

## Product datasheet for **MC225879**

### Rph3al (NM\_001291159) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rph3al (NM\_001291159) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rph3al  
**Synonyms:** Gm1753; Noc2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225879 representing NM\_001291159  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTGACACCATCTTCAGCAGTGGAAATGATCAGTGGGTTTGCCCCAACGATCGGCAGCTTGCTCTGA  
GAGCCAAGCTGCAGACGGGCTGGTCTGTGCACACGTACCAGACGGAGAAGCAGAGGAGGACCCAGTGCCT  
GAGCCCCGGAGAGCTGGAGATCATCCTTCAGGTATCCAGAGAGCAGAGAGGCTAGACATCCTGGAGCAG  
CAGAGAATTGGGCGGCTGGTGGAGCGGCTGGAGACAATGCAGAGGAACGTGATGGCAACGGTCTCTCCC  
AGTGTCTGCTCTGCGGGGAGGTGCTGGGATTCTGGGCAGCTCCTCCGTATTCTGCAAAGACTGCAGGAA  
GCTTGGGATCCGCTGGCTGCAGCACTTCTAGAAAGCCTGCTGATTCTGAACAGAGATCTCACGTGCTCC  
TTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001291159  
**Insert Size:** 426 bp  
**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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><a href="#">NM_001291159.1</a></u> , <u><a href="#">NP_001278088.1</a></u>
<b>RefSeq Size:</b>	1708 bp
<b>RefSeq ORF:</b>	426 bp
<b>Locus ID:</b>	380714
<b>UniProt ID:</b>	<u><a href="#">Q768S4</a></u>
<b>Cytogenetics:</b>	11 B5
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks several exons, and uses an alternate 3'-terminal exon, compared to variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a shorter and distinct C-terminus, compared to isoform 1.</p>