

## Product datasheet for **MG218834**

### Rph3al (NM\_029548) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rph3al (NM\_029548) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Rph3al  
**Synonyms:** Gm1753; Noc2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG218834 representing NM\_029548  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGACACCATCTTCAGCAGTGAAATGATCAGTGGGTTTGCCCAACGATCGGCAGCTTGCTCTGA  
 GAGCCAAGCTGCAGACGGGCTGGTCTGTGCACACGTACCAGACGGAGAAGCAGAGGAGGAGCCAGTGCCT  
 GAGCCCCGGAGAGCTGGAGATCATCCTCAGGTCATCCAGAGAGCAGAGAGGCTAGACATCTGGAGCAG  
 CAGAGAATTGGGCGGCTGGTGGAGCGGCTGGAGACAATGCAGAGGAACGTGATGGCAACGGTCTCTCCC  
 AGTGTCTGCTCTGCGGGAGGTGCTGGGATTCTGGGCAGCTCCTCCGTATTCTGCAAAGACTGCAGGAA  
 GAAAGTCTGCACCAAGTGTGGGATCGAGGCTTCCCCGGCCAGAAGCGGCCCTGTGGCTGTGTAAGATC  
 TGCAGTGAGCAGAGAGAGGTCTGGAAGAGGTGAGGGCCTGGTTCTACAAGGGCTCCCCAAGTACATCT  
 TGCCCCGAAAACCCCTGGCCGGGCTGATGATCCCCACTTCCGACCTCTGCCTGTGGAGCCACAGAAAAC  
 ACAGCCTCCGAGTGTGAAACCAGCCGTGTCTACACATGGGCCCGAGGGAGAGTGGTTTCCAGTGACAGT  
 GACAGTGACTCAGATCTCAGCTCCTCCAGCCTGGAGGACAGACCTTGCCTCTGGGGTCAAGGGCACAA  
 AAGGTGACAAGCCTAGAGGGGACTCAGGTGCCAGCATGGAGTACCCAGGCTGGGCCTGCCCGTCCACC  
 CAGCCATCTCTCGGCAGTCAGAGCAGCCTAGGCAGTGGGCTGGGACAGGTGCTACAGAGCCACAGGGA  
 GGCACCCAGCCAGCCTGAGCCAGGGTACCCGGCAAAGACACACATGGGCAACTCCCCGCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218834 representing NM\_029548  
 Red=Cloning site Green=Tags(s)

MADTIFSSGNDQWVCPNDRQLALRAKLQTGWSVHTYQTEKQRRSQCLSPGELEIILQVIQRAERLDILEQ  
 QRIGRLVERLETMQRNVMGNLSQCLLCGEVLGFLGSSSVFCKDCRKKVCTKCGIEASPGQKRPLWLCCKI  
 CSEQREVWKRSGAWFYKGLPKYILPLKTPGRADDPHFRPLPVEPTETQPPSAETSRVYTWARGRVSSDS  
 DSDSDLSSSLEDRLPSGVKGTGDKPRGDSGAMESPRLGPARPPSHLSGSQSSLGSEAGTGATEPQG  
 GTPAQPEPRVPGKRHTWATPRY

TRTRPLE - GFP Tag - V

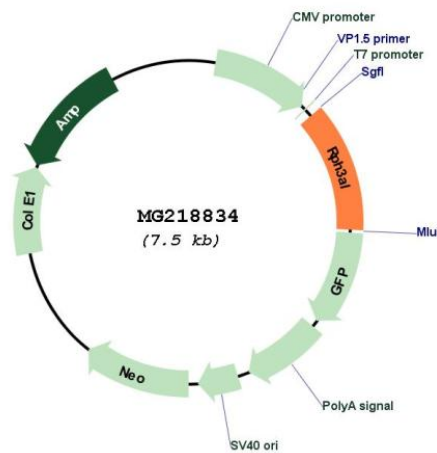
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_029548

ORF Size: 906 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_029548.4</a> , <a href="#">NP_083824.1</a>
<b>RefSeq Size:</b>	931 bp
<b>RefSeq ORF:</b>	909 bp
<b>Locus ID:</b>	380714
<b>UniProt ID:</b>	<a href="#">Q768S4</a>
<b>Cytogenetics:</b>	11 B5
<b>Gene Summary:</b>	Rab GTPase effector involved in the late steps of regulated exocytosis, both in endocrine and exocrine cells. Regulates the exocytosis of dense-core vesicles in neuroendocrine cells through interaction with RAB27A. Acts as a potential RAB3B effector protein in epithelial cells. [UniProtKB/Swiss-Prot Function]