

## Product datasheet for **MG202437**

### Rit2 (NM\_009065) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rit2 (NM_009065) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rit2
Synonyms:	RIBA; Rin; Roc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202437 representing NM_009065 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGTAGAAAACGAAGCCCACTGCTGCCCTGGCAGCTCATCAGGCGGGTCCAGAGAGTACAAGGTGG  
TAATGCTGGGCGCAGGGGGCGTTGGTAAAAGCGCAGTCACAATGCAGTTTATAAGCCACCAGTCCCGGA  
CTATCACGACCCACAATCGAAGATGCTTATAAAACCCAGGTGAGGATTGATAATGAGCCTGCTTACTTA  
GACATCTTGACTGCTGGTCAAGGAGAGTTCACGGCCATGCGGGAGCAGTACATGCGTGGGGGAGAGG  
GCTTCATCATCTGCTATTCTGTCACTGACCGCCAGTCATTCCAGGAGGCTGCCAAGTTCAAGGAGCTTAT  
TTTCCAGGTCCGTCACACCTATGAAATCCCTTGTGCTAGTGGGTAACAAAATTGACTTGAGCAGTTC  
CGTCAGGTATCTACAGAAGAAGGCATGAATCTTGCTCGAGACTACAACCTGTGCCTCTTTGAGACATCTG  
CAGCCCTGCGATTTCGGTATCGATGATGCTTTTCAAGGCTTAGTGAGAGAAATTCGAGGAAGGAATCCAT  
GCTGTCTTGGTGGAAAGGAAATTGAAGAGGAAGGACAGCCTGTGGAAGAAGATAAAAAGCCTCCCTGAAG  
AAGAAGAGAGAAAACATGTTG

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202437 representing NM\_009065  
Red=Cloning site Green=Tags(s)

MEVENEAHCCPGSSSGSREYKVVMLGAGGVGKSAVTMQFISHQFPDYHDPTIEDAYKTQVRIDNEPAYL  
 DILDTAGQAEFTAMREQYMRGGEGFIICYSVTRQSFQEAAKFKELIFQVRHTYEIPLVLVGNKIDLEQF  
 RQVSTEEGMNLARDYNCAFFETSAAALRFGIDDAFQGLVREIRRKESMLSLVERKLRKDSLWKKIKASLK  
 KKRENML

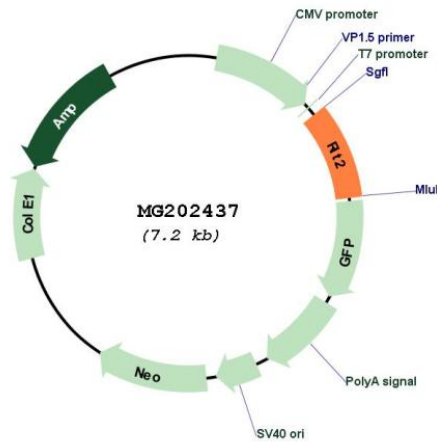
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_009065

**ORF Size:** 651 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_009065.2</a> , <a href="#">NP_033091.1</a>
<b>RefSeq Size:</b>	1851 bp
<b>RefSeq ORF:</b>	654 bp
<b>Locus ID:</b>	19762
<b>UniProt ID:</b>	<a href="#">P70425</a>
<b>Cytogenetics:</b>	18 B1
<b>Gene Summary:</b>	Binds and exchanges GTP and GDP. Binds and modulates the activation of POU4F1 as gene expression regulator.[UniProtKB/Swiss-Prot Function]