

Product datasheet for RC205367

RIT2 (NM_002930) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RIT2 (NM_002930) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: RIT2

Synonyms: RIBA; RIN; ROC2

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC205367 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205367 protein sequence

Red=Cloning site Green=Tags(s)

MEVENEASCSPGSASGGSREYKVVMLGAGGVGKSAMTMQFISHQFPDYHDPTIEDAYKTQVRIDNEPAYL DILDTAGQAEFTAMREQYMRGGEGFIICYSVTDRQSFQEAAKFKELIFQVRHTYEIPLVLVGNKIDLEQFRQVSTEEGLSLAQEYNCGFFETSAALRFCIDDAFHGLVREIRKKESMPSLMEKKLKRKDCLWKKLKGSLK

KKRENMT

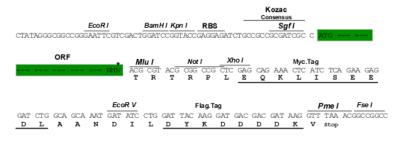
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6026 a10.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_002930

ORF Size: 651 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by

calling 301.340.3188 option 3 for pricing and delivery.

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

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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: <u>NM 002930.4</u>

 RefSeq Size:
 1102 bp

 RefSeq ORF:
 654 bp

 Locus ID:
 6014

 UniProt ID:
 Q99578

Domains: ras, RAS, RHO, RAB

18q12.3

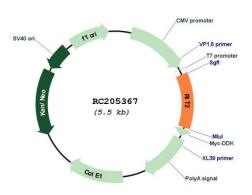
MW: 24.7 kDa

Gene Summary: RIN belongs to the RAS (HRAS; MIM 190020) superfamily of small GTPases (Shao et al., 1999

[PubMed 10545207]).[supplied by OMIM, Mar 2008]

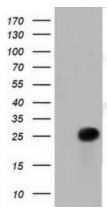
Product images:

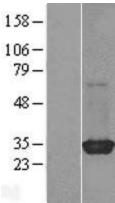
Cytogenetics:

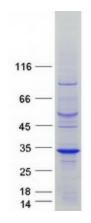


Circular map for RC205367









HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RIT2 (Cat# RC205367, 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-RIT2(Cat# [TA501704]). Positive lysates [LY401022] (100ug) and [LC401022] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY401022]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205367 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified RIT2 protein (Cat# [TP305367]). The protein was produced from HEK293T cells transfected with RIT2 cDNA clone (Cat# RC205367) using MegaTran 2.0 (Cat# [TT210002]).