

Product datasheet for **MG201682**

Rheb (BC012273) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rheb (BC012273) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rheb
Synonyms: Rheb1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201682 representing BC012273
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCAGTCCAAGTCCCAGGATCGCCATCCTGGGCTACCGTCTGTGGAAAGTCCTCATTGACAA
TTCAGTTTGTGAAGCCAATTTGTTGATTCTACGATCCAACCATAGAGAACACGTTCCACCAAGTTGAT
CACGGTAAATGGTCAAGAGTATCATCTTCAGTTGTAGACACAGCGGGCAGGATGAATATTCATTTTT
CCTCAGACATACTCCATAGATATTAATGGTTATATTCTTGTGTATTCTGTTACATCAATCAAAGTTTTG
AAGTAATTAAGTTATCCATGGCAAGTTGTTGGATATGGTGGGAAAGTGCAGATACCTATTATGTTGGT
TGGAAATAAGAAGGACCTGCATATGGAAAGGGTATCAGCTATGAAGAAGGAAAGGCTTTGGCAGAATCT
TGGAAATGCAGCTTTTTTGAATCTTCTGCTAAAGAAAATCAAAGTCTGTTGATGTTTTTAAAGGATAA
TTTTGGAAGCAGAAAAGATTGATGGAGCAGCTTCAAGGAAAGTCTTCGTGCTCGGTGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201682 representing BC012273
Red=Cloning site Green=Tags(s)

MPQSKSRKIAILGYRSVGKSSLIQFVEGQFVDSYDPTIENTFTKLITVNGQEYHLQLVDTAGQDEYSIF
PQTYSIDINGYILVYSVTSIKSFEVIKVIHGKLLDMVGKVIPIMLVGNKKDLHMERSVIEEGKALAES
WNAAFLESSAKENQTAVDVFKRIILEAEKIDGAASQKSSCSVM

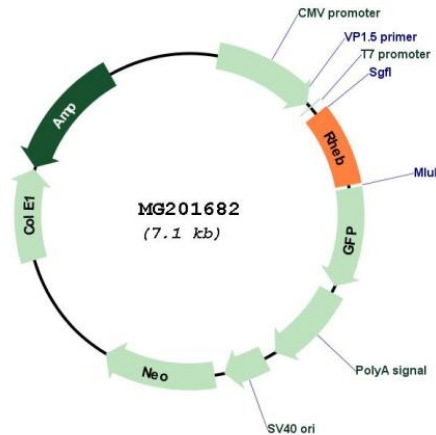
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: BC012273

ORF Size: 554 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:	<u>BC012273</u> , <u>AAH12273</u>
RefSeq Size:	1178 bp
RefSeq ORF:	554 bp
Locus ID:	19744
Cytogenetics:	5 A3
Gene Summary:	Activates the protein kinase activity of mTORC1, and thereby plays a role in the regulation of apoptosis. Stimulates the phosphorylation of S6K1 and EIF4EBP1 through activation of mTORC1 signaling. Has low intrinsic GTPase activity.[UniProtKB/Swiss-Prot Function]