

Product datasheet for **MC228659**

Rph3a (NM_001302345) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rph3a (NM_001302345) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rph3a
Synonyms:	2900002P20Rik; AU022689; AW108370
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228659 representing NM_001302345
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTGACACTGTGGTGAACCGATGGATGTACCTGGTATGGCCCTCTGCAGTCAAATGACAAGGAAC
 AGCTGCAGGCAGGATGGTCCGTCCATCCTGGAGCACAGACCGACAGGCAGAGGAAGCAGGAAGAAGTAC
 AGACGAGGAGAAGGAGATCATCAACAGAGTGATTGCTCGGGCAGAGAAGATGGAAGCCATGGAACAGGAA
 CGCATTGGGCGCCTGGTGGACCGTCTGGAGACCATGAGGAAGAATGTGGCTGGAGATGGCGTGAACCGCT
 GCATTCTGTGTGGGAACAGCTGGGTATGCTGGGCTCGGCCTGTGTCTGTGTGAAGACTGTAAGAAGAA
 TGTCTGCACCAAGTGTGGGGTTGAGACCTCCAACAACCGTCCGCATCCGGTATGGCTCTGCAAGATCTGC
 CTTGAGCAGAGAGAGGTCTGGAAGCGCTCAGGAGCATGGTTCTCAAAGGTTTCCCAAGCAGGTCTTC
 CACAGCCCATGCCTATAAAGAAGACCAAGCCCCAGCAGCTGCTGGTGAACCGGCCACCCAGGAGCAGCC
 TACACCTGAGTCCAGGCATCCAGCCAGGGCTCCAGCTCGAGGTGACATGGAGGACAGGAGCCCCAGGG
 CAGAAGCCAGGCCCTGACCTCACCTCTGCTCCTGGGAGAGGAAGCCATGGGCCTCCCACGCGTAGGGCCT
 CTGAGGCACGGATGAGTACAGCCGCCGGGATTCTGAGGGCTGGGACCATGCCATGGTGGGGTACTGG
 AGACACCAGCCGTAGCCAGCAGGTTTGGGCGAGCTAACTCAGTCCAGGCAGCCCGCCCTGCCCCAGCC
 CCAGTGCCAAGCCAGCACCTCCTCAGCCGGTGCAGCCAGGGCCCCCTGGGGCAGCAGGGCCACTCCTG
 GGCCAGGACGCTTCCGGAGCAGAGCACAGAGGCTCCTCCAAGTGACCTGGCTATCCAGGGGCTGTGCG
 CCCAGCCCAGAGGAGAGGACAGGACCTGCGGGGGGCTCCAGGCAGCGCCGACACTGCAGCCCCCTAT
 TCCCAGGCAGCCCCTGCTCGCCAGCCACCACCTGCGGAGGAGGAGGAGGAAGAAGCCAATAGTTATGACT
 CTGATGAAGCAACCACACTGGGTGCCCTGGAATTCAGCCTTCTCTATGACCAAGACAACAGCAACCTGCA
 GTGCACCATCATCAGGGCGAAGGGACTGAAGCCCATGGATTCCAATGGCTTGGCAGATCCCTATGTGAAG
 CTTTCATCTGCTGCCTGGAGCCAGCAAGTCCAACAAGCTTCGTACAAGACCCTGCGCAACACTCGGAACC
 CTGTGTGGAATGAGACTGCAGTATCATGGCATTACAGAGGAGGACATGCAGAGGAAGACACTAAGGAT
 CTCCGTGTGTGACGAGGACAAGTTTGGCCACAACGAGTTCATTGGTGAGACCAGGTTCTCGCTCAAGAAG
 CTGAAGGCTAACCAGAGGAAAACTTCAACATCTGCCTGGAGCGGGTATCCCGATGAAGAGAGCAGGGA
 CCACCGGGTCGGCCCGTGGCATGGCTCTCTATGAGGAGGAGCAGGTAGAGCGGATCGGCATATAGAGGA
 ACGGGGAAGATCCTGGTGTCCCTCATGTACAGCACGCAGCAGGGCGGCCTCATTGTGGGAATCATCCGC
 TGTGTGACCTGGCCCATGGATGCCAACGGCTACTCAGACCCCTTTGTCAAGCTCTGGCTGAAACCGG
 ACATGGGAAGAAAGCCAAGCACAAGACTCAGATTAAGAAAGAACCCCTGAATCCCGAGTTTAACGAGGA
 GTTCTTTTATGATATCAAACACAGCGACCTGGCTAAAAAGTCCCTGGATATCTCGGTGTGGGACTACGAC
 ATTGGCAAGTCTAATGATTACATCGGAGGCTGCCAGCTGGGGATCTCGGCCAAAGGCGAGCGCTTGAAC
 ATTGGTATGAGTGTGTAAGAACAAGACAAGAAGATTGAGCGCTGGCACCAACTGCAGAACGAGAACCA
 CGTGTCCAGTGAT**TAG**

AG**CGGACCC**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_001302345
- Insert Size:** 2046 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<u>NM_001302345.1, NP_001289274.1</u>
RefSeq Size:	3918 bp
RefSeq ORF:	2046 bp
Locus ID:	19894
UniProt ID:	<u>P47708</u>
Cytogenetics:	5 F
Gene Summary:	<p>Plays an essential role in docking and fusion steps of regulated exocytosis (By similarity). At the presynaptic level, RPH3A is recruited by RAB3A to the synaptic vesicle membrane in a GTP-dependent manner where it modulates synaptic vesicle trafficking and calcium-triggered neurotransmitter release (By similarity). In the post-synaptic compartment, forms a ternary complex with GRIN2A and DLG4 and regulates NMDA receptor stability. Plays also a role in the exocytosis of arginine vasopressin hormone (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.</p>