

## Product datasheet for **RC232458**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RPH3AL (NM\_001190411) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RPH3AL  
**Synonyms:** NOC2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232458 representing NM\_001190411  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCGACACCATCTTCGGCAGCGGAATGATCAGTGGGTTTGCCCAATGACCGGCAGCTTGCCCTTC  
GAGCCAAGCTGCAGACGGGCTGGTCCGTGCACACCTACCAGACGGAGAAGCAGAGGAGGAAGCAGCACCT  
CAGCCCGCGGAGGTGGAGGCCATCCTGCAGGTCATCCAGAGGGCAGAGCGGCTCGACGCTCTGGAGCAG  
CAGAGAATCGGGCGGCTGGTGGAGCGGCTGGAGACCATGAGGCGGAATGTGATGGGGAACGGCCTGTCCC  
AGTGTCTGCTCTGCGGGGAGGTGCTGGGCTTCTGGGCAGCTCGTCGGTGTCTGCAAAGACTGCAGGAA  
GAAAGTCTGCACCAAATGTGGGATCGAGGCCTCCCCTGGCCAGAAGCGGCCCTGTGGCTGTGTAAGATC  
TGCAGTGAGCAAAGAGAGGTCTGGAAGAGGTGGGGGCTGGTTCTACAAAGGGCTCCCCAAGTATATCT  
TGCCCTGAAGACCCCTGGCCGAGCTGATGACCCCACTCCGACCTTTGCCACGGAACCGGCAGAGCG  
AGAGCCCAGAAGCTCTGAGACCAGCCGATCTACACGTGGGCCCGAGGAAGAGTGGTTTCCAGTGACAGT  
GACAGTGACTCGGATCTTAGCTCCTCCAGCCTAGAGGACAGACTCCCATCCACTGGGGTCAGGGACCGGA  
AAGGCGACAACCCTGGAAGGAGTCAGGTGGCAGCGTGGAGGCCCGCCAGGATGGGTTTACCCACCCGCC  
GGGCCACCTCTCTGGGTGCCAGAGCAGCCTGGCCAGTGGTGAGACGGGGACAGGCTCTGCTGACCCGCCA  
GGGGGACCCCGCCCGGCTGACCCGAAGGGCCCGGTAAAAGACACACCTGGACGAGCCCCGCTGCTG  
ACGCAGCTCCAGCAGGCCCTCCAGCTGCCTGGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232458 representing NM\_001190411  
Red=Cloning site Green=Tags(s)

MADTIFGSGNDQWVCPNDRQLALRAKLQTGWSVHTYQTEKQRRKQHLSPAEEVAILQVIQRAERLDVLEQ  
 QRIGRLVERLETMRNVMGNGLSQCLLCGEVLGFLGSSSVFCKDCRKKVCTKCGIEASPGQKRPLWLCIKI  
 CSEQREVWKRSGAWFYKGLPKYILPLKTPGRADDPHFRPLPTEPAEREPRSSSETSRIYTWARGRVSSDS  
 DSDSDLSSSLEDRLPSTGVRDRKGDKPWKEGGSVVEAPRMGFTHPPGHLSGCQSSLASGETGTGSADPP  
 GGPRPGLTRRAPVKDTPGRAPAADAAPAGPSSCLG

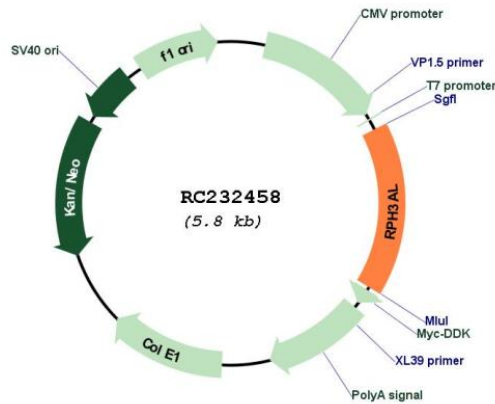
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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>MW:</b>	34.9 kDa
<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]