

Product datasheet for **RG232378**

RPH3AL (NM_001190412) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPH3AL (NM_001190412) 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: >RG232378 representing NM_001190412
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGACACCATCTTCGGCAGCGGGAATGATCAGTGGGTTTGCCCAATGACCGGCAGCTTGCCCTTC
 GAGCCAAGCTGCAGACGGGCTGGTCCGTGCACACCTACCAGACGGAGAAGCAGAGGAGGAAGCAGCACCT
 CAGCCCGCGGAGGTGGAGGCCATCCTGCAGGTCATCCAGAGGGCAGAGCGGCTCGACGCTCTGGAGCAG
 CAGAGAATCGGGCGGCTGGTGGAGCGGCTGGAGACCATGAGGCGGAATGTGATGGGGAACGGCCTGTCCC
 AGTGTCTGCTCTGCGGGAGGTGCTGGGCTTCCCTGGGCAGCTCGTCGGTGTCTGCAAAGACTGCAGGAA
 GGTCTGGAAGAGGTCGGGGCCCTGGTTCTACAAAGGGCTCCCAAGTATATCTTGCCCTGAAGACCCCT
 GGCCGAGCTGATGACCCCACTTCCGACCTTTGCCACGGAACCGGCAGAGCGAGAGCCAGAAAGCTCTG
 AGACCAGCCGATCTACACGTGGGCCCGAGGAAGAGTGGTTTCCAGTGACAGTGACAGTGACTCGGATCT
 TAGCTCCTCCAGCCTAGAGGACAGACTCCCATCCACTGGGGTCAGGGACCGGAAAGGCGACAAACCTGG
 AAGGAGTCAGGTGGCAGCGTGGAGGCCCCAGGATGGGGTTCACCCACCGCCGGGCCACCTCTCTGGGT
 GCCAGAGCAGCTGGCCAGTGGTGGAGACGGGACAGGCTCTGCTGACCCGCCAGGGGACCCCGCCCGG
 GCTGACCCGAAGGGCCCGGTAAGACACACCTGGACGAGCCCCGCTGCTGACGCAGCTCCAGCAGGC
 CCCTCCAGCTGCCTGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232378 representing NM_001190412
 Red=Cloning site Green=Tags(s)

MADTIFGSGNDQWVPCNDRQLALRAKLQTGWSVHTYQTEKQRRKQHLSPAEEVAILQVIQRAERLDVLEQ
 QRIGRLVERLETMRNVMGNGLSQCLLCGEVLGFLGSSSVFCKDCRKYVWRKSGAWFYKGLPKYILPLKTP
 GRADDPHFRPLPTEPAEREPRSSSETSRIYTWARGRVVSSDSDSDSLSSSLEDRLPSTGVRDRKGDKPW
 KESGGSVEAPRMGFTHPPGHLGCGSSLASGETGTGSADPPGGPRPGLTRRAPVKDTPGRAPAADAAPAG
 PSSCLG

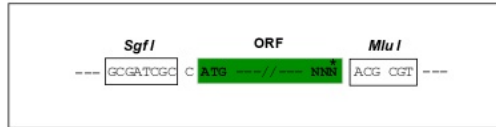
TRTRPLE - GFP Tag - V

Restriction Sites:

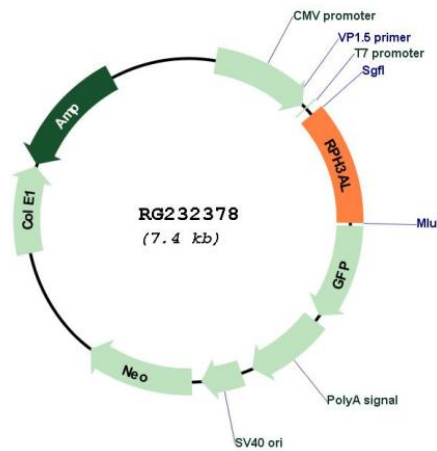
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001190412

ORF Size: 858 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:	<ol style="list-style-type: none">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_001190412.2
RefSeq Size:	2667 bp
RefSeq ORF:	861 bp
Locus ID:	9501
UniProt ID:	Q9UNE2
Cytogenetics:	17p13.3
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]