

Product datasheet for **RG226947**

Rabphilin 3A (RPH3A) (NM_001143854) 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: >RG226947 representing NM_001143854
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACTGACACCGTGTTCAGCAACAGTTCTAACCGTTGGATGTACCCAGTGACCGGCCCTTCAATCAA
 ATGATAAAGAACAGCTCCAGGCAGGCTGGTCCGTCCACCCCGTGGTCAGCCTGACAGGCAGAGGAAGCA
 GGAAGAGCTGACTGATGAGGAGAAAGAAATCATCAACAGGGTGATTGCTCGAGCTGAGAAAATGGAAGAG
 ATGGAGCAGGAGCGAATCGGACGCCTGGTGGACCGCCTAGAAAACATGAGGAAGAACGTGGCTGGAGATG
 GGGTGAACCGCTGCATACTGTGTGGAGAACAGCTGGGGATGCTGGGCTCTGCCTGTGTAGTATGTGAGGA
 CTGTAAGAAGAACAGCTCTGCACCAAGTGCAGAGTGGAGACCAACAACCGCCTGCATTCTGTGTGGCTCTGC
 AAAATCTGCATTGAGCAGAGGGAGGTGTGAAGCGTTCTGGAGCGTGGTTCTTCAAAGGCTTCCCAAAC
 AGGTCTCCACAGCCTATGCCTATAAAGAAGACCAAGCCCGAGCAGCCTGTCAGTGAGCCTGTGCCCC
 TGAACAGCCTGCTCCTGAGCCCAAGCACCTGCCCGGGCTCCAGCTCGAGGTGACAGTGAAGATAGGAGG
 GGCCCGGGTCAAGAGACAGGCCCTGACCCAGCCTCTGCTCCCGGGCGAGGAACTATGGGCTCCCGTGC
 GCAGGGCCTCCGAGGCACGAATGAGCTCATCTAGCCGAGATTGAGAGAGCTGGGACACAGTGGGGGTGC
 TGGAGACTCCAGCCGAGCCAGCAGGTTTGGAGCGGCCAACTCAGTCCAGGCCTCCAGACCTGCCCA
 GGCTCGGTGCAGAGCCAGCCACCTCAGCCTGGGAGCCAGGAGCCAGGAGGAAGCAGACCGGGTCT
 CTGGGCCAGCAGGACGCTTCCAGATCAGAAGCCAGAGGTGGCTCCGAGCGACCTGGGACCACTGCCCC
 ACCCCGAGAGGAGAGAAGAGGGGAGTCCGGGGCTACCCAGCAGTTGGAGCCAGAGAGGACCGAATGAGC
 CACCCCTCCGACCTATTCCCAAGCATCTGCAGCTGCCCCCAGCCTGCTGCAGCCGCCAGCCACCAC
 CCCCAGAGGAGGAGGAAGAGGAAGCAACAGCTACGATTGGATGAAGCAACCCCTGGGTGCCCTGGA
 ATTCAGCCTTCTCTACGACCAGGACAACAGCTCCCTGCAGTGCACCATCATTAAAGCCAAGGGCTGAAG
 CCCATGGATTCAAACGGCTTGGCTGATCCCTACGTTAAGCTGCACCTCCTGCCGGGAGCCAGCAAGTCCA
 ACAAGCTTCGTACAAAACCTCTGCGGAATACCCGGAACCCCATCTGGAATGAGACCTCTGTATACCGG
 CATCACCGATGAGGACATGCAAGGAAGACCCTCAGGATCTCCGTCTGTATGAGGACAAATTTGGCCAC
 AATGAATTTATTGGTGAGACCAGATTCTCCCTCAAGAACTGAAGCCCAACCAGAGGAAGAAATTTCAACA
 TCTGCCTGGAGCGAGTGATTCTATGAAACGTGCTGGGACCACCGGGTCAAGCCGAGGCATGGCCCTTTA
 TGAGGAAGAGCAGGTGGAGCGTGTGGTGACATCGAGGAGCGTGGCAAGATCCTGGTCTCCCTCATGTAC
 AGCACACAGCAGGAGGCTCATTGTGGGATCATACGCTGCGTGACCTGGCTGCCATGGACGCTAATG
 GCTACTCAGACCCATTCTCAAGCTCTGGCTGAAACCGGACATGGGAAAGAAAGGCCAAACACAAGACTCA
 AATTAAGAAAGAAACCTTGAATCCCGAATTCATGAGGAGTTTTCTATGACATCAAACACAGTGACCTG
 GCAAAGAGTCACTGGACATTTCACTCTGGGACATGACATCGGCAAGTCCAATGATTACATCGGAGGCT
 GCCAGCTGGGATCTCTGCCAAGGGAGAGCGCTTAAACACTGGTACGAGTGTCTGAAAAATAAGACAA
 GAAGATAGAGCGCTGGCACCAGCTACAGAATGAGAACCACGTGTCAAGTGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226947 representing NM_001143854
 Red=Cloning site Green=Tags(s)

MTDVFSSNSNRWMPDRPLQSNDSKEQLQAGWSVHPGGQPDQRKQEELTDEEKEIINRVIARAEMKEE
 MEQERIGRLVDRLENMRKNVAGDGVNRCILCGEQLGMLGSACVVCEDCKKNVCTKCGVETNNRLHSVWLC
 KICIEQREVWKRSGAWFFKGFQKQVLPQPMPIKKTQPPVSEPAPEQPAPEPKHPARAPARGDSEDRR
 GPGQKTGPDASAPGRGNYGPPVRRASEARMSSSRDSESWDHSGGAGDSSRSPAGLRRANSVQASRPAP
 GSVQSPAPPQPGQPTGPGSRPGPGPAGRFPDQKPEVAPSDPGTTAPPREERTGGVGGYPVAGAREDRMS
 HPSGPYSQASAAAPQPAARQPPPEEEEEANSYDSDEATLGALEFSLLYDQDNSSLQCTIIKAKGLK
 PMDSNGLADPYVKLHLLPGASKSNKLRKTLRNTRNPIWNETLVYHGITDEDMQRKTLRISVCDEDKFGH
 NEFIGETRFSLKKLKPQRKNFNICLERVIPMKRAGTTGSARGMALYEEEQVERVGDIEERKILVSLMY
 STQQGGLIVGIIRCVHLAAMDANGYSDPFVKLWLPDMGKAKHKTQIKKTLNPEFNEEFFYDIKHSDL
 AKKSLDISVWDYDIGKSNDYIGGCQLGISAKGERLKHWECLKNKDKKIERWHQLQENHNHVSDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001143854

ORF Size: 2082 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.

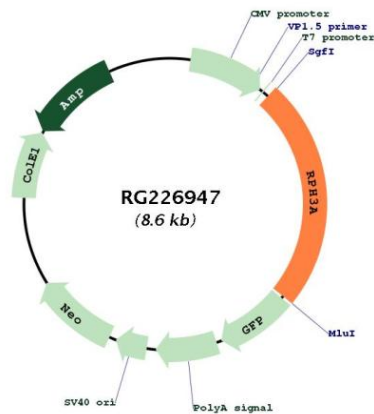
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001143854.2](#)

RefSeq Size: 4605 bp
 RefSeq ORF: 2085 bp
 Locus ID: 22895
 UniProt ID: [Q9Y2J0](#)
 Cytogenetics: 12q24.13

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 RG226947