

## Product datasheet for **RG206686**

### **RHEBL1 (NM\_144593) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RHEBL1 (NM\_144593) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RHEBL1  
**Synonyms:** RHEBL1c  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG206686 representing NM\_144593  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGCTAGTCCGCTACAGGAAGGTGGTCATCCTCGGATACCGCTGTGTAGGGAAGACATCTTTGGCAC  
ATCAATTTGTGGAAGGCGAGTTCTCGGAAGGCTACGATCTACAGTGGAGAATACTTACAGCAAGATAGT  
GACTCTTGGCAAAGATGAGTTTCACCTACATTTGGTGGACACAGCAGGGCAGGATGAGTACAGCATTCTG  
CCCTATTCATTCATCATTGGGGTCCATGGTTATGTGCTTGTGATTCTGTCACCTCTCTGCATAGCTTCC  
AAGTCATTGAGAGTCTGTACAAAAGCTACATGAAGGCCATGGGAAAACCCGGGTGCCAGTGGTTCTAGT  
GGGGAACAAGGCAGATCTCTCCAGAGAGAGAGGTACAGGCAGTTGAAGGAAAGAAGCTGGCAGAGTCC  
TGGGGTGCACATTTATGGAGTCATCTGCTCGAGAGAATCAGCTGACTCAAGGCATCTTACCAAAGTCA  
TCCAGGAGATTGCCCGTGTGGAGAATTCCTATGGGCAAGAGCGTCGCTGCCATCTCATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206686 representing NM\_144593  
Red=Cloning site Green=Tags(s)

MPLVRYRKVVILGYRCVGTSLAHQFVEGEFSEGYDPTVENTYSKIVTLGKDEFHLHLVDTAGQDEYSIL  
PYSFIIGVHGYLVVSVTSLHSFQVIESLYQKLHEGHGKTRVPVVLVGNKADLSPEREVQAVEGKLAES  
WGATFMESSARENQLTQGIFTKVIQEIARVENSYGQERRCHLM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_144593

**ORF Size:** 549 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\\_144593.1](#), [NP\\_653194.1](#)

**RefSeq Size:** 1192 bp

**RefSeq ORF:** 552 bp

**Locus ID:** 121268

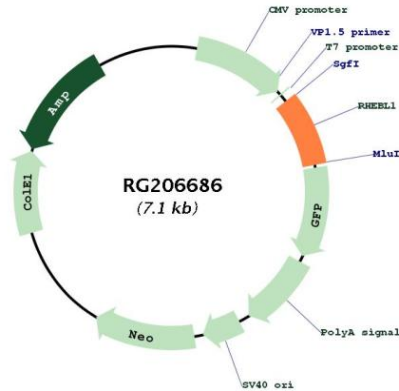
**UniProt ID:** [Q8TAI7](#)

**Cytogenetics:** 12q13.12

**Domains:** ras, RAS, RHO, RAB

**Gene Summary:** Binds GTP and exhibits intrinsic GTPase activity. May activate NF-kappa-B-mediated gene transcription. Promotes signal transduction through MTOR, activates RPS6KB1, and is a downstream target of the small GTPase-activating proteins TSC1 and TSC2.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG206686