

## Product datasheet for **RG223419**

### **RPH3AL (NM\_006987) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPH3AL (NM_006987) 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:	>RG223419 representing NM_006987 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGACACCATCTTCGGCAGCGGGAATGATCAGTGGGTTTGCCCAATGACCGGCAGCTTGCCCTTC  
GAGCCAAGCTGCAGACGGGCTGGTCCGTGCACACCTACCAGACGGAGAAGCAGAGGAGGAAGCAGCACCT  
CAGCCCGCGGAGGTGGAGGCCATCCTGCAGGTCATCCAGAGGGCAGAGCGGCTCGACGCTCTGGAGCAG  
CAGAGAATCGGGCGGCTGGTGGAGCGGCTGGAGACCATGAGGCGGAATGTGATGGGGAACGGCCTGTCCC  
AGTGTCTGCTCTGCGGGAGGTGCTGGGCTTCCGGGCAGCTCGTCGGTGTCTGCAAAGACTGCAGGAA  
GAAAGTCTGCACCAAATGTGGGATCGAGGCCTCCCTGGCCAGAAGCGGCCCTGTGGCTGTGTAAGATC  
TGCACTGAGCAAAGAGAGGTCTGGAAGAGTCTGGGGGCTGGTTCTACAAAGGGTCCCAAGTATATCT  
TGCCCTGAAGACCCCTGGCCGAGCTGATGACCCCACTTCCGACCTTTGCCACGGAACCGGCAGAGCG  
AGAGCCGAGAAGCTCTGAGACCAGCCGATCTACACGTGGGCCGAGGAAGAGTGGTTTCCAGTGACAGT  
GATAGTGACTCGGATCTTAGCTCCTCCAGCCTAGAGGACAGACTCCCATCCACTGGGGTCAGGGACCGGA  
AAGGCGACAAACCCTGGAAGGAGTCAGGTGGCAGCGTGGAGGCCCCAGGATGGGTTTACCCACCCGCC  
GGGCCACCTCTGGGTGCCAGAGCAGCTGGCCAGTGGTGAGACGGGGACAGGCTCTGCTGACCCGCCA  
GGGGACCCCGCCCGGGCTGACCGAAGGGCCCGGTAAGACACACCTGGACGAGCCCCGCTGCTG  
ACGCAGCTCCAGCAGGCCCTCCAGCTGCCTGGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG223419 representing NM\_006987  
 Red=Cloning site Green=Tags(s)

MADTIFGSGNDQWVCPNDRQLALRAKLQTGWSVHTYQTEKQRRKQHLSPAEEVAI LQVIQRAERLDVLEQ  
 QRIGRLVERLETMRNVMGNGLSQCLLCGEVLGFLGSSSVFCKDCRKKVCTKCGIEASPGQKRPLWLCKI  
 CSEQREVWKRSGAWFYKGLPKYILPLKTPGRADDPHFRPLPTEPAEREPRSSSETSRIYTWARGRVVSSDS  
 DSDSDLSSSLEDRLPSTGVRDRKGDKPWKEGGSVVEAPRMGFTHTPPGHLSGCQSSLASGETGTGSADPP  
 GGPRPGLTRRAPVKDTPGRAPAADAAPAGPSSCLG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006987

**ORF Size:** 945 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_006987.2](#), [NP\\_008918.1](#)

**RefSeq Size:** 2610 bp

**RefSeq ORF:** 948 bp

**Locus ID:** 9501

**UniProt ID:** [Q9UNE2](#)

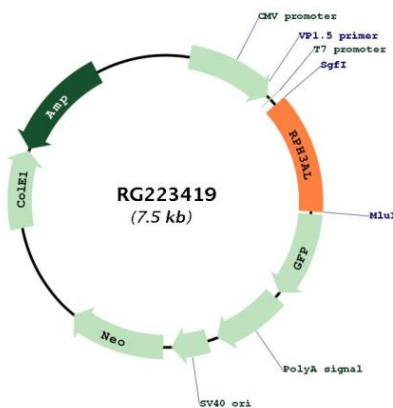
**Cytogenetics:** 17p13.3

**Domains:** RPH3A\_effector

**Protein Families:** Secreted Protein

**Gene Summary:** 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]

### Product images:



Circular map for RG223419