

Product datasheet for **RG233088**

RHOBTB1 (NM_001242359) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHOBTB1 (NM_001242359) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RHOBTB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG233088 representing NM_001242359
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGCTGACATGGACTACGAAAGACCAACGTTGAAACTATCAAATGTGTGGTCGTGGGTGACAATG
CGTGGGGAAGACGCGCTTGATCTGTGCCAGGGGTGCAACACCACACTCACGCAGTATCAGCTGCTGGC
CAGCCACGTGCCAACAGTGTGGGCGATTACCAGTACCGCGTGTGCCAGGAGGTCTTGGAGCGTTCTCGG
GATGTTGTTGATGAAGTGAAGTGTCTCTCAGGCTTTGGGATACTTTTGGTGATCATCACAAGACAGAC
GCTTTGCATATGGCAGGTCTGATGTTGTGGTCTCTGTTTTTCGATTGCTAATCCCAATTCCTAAATCA
TGTGAAAAGCATGTGGTATCCAGAAATCAAGCACTTTTGCCTCGAACACCCGTTATCCTTGTGGGTGC
CAGCTTGATCTCCGCTATGCCGACCTGGAAGCTGTTAATCGAGCCAGGCGCCCGTTAGCAAGGCCATAA
AGAGAGGGGATATTTGCCCCAGAAAAGGCCGAGAGGTAGCAAAGGAACTTGGCTTACCATACTATGA
AACAGCGTGTTTGACCACTTTGGTATCAAGGATGTGTTTGACAATGCAATCCGAGCAGCGCTGATTTC
CGCAGGCACCTGCAATTCGAAATCCACCTAAAGAAAGTCCAGAAACCTTTACTTCAGGCACCTTCC
TACCTCCAAAAGCCCTCCACCGGTATCAAAATTCAGAGTGTCTTCCATGGGGACAAATGAAGCTGC
CTGTTTACTGGACAATCCTCTATGTGCCGATGTTCTGTTTCATCCTTCCAGGACCAGGAACACATCTTTGCA
CATCGAATTTACCTCGCTACCTCTTCTTCCAAATTTATGATCTGTTTTAATGGAATGTGAAGAATCCC
CAAATGGGAGTGAAGGAGCCTGTGAGAAAGAGAAGCAGAGCAGAGATTTCCAGGGGCGGATATTGAGTGT
CGACCCAGAGGAAGAAAGGGAGGAGGGCCCGCTAGGATTCCTCAGGCCGACCAAGTGAAGTCTTCAAAC
AAGAGCCTGGTGGAGGCTCTGGGCTGGAAGCCGAGGGTGCAGTTCCTGAGACACAGACTTGGCCGAT
GGAGTAAGGGGTTCAATTGGCATGCACAGGAAATGCAAGTCAACCCCATTTCAAAGCGGATGGGGCCCAT
GACTGTGGTCAGGATGGACGCTTCAGTCCAGCCAGGCCCTTTTCGGACCTGCTCCAGTTTCTTTATACG
GGACAACCTGGATGAAAAGGAAAAGGATTTGGTGGGCTGGCTCAGATCGCAGAGGTCTCGAGATGTTTCG
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TTGGACGATGGAGCCATCAGTGCCACAAGCCGCTGCTGATCTGTAGCTGTGAGTGGATGGCAGCCATGT
TCGGGGGGTCATTTGTGAAAGTGCCAACAGTGAAGTGTATCTCCGAACATAAACAAGATATCAATGCA
AGCAGTATTGGATTATCTATACCAAGCAGTTGTCTCCTAACTGGATCTGGACCCGCTGGAATTAATT
GCCTTGCCAAACAGATTTGCTGCCACACTTGGTTGCACTTGCAGAACAGCATGCCGTTCCAGGAGTTGA
CCAAAGCCGCCACGAGTGGCGTGGGCATTGACGGAGAAGTGTCTTACTTGAATTTGGCTCAGTTTCA
CAATGCCACCAGTTGGCCGCTGGTGTGTCACCACATCTGCACCAACTACAACAGTGTATGCTCCAAG
TTCCGTAAAGAAATCAAATCAAATCTGCAGACAACCAGGAATACTTCGAGCGGCACCGCTGGCCCCCTG
TGTGGTACCTGAAGGAAGAAGATCACTACCAGCGTGTGAAAAGGGAACGAGAGAAGGAAGATATTGCACT
AAATAAGCATCGCTCAAGACGAAAGTGGTGTCTTCTGGAATTCATCTCCAGCAGTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG233088 representing NM_001242359
Red=Cloning site Green=Tags(s)

MDADMDYERPNETIKCVVVDNAVKGKTRLICARACNTTLTQYQLLATHVPTVWAIQYRVCQEVLEERSR
 DVVDEVSLSRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNSLNHVKSMWYPEIKHFCPRTPVILVGC
 QLDLRYADLEAVNRARRPLARPIKRGDILPPEKGREVAKELGLPYEYSVFDQFGIKDVFDAIRAALIS
 RRHLQFWKSHLKKVQKPLLQAPFLPPKAPPPVIKIPCEPSMGTNEAACLLDNPLCADVLFILQDQEHIFA
 HRIYLATSSSKFYDLFLMECEESPNGSEGACEKEKQSRDFQGRILSVDPEEEREEGPPRIPQADQWKSSN
 KSLVEALGLEAEGAVPETQTLTGWSKGFJGMHREMQVNPISKRMGPMTVVVRMDASVQPGPFRTLLQFLYT
 GQLDEKEKDLVGLAQIAEVLEMFDLRMMVENIMNKEAFMNQEITKAFHVRKANRIKECLSKGTFSDVTFK
 LDDGAISAHKPLLICSCWMAAMFGGSFVESANSEVYLPNINKISMQAVLDYLYTKQLSPNLDLPLELI
 ALANRFCLPHLVALAEQHAVQELTKAATSGVGIDGEVLSYLELAQFHNAHQLAAWCLHHICTNYSVCSK
 FRKEIKSKSADNQEYFERHRWPPVWYLKEEDHYQRVKREREKEDIALNKHRSRRKWCFFWNSSPAVA

TRTRPLE - GFP Tag - V

Restriction Sites:

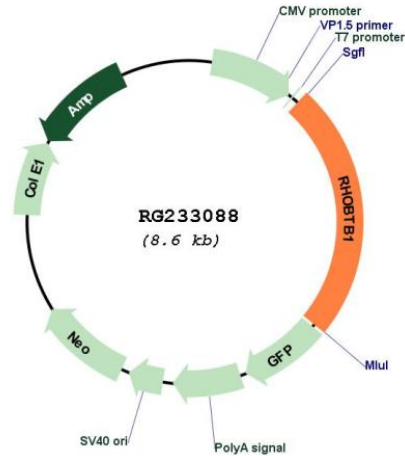
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN:	NM_001242359
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:	<ol style="list-style-type: none"> 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_001242359.2

RefSeq Size: 4587 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]