

Product datasheet for RC201722

RHOD (NM 014578) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RHOD (NM_014578) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: RHOD

Synonyms: ARHD; Rho; RHOHP1; RHOM

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC201722 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201722 protein sequence

Red=Cloning site Green=Tags(s)

MTAAQAAGEEAPPGVRSVKVVLVGDGGCGKTSLLMVFADGAFPESYTPTVFERYMVNLQVKGKPVHLHIW DTAGQDDYDRLRPLFYPDASVLLLCFDVTSPNSFDNIFNRWYPEVNHFCKKVPIIVVGCKTDLRKDKSLV NKLRRNGLEPVTYHRGQEMARSVGAVAYLECSARLHDNVHAVFQEAAEVALSSRGRNFWRRITQGFCVVT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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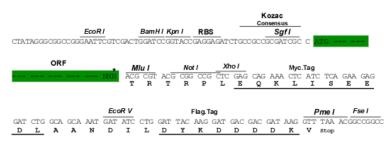


Chromatograms: https://cdn.origene.com/chromatograms/mk6301 f01.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_014578

ORF Size: 630 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.

RefSeg: NM 014578.4

RefSeq Size: 1150 bp RefSeq ORF: 633 bp Locus ID: 29984



UniProt ID: O00212

Cytogenetics: 11q13.2

Protein Pathways: Axon guidance

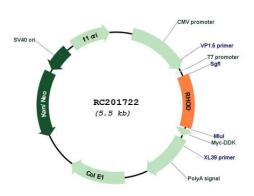
MW: 23.5 kDa

Gene Summary: Ras homolog, or Rho, proteins interact with protein kinases and may serve as targets for

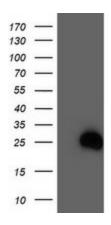
activated GTPase. They play a critical role in muscle differentiation. The protein encoded by this gene binds GTP and is a member of the small GTPase superfamily. It is involved in endosome dynamics and reorganization of the actin cytoskeleton, and it may coordinate membrane transport with the function of the cytoskeleton. Two transcript variants encoding

different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]

Product images:

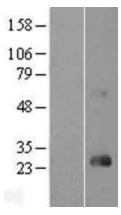


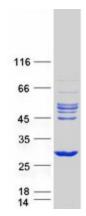
Circular map for RC201722



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RHOD (Cat# RC201722, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RHOD(Cat# [TA503891]). Positive lysates [LY415197] (100ug) and [LC415197] (20ug) can be purchased separately from OriGene.







Western blot validation of overexpression lysate (Cat# [LY415197]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201722 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified RHOD protein (Cat# [TP301722]). The protein was produced from HEK293T cells transfected with RHOD cDNA clone (Cat# RC201722) using MegaTran 2.0 (Cat# [TT210002]).