

Product datasheet for **MG202150**

Rhoq (NM_145491) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rhoq (NM_145491) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rhoq
Synonyms: Arhq; Tc10; TC10A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202150 representing NM_145491
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCTCACGGGCGCGCTGATGCTGAAGTGCCTGGTGGTGGCGGACGGGGCGGTGGGCAAGACGT
GCCTGCTCATGAGCTATGCCAACGACGCCTTCCCCGAGGAGTACGTGCCACTGTCTTCGACCCTACGC
AGTCAGCGTCACCGTGGGGGCAAGCAGTACCTCTGGGACTCTATGACACAGCTGGACAGGAAGACTAT
GATCGTCTGAGGCCTTTATCTTACCCATGACTGACGTCTTCTCATATGCTTCCGTGGTAAATCCAG
CCTCGTTTCAAAATGTAAAGGAAGAGTGGGTACCAGAGCTAAAGGAATATGCGCCAAACGTCCTTCTT
GTTAATAGGAACTCAGATTGATCTCCGAGATGACCCAAAACCTTTAGCAAGACTGAATGACATGAAAGAA
AAACCTGTCTGTGTGGAACAAGGACAGAACTAGCAAAAGAGATAGGTGCATGCTGCTATGTGGAGTGT
CAGCTTTAACCCAGAAGGGTTTGAAGACTGTGTTTGTAGAGGCTATCATAGCCATTTAACTCCAAGAA
ACACACAGTAAAAAAGAATAGGATCAAGATGTATAAACTGTTGTTTGATTACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202150 representing NM_145491
Red=Cloning site Green=Tags(s)

MAHGPGALMLKCVVVDGAVGKTCLLMSYANDAFPEEYVPTVFDHYAVSVTVGGKQYLLGLYDTAGQEDY
DRLRPLSYPMTDVFLICFSVNPASFQNVKEEWVPELKEYAPNPVFLFIGTQIDLRDDPKTLARLNDMKE
KPVCVEQGQKLAKEIGACCYVECSALTQKGLKTVFDEAIIAILTPKKHTVKKRIGSRCINCLIT

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

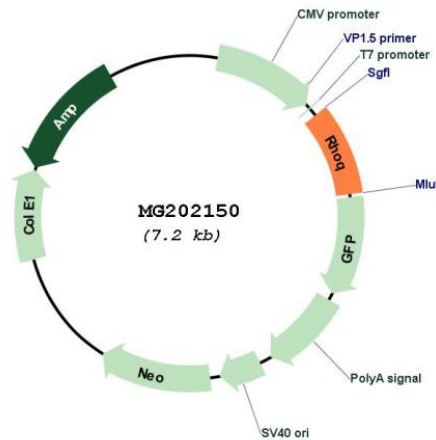


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_145491

ORF Size: 615 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_145491.2](#), [NP_663466.2](#)

RefSeq Size: 4159 bp

RefSeq ORF: 618 bp

Locus ID: 104215

UniProt ID: [Q8R527](#)

Cytogenetics: 17 56.9 cM

Gene Summary: Plasma membrane-associated small GTPase which cycles between an active GTP-bound and an inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate cellular responses. Involved in epithelial cell polarization processes. May play a role in CFTR trafficking to the plasma membrane. Causes the formation of thin, actin-rich surface projections called filopodia (By similarity).[UniProtKB/Swiss-Prot Function]