

## Product datasheet for **RC236017**

### **RHOD (NM\_001300886) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RHOD (NM\_001300886) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RHOD  
**Synonyms:** ARHD; Rho; RHOHP1; RHOM  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236017 representing NM\_001300886  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACGGCGGCCAGGCCGCGGGTGAGGAGGCCACCAGGCGTGCGGTCCGTCAAGGTGGTCTGGTGG  
GCGACGGCGGCTGCGGGAAGACGTCGCTGCTGATGGTCTTCGCCGATGGGGCCTTCCCCGAGTGGTACCC  
AGAAGTGAATCATTCTGCAAGAAGGTACCCATCATCGTCGTGGGCTGCAAGACTGACCTGCGCAAGGAC  
AAATCACTGGTGAACAAGCTCCGAAGAAACGGATTGGAGCCTGTGACCTACCACAGGGGCCAGGAGATGG  
CGAGGTCCGTGGGCGCGGTGGCCCTACCTCGAGTGCTCGGCTCGGCTCCATGACAACGTCCACGCCGTCTT  
CCAGGAGCCGCGAGGTGGCCCTCAGCAGCCGCGGTGCGCAACTCTGGCGGCGGATTACCCAGGGCTTT  
TGCGTGGTGACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236017 representing NM\_001300886  
Red=Cloning site Green=Tags(s)

MTAAQAAGEEAPPGVRSVKVVLVGDGGCGKTSLLMVFADGAFPEWYEVNHFCKKVP IIVVGCKTDLRKD  
KSLVKNLRRNGLEPVTYHRGQEMARSVGAVAYLECSARLHDNVHAVFQEA AEVALSSRGRNFWRRI TQGF  
CVVT

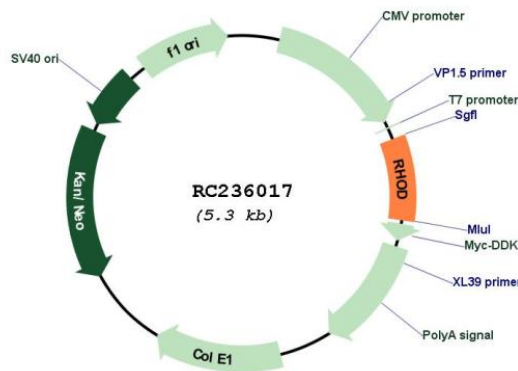
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001300886

**ORF Size:** 432 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001300886.2</a></u>
<b>RefSeq Size:</b>	952 bp
<b>RefSeq ORF:</b>	435 bp
<b>Locus ID:</b>	29984
<b>Cytogenetics:</b>	11q13.2
<b>Protein Pathways:</b>	Axon guidance
<b>MW:</b>	16.2 kDa
<b>Gene Summary:</b>	Ras homolog, or Rho, proteins interact with protein kinases and may serve as targets for activated GTPase. They play a critical role in muscle differentiation. The protein encoded by this gene binds GTP and is a member of the small GTPase superfamily. It is involved in endosome dynamics and reorganization of the actin cytoskeleton, and it may coordinate membrane transport with the function of the cytoskeleton. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]