product datasheet for **SC111741**

RHOBTB1 (NM_014836) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHOBTB1 (NM_014836) Human Untagged Clone
Tag:	Tag Free
Symbol:	RHOBTB1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111741 sequence for NM_014836 edited (data generated by NextGen Sequencing)

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ATGGACGCTGACATGGACTACGAAAGACCAACGTTGAACTATCAAATGTGTGGTCGTG
GGTGACAATGCCGTGGGAAGACGCGCTTGATCTGTGCCAGGGCGTGCAACACCACACTC
ACGCAGTATCAGTGTGCGCCACCCACGTGCCAACAGTGTGGCGATTGACCAGTACCGC
GTGTGCCAGGAGGTCTTGGAGCGTTCTCGGGATGTTGTTGATGAAGTGAGTGTCTCTC
AGGCTTTGGGATACTTTTGGTGATCATCACAAGACAGACGCTTGCATATGGCAGGTCT
GATGTTGTGGTCCTCTGTTTTTCGATTGCTAATCCCAATTCCTAAATCATGTGAAAAGC
ATGTGGTATCCAGAAATCAAGCACTTTTGCCCTCGAACACCCGTTATCCTTGTGGGTGC
CAGCTTGATCTCCGCTATGCCGACCTGGAAGCTGTTAATCGAGCCAGGCGCCCGTTAGCA
AGGCCCATAAAGAGAGGGGATATTTGCCCCAGAAAAAGGCCGAGAGGTAGCAAAGGAA
CTTGGCTTACCATACTATGAAACAAGCGTGTGTTGACCAGTTTGGTATCAAGGATGTGTT
GACAATGCAATCCGAGCAGCGTGATTTCCCGCAGGCACCTGCAATTCTGGAAATCCAC
CTAAAGAAAGTCCAGAAACCTTTACTTCAGGCACCTTCTACCTCCAAAAGCCCCTCCA
CCGGTCATCAAAATTCAGAGTGTCTTCCATGGGGACAAATGAAGCTGCCTGTTTACTG
GACAATCTCTATGTGCCGATGTTCTGTTCATCTTCAGGACCAGGAACATCTTTGCA
CATCGAATTTACCTCGCTACCTCTTCTTCCAAATTTTATGATCTGTTTTAATGGAATGT
GAAGAATCCCCAATGGGAGTGAAGGAGCCTGTGAGAAAGAGAAGCAGAGCAGAGATTT
CAGGGGCGGATATTGAGTGTGACCCAGAGGAAGAAAGGAGGAGGGCCCGCTAGGATT
CCTCAGGCCGACCAAGTCTTCAACAAGAGCCTGGTGGAGGCTCTGGGGCTGGAA
GCCGAGGTGTCAGTTCCTGAGACACAGACTTTGACCGGATGGAGTAAGGGGTTTATTGGC
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CAGGAGATTACGAAAGCCTTTCACGTAAGGAAAGCCAATCGGATAAAAGAGTGTCTCAGC
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CCGCTGCTGATCTGTAGCTGTGAGTGGATGGCAGCCATGTTGGGGGGTCATTTGTGGAA
AGTGCCAACAGTGAGGTGTATCTCCGAACATAAACAAGATATCAATGCAAGCAGTATTG
GATTATCTCTATACCAAGCAGTTGTCTCCTAAGTGGATCTGGACCCGCTGGAATTAATT
GCCTTGCCAAACAGATTTTGCCTGCCACACTTGGTTGCACTTGCAAGACAGCATGCCGTT
CAGGAGTTGACCAAAGCCGCCACGAGTGGCGTGGGCATTGACGGAGAAGTGCTCTTTAC
TTGGAATTGGCTCAGTTTCACAATGCCACCAAGTTGGCCGCTGGTGTGTCACCAATC
TGCACCAACTACAACAGTGTATGCTCCAAGTTCGTAAGGAAATCAAATCAAATCTGCA
GACAACCAGGAATACTTCGAGCGGCACCGCTGGCCCCCTGTGTGGTACCTGAAGGAAGAA
GATCACTACCAGCGTGTGAAAAGGGAACGAGAGAAGGAAGATATTGCACTAAATAAGCAT
CGCTCAAGACGAAAGTGGTGCTTCTGGAATTCATCTCAGCAGTGGCCTGA

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Clone variation with respect to NM_014836.4

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014836 unedited <pre> NCCTTCCCCCGCCGTTGCCGCAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTGCAGCGGCCG CGAATTCGGCACGAGGCTCCGTTCCGCCTGGCTGCCCCGCCTGGGAGCGGGGTGGGGCA GGCGAAGGGGAGGGCTGCGGGTGAAAGGGGCGAGCCCTCTCGCCGGGACTGGGAAGA GCGGCCACGGCGCCGGGCGAGGCGGCAGGGCGAGGCAGTGCCATGCTGCCTTTGTGAAA GTTGGGCGGCGGGCGGCGCGCCGCGCAGGGGCCCGCACACCCGCGACCGCGCGCAGC CGTGGCTGCTGCTGGTGGGCGGCNNCNCNNCCNCCCCCCCCCTCCTCCTCCCCCTCC TCTTCTTTCTTCCCCCTTTCCTTTCTCCTTCCCCCTCTTCTCCTCTTTTCTCCCT CTCCCTCCCCCTTCCCCCCCCCTTCTTCTCTTCTTCTCTCTTCTTCTTCTTCTTCTT CCCCCCCCCTCCTCCCTCTCCCTCCCCCTTCTTTTCCCCCCCCCTTCTCTCCTTCC CCCCCTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTTCTTCTTCTTCTTCTT CCCCCTTCTCCCCCTTCCCCCTTCTTCCCCCTCCTCCCCCTCCTCCCCCCCCCTT TCTCTTCTCCTCCTCCTCCCCCCCCCCCCCTCCCCCTCCCCCTTTTCTCCTTCTCT CCCCCCCCCCCCCGCTTTCTCCTCCTCCCCCCCCCTCNGTTTCTTTGTCCCTT TCCTCCTTCCCTTCCCTCCTCCTTCCCCCTTCCCCCCCCCTTTTCTTCTCCTC TCTCTCTCCCCGCCCC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014836
Insert Size:	4200 bp
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).
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_014836.3 , NP_055651.1
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]

Transcript Variant: This variant (1) encodes the longer isoform. Variants 1-6 encode the same protein (isoform 1).