

## **Product datasheet for MR201939**

## Rhob (NM\_007483) Mouse Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Rhob (NM\_007483) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Rhob

Synonyms: AA017882; Arh6; Arhb

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>MR201939 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGGCCATCCGCAAGAAGCTGGTGGTGGTGGTGGGCGACGGCGCGTGCGGCAAGACGTGCCTGCTGATCG
TGTTCAGTAAAGACGAATTCCCCGAGGTGTACGTGCCCACCGTGTTCGAGAACTATGTGGCGGACATCGA
GGTGGACGGCAAGCAGGTGGAGCTGGCGCTGTGGGACACGGCAGGCCAGGAGGACTACGATCGTTTACGG
CCGCTCTCCTATCCGGACACCGACGTCATCCTTATGTGCTTCTCGGTGGACAGCCCGGACTCTCTCGAGA
ACATCCCCGAGAAGTGGGTGCCCGAGGTAAAGCACTTCTGCCCCAATGTGCCCATCATCCTGGTGGCCAA
CAAAAAAGACCTGCGCAGCGACGAGCATGCCGCACGGAGCTGGCCCGCATGAAGCAGGAGCCAGTGCGC
ACGGATGACGCCGCCGCCCCATGACCCAAGACCA
AGGAGGGCGTGCCGCCACGAGGTTTTTGAGACGGCCACGCGCCCCGCCTGCAGAAGCCCTACGGATCCCAGAA

TGGCTGCATCAACTGCTGCAAGGTGCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201939 protein sequence

Red=Cloning site Green=Tags(s)

MAAIRKKLVVVGDGACGKTCLLIVFSKDEFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYDRLR PLSYPDTDVILMCFSVDSPDSLENIPEKWVPEVKHFCPNVPIILVANKKDLRSDEHVRTELARMKQEPVR

TDDGRAMAVRIQAYDYLECSAKTKEGVREVFETATRAALQKRYGSQNGCINCCKVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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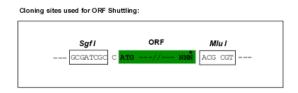
CN: techsupport@origene.cn

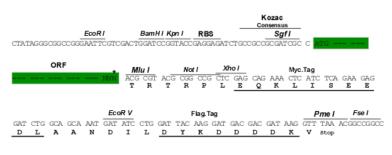
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_007483

ORF Size: 591 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:** <u>NM 007483.3</u>

RefSeq Size: 2264 bp
RefSeq ORF: 591 bp
Locus ID: 11852
UniProt ID: P62746

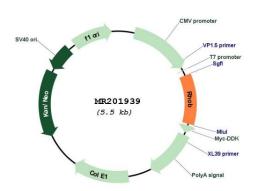


Cytogenetics: 12 A1.1 MW: 22.1 kDa

Gene Summary:

Mediates apoptosis in neoplastically transformed cells after DNA damage. Not essential for development but affects cell adhesion and growth factor signaling in transformed cells. Plays a negative role in tumorigenesis as deletion causes tumor formation. Involved in intracellular protein trafficking of a number of proteins. Targets PKN1 to endosomes and is involved in trafficking of the EGF receptor from late endosomes to lysosomes. Also required for stability and nuclear trafficking of AKT1/AKT which promotes endothelial cell survival during vascular development. Serves as a microtubule-dependent signal that is required for the myosin contractile ring formation during cell cycle cytokinesis. Required for genotoxic stress-induced cell death in breast cancer cells.[UniProtKB/Swiss-Prot Function]

## **Product images:**



Circular map for MR201939