

## Product datasheet for SC115763

### RPH3AL (NM\_006987) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPH3AL (NM_006987) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPH3AL
Synonyms:	NOC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115763 sequence for NM_006987 edited (data generated by NextGen Sequencing)

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ATGGCCGACACCATCTTCGGCAGCGGGAATGATCAGTGGGTTTGCCTCAATGACCGGCAG
CTTGCCCTTCGAGCCAAGCTGCAGACGGGCTGGTCCGTGCACACCTACCAGACGGAGAAG
CAGAGGAGGAAGCAGCACCTCAGCCCGGCGGAGGTGGAGGCCATCCTGCAGGTCATCCAG
AGGGCAGAGCGGCTCGACGTCTGGAGCAGCAGAGAATCGGGCGGCTGGTGGAGCGGCTG
GAGACCATGAGGCGGAATGTGATGGGGAACGGCCTGTCCAGTGTCTGCTCTGCGGGGAG
GTGCTGGGCTTCCTGGGCAGCTCGTCGGTGTCTGCAAAGACTGCAGGAAGAAAGTCTGC
ACCAAATGTGGGATCGAGGCCTCCCTGGCCAGAAGCGGCCCTGTGGCTGTGTAAGATC
TGCAGTGAGCAAAGAGAGGTCTGGAAGAGGTCGGGGGCTGGTTCTACAAAGGGCTCCCC
AAGTATATCTTGGCCCTGAAGACCCTGGCCGAGCTGATGACCCCACTCCGACCTTTG
CCCACGGAACCGCAGAGCGAGAGCCCAGAAGCTCTGAGACCAGCCGCATCTACACGTGG
GCCCGAGGAAGAGTGGTTTCCAGTGACAGTGACAGTGACTCGGATCTTAGCTCCTCCAGC
CTAGAGGACAGACTCCCATCCACTGGGGTCAGGGACCGGAAAGGCGACAAACCCTGGAAG
GAGTCAGGTGGCAGCGTGGAGGCCCCAGGATGGGGTTCACCCACCCGCCGGCCACCTC
TCTGGGTGCCAGAGCAGCCTGGCCAGTGGTGGAGACGGGACAGGCTCTGCTGACCCGCCA
GGGGGACCCCGCCCGGGCTGACCCGAAGGGCCCGGTAAGACACACCTGGACGAGCC
CCCCTGCTGACGAGCTCCAGCAGGCCCTCCAGCTGCCTGGGCTGA

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Clone variation with respect to NM\_006987.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006987 unedited  
 TGTCAACATTTGTATACGACTCATATAGCGGCNCGCGATTTCGGCACGAGGCTGGGTGAA  
 GCCCCTCTGTTCCCGATGTGACTCCCAACCCCCAGCCGGGTGCTCCGAGCCATGGCCGAC  
 ACCATCTTCGGCAGCGGGAATGATCAGTGGGTTTGCCCAATGACCGGCAGCTTGCCCTT  
 CGAGCCAAGCTGCAGACGGGCTGGTCCGTGCACACCTACCAGACGGAGAAGCAGAGGAGG  
 AAGCAGCACCTCAGCCCCGGGAGGTGGAGGCCATCCTGCAGGTCATCCAGAGGGCAGAG  
 CGGCTCGACGTCCTGGAGCAGCAGAGAATCGGGCGGCTGGTGGAGCGGCTGGAGACCATG  
 AGGCGGAATGTGATGGGGAACGGCCTGTCCAGTGTCTGCTCTCGGGGAGGTGCTGGGC  
 TTCTGGGCAGCTCGTCCGTGTTCTGCAAAGACTGCAGGAAGAAAAGTCTGCACCAATGT  
 GGGATCGAGGCCTCCCCTGGCCAGAAGCGGCCCTGTGGCTGTGTAAGATCTGCAGTGAG  
 CAAAGAGAGGTCTGGAAGAGGTGGGGGCTGGTCTACAAAGGGCTCCCCAAGTATATC  
 TTGCCCTGAAGACCCCTGGCCGAGCTGATGACCCCCACTTCCGACCTTTGCCACGGAA  
 CCGGCAGAGCGAGAGCCAGAAGCTCTGAGACCAGCCGCATCTACACGTGGGCCCNAGA  
 AGAGTGGTTTCCAGTGACAGTGACAGTGACTCGGATCTTAGCTCCTCCAGCCTAGAGGAC  
 AGACTCCCATCCACTGGGTGTCAGGGACCGAAAGGCGANCAACCCCTGNAAGGAGTCANGT  
 GGCAGCGTGGAAGCCCCAGNATGGGGTTACCCACCCCGCGGCCACCTCTCTGGGTGCC  
 AGAGCAGCCTGGCCAGTGGTGAACGGGACAGCT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006987 unedited  
 GGGGCNACCNCNCNNTTTTTNNNNNNNTTTTNTTGNACGCGGCCGATACTAGATCGG  
 TNNTTTTTTTTTTTTTTTTTTAAATTTAATCTTCTTGTTTTAAATCTGAAGCTAACGTG  
 CCACAGGAAAAGTGAGTTTCTTTACTGTTTCCAGCAGCAAGGACAAAAAGTGAATGGTG  
 GGGGCCAGGAGCTCCCAGCTTGGAGAGAAGGCCCTTCCAGACCCAGGAACCCGGGGTTT  
 GGGGCAGGAGGCAGGAAGGATGGGAGGGTGTGATCACCGACACACACACACAGTTCTCT  
 CTCTTCAGGGAAGGGTTTTCCAGAAGCATTGGCCATACTCTGAATGAAGTATTTTCATG  
 CCAAGCCAAACCTCCTGAAGAGAAGTGAATTCATGGCTGAGGGAGCCACGTGCCCTGGCT  
 GGGGATGCACCTGAACGCTGCTCTTCAGCAAGTGAGTTTCATAGCATCCACCAGAGCTTCC  
 CAGCTCCTCAAGCTGAAGACAGGCTGAGCAAAAACCAGGCAGGCCATGAGGGGATTCAA  
 GAAACCTAATAGGATTGGGTGCGGTGGCTCACACCTGTAATCCCAGCACTTTTGGAGGCC  
 GAGGCGGGCGGATCACTTGAGACCAGNAGTTCAAGACCAGCCTGCCACATGGAGAAACCC  
 ATCTCTTCTNAAATACAAAATTAACCTGGTGGTGGTGGCCATCTGTATCCCACTACTCAC  
 GAGCTGAGTGAGAAATCGCTGACCCCGNAGGGGAGGTGCATTAACCCGAACGTCCACTTG  
 ACCCACCTGGCAACAAGCGAACTGGTTAAAACAACCAACTCCAAACCCAGAACTAACGAC  
 CCGGTTTACCCCGGTCTGGGCACCCAGGGAGGGGGCTGGCCTGCTTCCAATTAAGAAA  
 GGGAAAGGTGGTGAATCCCTCATGCTTTGGTTGAGGCCCTTAAGGGCCACCCCTCTT  
 GGGGCCGGCCTAGTTCATT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006987

**Insert Size:**

2620 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).

**Components:**

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_006987.2</a> , <a href="#">NP_008918.1</a>
<b>RefSeq Size:</b>	2610 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>Domains:</b>	RPH3A_effector
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 2 encode the same isoform (1).</p>