

## Product datasheet for **RG232458**

### **RPH3AL (NM\_001190411) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RPH3AL (NM\_001190411) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RPH3AL  
**Synonyms:** NOC2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG232458 representing NM\_001190411  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGACACCATCTTCGGCAGCGGGAATGATCAGTGGGTTTGCCCAATGACCGGCAGCTTGCCCTTC  
GAGCCAAGCTGCAGACGGGCTGGTCCGTGCACACCTACCAGACGGAGAAGCAGAGGAGGAAGCAGCACCT  
CAGCCCGCGGAGGTGGAGGCCATCCTGCAGGTCATCCAGAGGGCAGAGCGGCTCGACGCTCTGGAGCAG  
CAGAGAATCGGGCGGCTGGTGGAGCGGCTGGAGACCATGAGGCGGAATGTGATGGGGAACGGCCTGTCCC  
AGTGTCTGCTCTGCGGGAGGTGCTGGGCTTCCGGGCAGCTCGTCGGTGTCTGCAAAGACTGCAGGAA  
GAAAGTCTGCACCAAATGTGGGATCGAGGCCTCCCTGGCCAGAAGCGGCCCTGTGGCTGTGTAAGATC  
TGCACTGAGCAAAGAGAGGTCTGGAAGAGTTCGGGGCCTGGTTCTACAAAGGGTCCCCAAGTATATCT  
TGCCCCGAAGACCCCTGGCCGAGCTGATGACCCCACTTCGACCTTTGCCACGGAACCGGCAGAGCG  
AGAGCCCAGAAGCTCTGAGACCAGCCGATCTACACGTGGGCCCGAGGAAGAGTGGTTTCCAGTGACAGT  
GACAGTGACTCGGATCTTAGCTCCTCCAGCCTAGAGGACAGACTCCCATCCACTGGGGTCAGGGACCGGA  
AAGGCGACAAACCCTGGAAGGAGTCAGGTGGCAGCGTGGAGGCCCGGATGGGTTTACCCACCCGCC  
GGGCCACCTCTGGGTGCCAGAGCAGCCTGGCCAGTGGTGAGACGGGGACAGGCTCTGCTGACCCGCCA  
GGGGACCCCGCCCGGCTGACCGAAGGGCCCGGTAAGACACACCTGGACGAGCCCCCGTCTGCTG  
ACGCAGCTCCAGCAGGCCCTCCAGCTGCCTGGGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232458 representing NM\_001190411  
Red=Cloning site Green=Tags(s)

MADTIFGSGNDQWVPCNDRQLALRAKLQTGWSVHTYQTEKQRRKQHLSPAEEVAI LQVIQRAERLDVLEQ  
 QRIGRLVERLETMRNVMGNGLSQCLLCGEVLGFLGSSSVFCKDCRKKVCTKCGIEASPGQKRPLWCKI  
 CSEQREVWKRSGAWFYKGLPKYILPLKTPGRADDPHFRPLPTEPAEREPRSSSETSRIYTWARGRVVSSDS  
 DSDSDLSSSLEDRLPSTGVRDRKGDKPWKEGGSVVEAPRMGFTHTPPGHLSGCQSSLASGETGTGSADPP  
 GGPRPGLTRRAPVKDTPGRAPAADAAPAGPSSCLG

TRTRPLE - GFP Tag - V

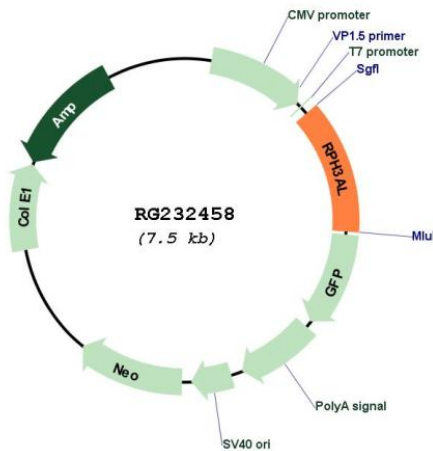
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001190411

**ORF Size:** 945 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_001190411.1</a> , <a href="#">NP_001177340.1</a>
<b>RefSeq Size:</b>	2578 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	9501
<b>UniProt ID:</b>	<a href="#">Q9UNE2</a>
<b>Cytogenetics:</b>	17p13.3
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	The protein encoded by this gene plays a direct regulatory role in calcium-ion-dependent exocytosis in both endocrine and exocrine cells and plays a key role in insulin secretion by pancreatic cells. This gene is likely a tumor suppressor. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jun 2010]