

Product datasheet for **MG215936**

RhebII (NM_026967) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: RhebII
Synonyms: 1810036J22Rik; Rheb2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG215936 representing NM_026967
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGCTGGTGCCTACAGGAAGGTGGCCATCCTAGGGTACCGCTCCGTAGGGAAGACATCTTTGGCAC
 ATCAATTTGTGGAAGGCGAGTTCCTGGAAGGCTACGATCCTACAGTGGAGAATACTTACAGCAAGACAGT
 GACTCTTGGCAAAGATGAGTTTCACCTACATCTGGTGGACACAGCAGGGCAGGATGAGTACAGCATTCTG
 CCCTACTCGCTCATCATCGGGTCCATGGTTACGTTCTTGATACTCGGTTAACTCTCTGCCAGCTTTC
 AGATCGTTAAGAACCCTGTACCAAAAAGCTACACGAAGGCCACGGTAAAACCCGGCTGTCGGTGTCTGTTG
 GGGGAACAAGGCAGATCTCTCTCCTGAGAGAGAGGTGCAGGCAGTTGAAGGGAAGAAGCTAGCAGAGTCC
 TGGGGTGGATGTTTATGGAGTCGTCTGCTCGGATAATCAGCTAACTCAAGATGTCTTCATCAAAGTCA
 TCCAGGAGATTGCCCGGTGGAGAATTCTTATGGACGACAAGACCGCCGATGCTATCTTATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215936 representing NM_026967
 Red=Cloning site Green=Tags(s)

MPLVRYRKVAILGYRSVGKTSLAHQFVEGEFLEGYDPTVENTYSKTVTLGKDEFHLHLVDTAGQDEYSIL
 PYSLIIGVHGYVLVYSVNSLRSFQIVKNLYQKLHEGHGKTRLVLLVGNKADLSPEREVQAVEGKKLAES
 WGAMFMESSARDNQLTQDVFIKVIQEIARVENSYGRQDRRCYLM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_026967

ORF Size: 552 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_026967.4](#), [NP_081243.1](#)

RefSeq Size: 1227 bp

RefSeq ORF: 555 bp

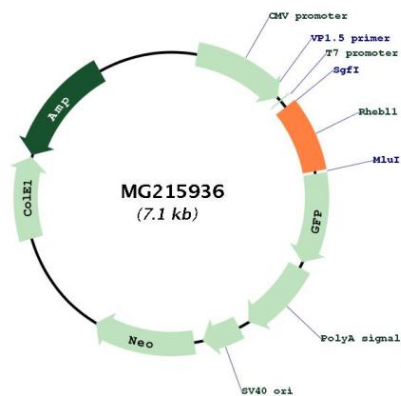
Locus ID: 69159

UniProt ID: [Q9D8T3](#)

Cytogenetics: 15 F1

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 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215936