

Product datasheet for **RG236441**

RHOH (NM_001278363) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RHOH (NM_001278363) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RHOH
Synonyms: ARHH; TTF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236441 representing NM_001278363.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGAGTTCCATCAAGTGCGTTGGTGGGCGACTCTGCTGTGGGAAAACCTCTCTGTTGGTGCGC
TTCACCTCCGAGACCTTCCCGGAGGCCTACAAGCCACAGTGTACGAGAACACAGGGGTGGACGCTTTC
ATGGATGGCATCCAGATCAGCCTGGCCTCTGGGACACAGCCGGCAATGACGCCTCAGAAGCATCCGG
CCCCTGCTCTACCAGCAGGCAGAGCTGGTGTGATGTGCTACTCTGTGGCAACCATAACTATTCTG
AACTTGAAGAACAAGTGGATTGGTAAAATTAGGAGCAACTGCCCTGTACCCCTGTCTGGTGGTGGCC
ACCCAGACTGACCAGCGGAGATGGGGCCCCACAGGGCCTCTGCGTCAATGCCATGGAAGGAAGAAA
CTGGCCCAGGATGTCAGAGCCAAGGGCTACCTGGAGTGCTCAGCCCTTAGCAATCGGGGAGTACAGCAG
GTGTTTGAAGTGCCGCCGTCGGAACTGCCGTCAACAGGCCAGGAGACGAAACAGAAGGAGGCTCTTCTCC
ATCAATGAGTGAAGATCTTC
ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236441
Blue=ORF Red=Cloning site Green=Tag(s)

```
MLSSIKCVLVGDSAVGKTSLLVRFVTFPEAYKPTVYENTGVDVFMDCIQLSLGLWDTAGNDAFRSIR
PLSYQQADVLMCYSVANHNSFLNLKKNWIGEIRSNLPCTPVLVATQTDQREMGPFRASCVNAMEGKK
LAQDVRAGKYLECSALSNRGVQVFECAVRTAVNQARRRNRRLFSINECKIF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

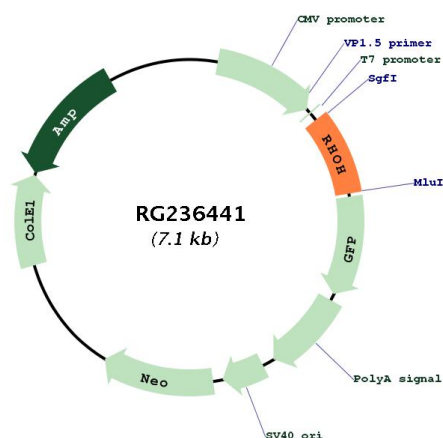
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001278363

ORF Size: 573 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).

RefSeq: [NM_001278363.1](#), [NP_001265292.1](#)

RefSeq Size: 2114 bp

RefSeq ORF: 576 bp

Locus ID: 399

UniProt ID: [Q15669](#)

Cytogenetics: 4p14

Protein Families: Transcription Factors

Protein Pathways: Leukocyte transendothelial migration

MW: 21.3 kDa

Gene Summary: The protein encoded by this gene is a member of the Ras superfamily of guanosine triphosphate (GTP)-metabolizing enzymes. The encoded protein is expressed in hematopoietic cells, where it functions as a negative regulator of cell growth and survival. This gene may be hypermutated or misexpressed in leukemias and lymphomas. Chromosomal translocations in non-Hodgkin's lymphoma occur between this locus and B-cell CLL/lymphoma 6 (BCL6) on chromosome 3, leading to the production of fusion transcripts. Alternative splicing in the 5' untranslated region results in multiple transcript variants that encode the same protein. [provided by RefSeq, May 2013]