

Product datasheet for **RG205675**

Rabphilin 3A (RPH3A) (NM_014954) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Rabphilin 3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG205675 representing NM_014954
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACTGACACCGTGTTCAGCAACAGTTCTAACCGTTGGATGTACCCAGTGACCGGCCCTTCAATCAA
 AGCTCCAGGCAGGCTGGTCCGTCCACCCCGTGGTCAGCCTGACAGGCAGAGGAAGCAGGAAGAGCTGAC
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 AACCTTGAATCCCGAATTCAATGAGGAGTTTTTCTATGACATCAACACAGTGACCTGGCAAAGAAGTCA
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 TCTCTGCCAAGGGAGAGCGCTTAAACACTGGTACGAGTGTCTGAAAAATAAGACAAGAAGATAGAGCG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

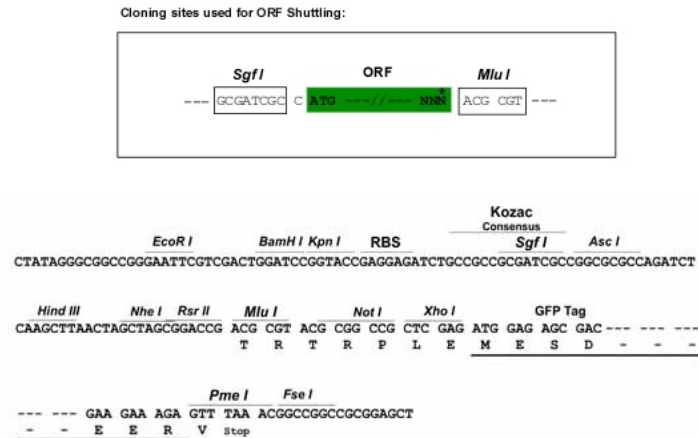
Protein Sequence: >RG205675 representing NM_014954
 Red=Cloning site Green=Tags(s)

MTDTVFSNSSNRWMPDRPLQSKLQAGWSVHPGGQPDQRQKEELTDEEKEIINRVIARAEMEEMEQQE
 RIGRLVDRLNMRKNVAGDGVNRCILCGEQLGMLGSACVVCEDCKKNVCTKCGVETNNRLHSLVWLCIKI
 EQREVWKRSGAWFFKGFQVLPQPMPIKTKPQPVSEPAPEQPAPEPKHPARAPARGDSEDRRGGPGQ
 KTGPDPASAPGRGNYGPPVRRASEARMSSSSRDSESWDHSGGAGDSSRSPAGLRRANSVQASRPAPGSVQ
 SPAPPQPGQPGTPGGRPGPGPAGRFDPQKPEVAPSDPGTTAPPREERTGGVGGYPAVGAREDRMSHPSG
 PYSQASAAAPQPAARQPPPEEEEEANSYDSDEATTLGALEFSLLYDQDNSSLQCTIIKAKGLKPMDS
 NGLADPYVKLHLLPGASKSNKLRKTLRNTRNPIWNETLVYHGITDEDMQRKTLRISVCDEDKFGHNEFI
 GETRFLSKKLKPNQRKNFNICLERVIPMKRAGTTGSARGMALYEEEQVERVGDIEERGKILVSLMYSTQQ
 GGLIVGIIRCVHLAAMDANGYSDPFVKLWLPDMGKKAKHKTQIKKTLNPEFNEEFFYDIKHSDLAKKS
 LDISVWDYDIGKSNDYIGGCQLGISAKGERLKHWECLKNKDKKIERWHQLQENHVSDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014954

ORF Size: 2070 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014954.2](#), [NP_055769.2](#)

RefSeq Size: 2963 bp

RefSeq ORF: 2073 bp

Locus ID: 22895

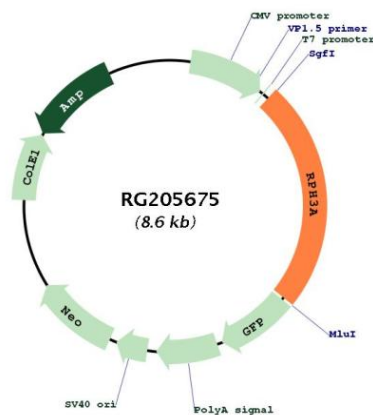
UniProt ID: [Q9Y2J0](#)

Cytogenetics: 12q24.13

Domains: C2, RPH3A_effector

Gene Summary: The protein encoded by this gene is thought to be an effector for RAB3A, which is a small G protein that acts in the late stages of neurotransmitter exocytosis. The encoded protein may be involved in neurotransmitter release and synaptic vesicle traffic. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RG205675