OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR202289

Rhof (NM_175092) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK

Symbol: Rhof

Synonyms: AI845056; Arhf; AV026554; Ifld1; Rif

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR202289 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGCCCCGGGTGCTCCGGCCCCAGCCGCCGCCCCCAGCTCGGCGAGGAAGGAGCTGAAGATAGTGA
TCGTAGGTGACGGCGGCTGCGGCAAGACGTCCCTGCTAATGGTGTACTGCCAAGGCTCATTTCCCGAGCA
CTACGCCCCGTCGGTGTTTGAGAAGTACACGGCTAGTGTGACAGTGGGTAACAAGGAGGTGACCCTGAAC
CTCTACGACACGGCTGGGCAGGAAGACTACGATAGGCTGCGGCCCTTGTCCTACCAGAACACACACCTCG
TCCTCATCTGCTACGATGTCATGAACCCCACCAGTTACGACAACGTCCTCATCAAGTGGTTCCCCGAAGT
CACACATTTCTGCCGAGGGATCCCCACGGTGCTCATCGGCTGCAAGACAGACCTGAGGAAGGACAAGGAG
CAGTTGCGGAAACTCCGGGCAGCTCAGCTGGAGCCTATTACCTACACACAGGGCCTGAATGCCTGTGAAC
AGATGCGAGGTGCACTCTATCTGGAATGTTCTGCCAAGTTTCGGGAGAATGTGGAAGATGTCTTCAGGGA
AGCCGCCAAGGTGGCCCTCAGCGCCCTGAAGAAAGCGCAGAGACAGAAAAAACACAGGATCTGCCTGCTG
CTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

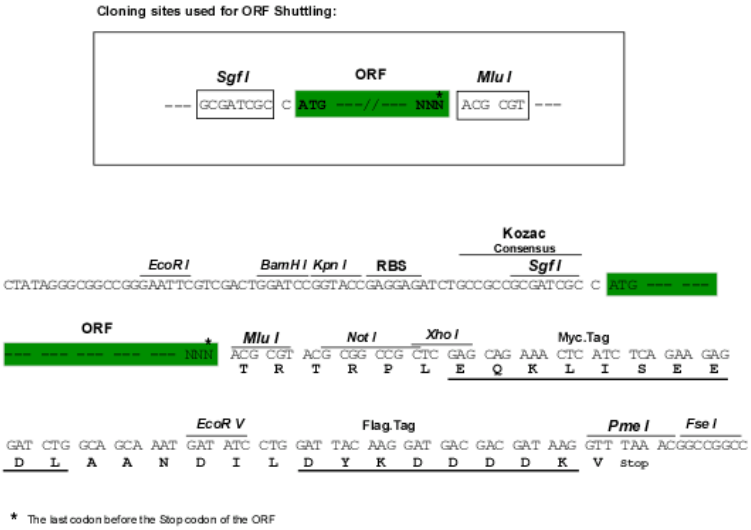
>MR202289 protein sequence
Red=Cloning site Green=Tags(s)

MDAPGAPAPAAAPSSARKELKIVIVGDGGCGKTSLLMVYCQGSFPEHYAPSVFEKYTASVTVGNKEVTLN
LYDTAGQEDYDRLRPLSYQNTHLVLICYDVMNPTSYDNVLIKWFPEVTHFCRGIPTVLIGCKTDLRKDKE
QLRKLRAAQLEPITYTQGLNACEQMRGALYLECSAKFRENVEDVFREAAKVALSALKKAQRQKKHRICLL
L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175092

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_175092.3, NP_780301.1

RefSeq Size: 2143 bp

RefSeq ORF: 636 bp

Locus ID: 23912

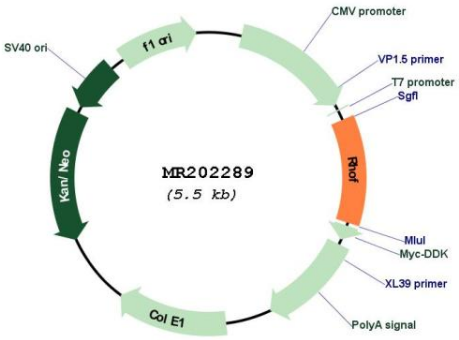
UniProt ID: Q8BYP3

Cytogenetics: 5 62.77 cM

MW: 23.6 kDa

Gene Summary: Plasma membrane-associated small GTPase which cycles between an active GTP-bound and an inactive GDP-bound state. Causes the formation of thin, actin-rich surface projections called filopodia. Functions cooperatively with CDC42 and Rac to generate additional structures, increasing the diversity of actin-based morphology (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202289