

Product datasheet for MR202278

Rhod (NM_007485) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rhod (NM_007485) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rhod
Synonyms: AI326383; Arhd; Rho; RhoHP1; RhoM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202278 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGAACCGTCCCAGGTTGCGGGAGAAGAGGCGCCGAGAGCGGGCACTCGGTCAAGGTGGTCTGGTGG
 GCGACGGGGGCTGCGGGAAGACGTCCTGATGATGGTCTTCGCCAAAGGGGCCTCCCAGAGAGCTACAG
 TCCACAGTGTGGAGCGCTATAATGCCACTCTGCAGATGAAGGGTAACTGTGCACCTCCAAATCTGG
 GACACAGCGGGCAAGATGACTATGACCGCCTCCGGCCCTTGTCTATCCTGATGCCAATGTCTTGCTCC
 TCTGCTTCGATGTGACCAATCCAAACAGCTTTGACAACGTCTCCAACCGGTGGTACCCAGAGGTGACACA
 TTTCTGCAAGGGAGTGCCCATCATTGTTGTGGGCTGCAAGATAGACCTGCGTAAGGACAAGGTGCTGGTG
 AACAACTGCGGAAGAAAAGACTGGAGCCCGTGACCTACCACAGGGGCCACGATATGGCAAGGTCTGTGG
 GAGCGGTGGCCTATCTTGAGTGTTCAGCTCGGCTCCATGACAACGTGGAAGCCGTCTCCAGGAAGCAGC
 AGAAGTGGCTCTCAGCAGTCGCAGACATAACTTTGGCGGCGGATTACTCAGAATTGTTGCTTGGCCACC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202278 protein sequence
 Red=Cloning site Green=Tags(s)

MNASQVAGEEAPQSGHSVKVVLVGDGGCGKTSLMMVFAKGAPESYSPTVFERYNATLQMKGKPVHLQIWI
 DTAGQDDYDRLRPLFYPDANVLLLCFDVTNPNSFDNVSNRWYPEVTHFCCKVPIIVVGCKIDLRKDKVLV
 NNLRRKRLPEVTYHRGHDMARSVGAVAYLECSARLHDNVEAVFQEAEEVALSSRRHNFWRITQNCCLAT

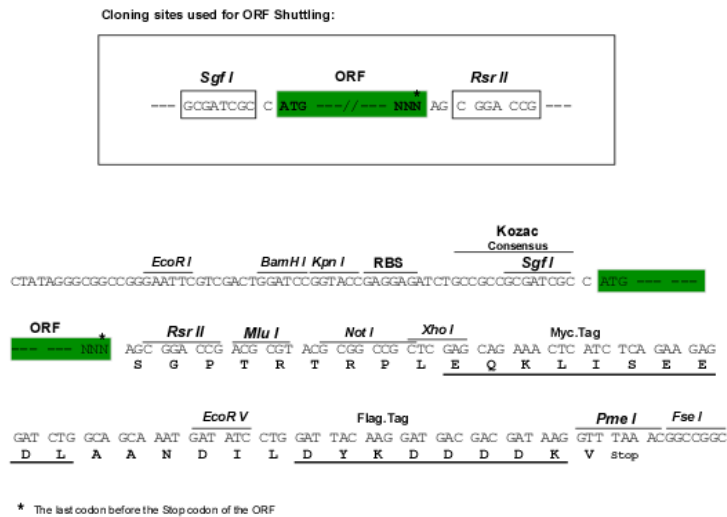
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_007485

ORF Size: 633 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: [NM_007485.5](#)

RefSeq Size: 1338 bp

RefSeq ORF: 633 bp

Locus ID: 11854

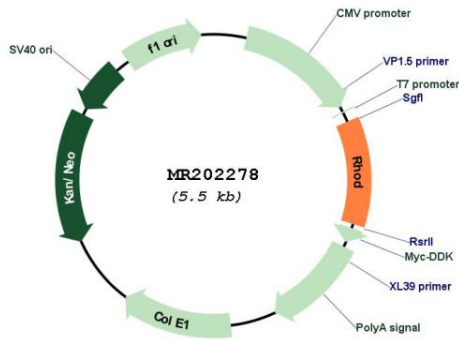
UniProt ID: [P97348](#)

Cytogenetics: 19 A

MW: 23.6 kDa

Gene Summary: Involved in endosome dynamics. May coordinate membrane transport with the function of the cytoskeleton. Involved in the internalization and trafficking of activated tyrosine kinase receptors such as PDGFRB. Participates in the reorganization of actin cytoskeleton; the function seems to involve WHAMM and includes regulation of filopodia formation and actin filament bundling. Can modulate the effect of DAPK3 in reorganization of actin cytoskeleton and focal adhesion dissolution.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202278