

## Product datasheet for **MC201035**

### **Rhob (NM\_007483) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rhob (NM_007483) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rhob
Synonyms:	AA017882; Arh6; Arhb
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC018275 sequence for NM\_007483  
GTCGTCTGCGCCCCTGTACCCTAGGTCTAGAGTGAACCCGCCCGGGAAAGAAGCTAGGCCGGTCCGCA  
GCATCAGCCATCACTTCGCACAAAGCAGCGCAGCTCCGGGACCGCCGAGGACCACAGCGCGCGGACGCG  
GCGCGGCGACTCAGTGCACCGTATGCCCTGCGCCCTGCCGAGGCAACCGGAGCGCCCCGAGAGACC  
GCGCCGCCGGGGTCCAGGTGCAGTTAGCGAGCCTAGCCCGCAGCGCGCAGTCGCGGGAGAGCGGGGAG  
CGGCAAGCAACAGGAGCGGGACGGCGGGGAGGCGCTCGCGGGCCCTCTGCTGCCCGCGCCGGCGAG  
TCGTGTTTCAGTAAAGACGAATTCGCCGAGGTGTACGTGCCACCCTGTTGAGAACTATGTGGCGGACAT  
CGAGGTGGACGGCAAGCAGGTGGAGCTGGCGCTGTGGACACGGCAGGCCAGGAGACTACGATCGTTTA  
CGGCCGCTCTCTATCCGGACACCGACGTATCCTTATGTGCTTCTCGGTGGACAGCCGGACTCTCTCG  
AGAATCCCCGAGAAGTGGTGCCCGAGGTAAGCACTTCTGCCCAATGTGCCATCATCCTGGTGGC  
CAACAAAAAAGACCTGCGCAGCGACGAGCATGTCCGCACGGAGCTGGCCCGCATGAAGCAGGAGCCAGTG  
CGCACGGATGACGGCCGCCATGGCGGTGCGCATCCAAGCCTATGACTACCTCGAGTGTCTGGCCAAGA  
CCAAGGAGGGCGTGCAGGTTTTTGTAGACGGCCACGGCGCCGCTGCAGAAGCGCTACGGATCCCA  
GAATGGTGCATCAACTGCTGCAAGGTGCTATGAGGGACGCGTCTGCCCTCACGCCCTTCCAGCGTGGC  
TCCCCCTCCTTGCCCGTGCGCCACGAACCGGAGAAAGGGAGACCCATGCCCCCAAGGACACCACCAG  
ACTGCCTGACATCTGCTGGTGGCTCTGGCTGGTACGCTGAGAATTAGCGTGGGACCGAGCTCCCCCTT  
CCCAGTGTCTGTGTGTCCAGCTGTGTGGCACAGGCCTGGGACCCTGTGAGTGCCAAGGGGTTCCTG  
AGCATCCTTTTCTAAAGACCCAGGCCTCAAAGTGTGGTGTGTGTGTGTGACTCCCTACACCCACCC  
GACTCCTGCCCAACCCCGCCTCTGGTTTTCCCAAGGGGCACGCAGAGTGGTTGCGCCCCAGCAGTTTTG  
CTTGTAAACCAGCAAGCCACTACTGTTGCTCCATGTCTGTAACATAGACCCTGGAATGGCGGGAGGGGAG  
GGCTGGGGGAGGATGGGGCTGTACATAAATACAGATTTTATTTTCGGAGGCAGAAATGGTATTGTTTAG  
TGGTGTGTGGGGGACCGGGCCAGAGCAGCTCCTTTCCAGGCTGGGTGAGCGCCACCCCACTCCAAG  
CATGAACTGGACTTGGCCATCTTTCCACACCCTGGGGAAGACATTTGCAACTGACTTGGGTGCGAGAGGA  
AGCAGCTCAGACAGTGTCTCCTGGGCAACCCCGCAGCAACCTCCGGCAGAGGATCCAGGTGTGCAAGT  
GGGTCACTTTTGCATAAAGCAACTTTGTGCCTGTCTACAAATGAACATTGTTCAAGTCAAGAGACTAT  
TGTTACTGAATTTATTTAAACGCTGAAGCTTTTGTGTTGATGAAAGAGTTCTTTGCACAAATGTCCTCA  
TTGTTTGACACCCAGTGTACTTGTCAATTTGCATAAGACAGCATTCTGACCACACTGTATGCTGTAACCT  
CATCTACTTCTGATGGTTTTTTAAAATATGATGACTCTAAGATTACAAAAACAATAACTTTTGTCTTT  
GTTTTCTGAAAAAAAATGTCAACAGTGTGAATTTTTCTTTAAATTTGTGTAGCATACGCAGTTTTGG  
TAAAGGAAGGCAACAGGTATTGGGTCTATTTAAACCCCTCCCAACAAGACAAGTCTCTTCTGTGTGA  
AATTTTCTGTACGTTCCATGTGCAGAGAAAAGCCTCCCCCTCTCCCCCGCCAGCCAGTGGTACTTC  
TAAATGTCTTGTGTTTTGTTTTATTTTTTTAAATAAACTGACAGATGACAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_007483

**Insert Size:** 591 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC018275](#), [AAH18275](#)

**RefSeq Size:** 2264 bp

**RefSeq ORF:** 591 bp

**Locus ID:** 11852

**UniProt ID:** [P62746](#)

**Cytogenetics:** 12 A1.1

**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]