

## Product datasheet for **RC231866**

### RIT2 (NM\_001272077) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RIT2 (NM\_001272077) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RIT2  
**Synonyms:** RIBA; RIN; ROC2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC231866 representing NM\_001272077  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGGTAGAAAATGAAGCCAGCTGCTCCCCGGGCAGCGCATCAGGCGGGTCCAGAGAGTACAAGGTGG  
TAATGCTGGGAGCAGGGGAGTTGGTAAAAGCGCAATGACAATGCAGTTTATTAGTCATCAGTTCCTCGA  
TTATCATGACCCTACTATAGAAGATGCTTATAAGACCCAGGTGAGATTGACAATGAGCCAGCTTACTTG  
GACATCTTGGACTGCTGGCCAGGCAGAAATTCACAGCCATGCGGGAGCAGTACATGCGAGGTGGGGAAG  
GCTTCATCATCTGCTACTCCGTCCTGACCGTCAATCATTTCAGGAGGCTGCCAAGTTTAAAGAGCTCAT  
TTTTAGGTCCGCCACACCTATGAAATCCCCTGGTGGTGGGTAACAAAATTGATCTGGAACAGTTC  
CGCCAGCCTACACTGAAAGAGTTTGAAGGGAAGAATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231866 representing NM\_001272077  
Red=Cloning site Green=Tags(s)  
MEVENEASCSPGSASGGSREYKVVMLGAGGVGKSAMTMQFISHQFPDYHDPTIEDAYKTQVRIDNEPAYL  
DILDTAGQAEFTAMREQYMRGGEGFIICYSVTD RQSFQEA AKFKELIFQVRHTYEIPLVLVGNKIDLEQF  
RQPTLKEFGREEF

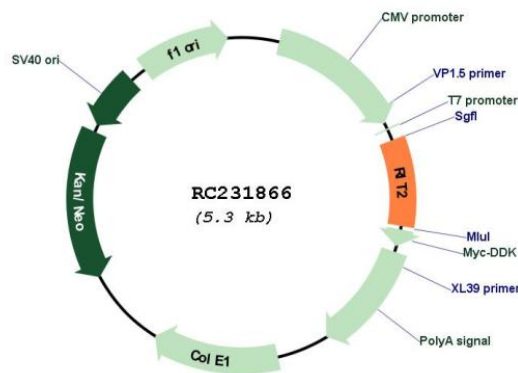
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



[View online »](#)

**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001272077

ORF Size: 459 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001272077.1, NP_001259006.1</u>
<b>RefSeq Size:</b>	1166 bp
<b>RefSeq ORF:</b>	462 bp
<b>Locus ID:</b>	6014
<b>UniProt ID:</b>	<u>Q99578</u>
<b>Cytogenetics:</b>	18q12.3
<b>MW:</b>	17.8 kDa
<b>Gene Summary:</b>	RIN belongs to the RAS (HRAS; MIM 190020) superfamily of small GTPases (Shao et al., 1999 [PubMed 10545207]).[supplied by OMIM, Mar 2008]