

Product datasheet for MC202494

Rph3a (NM_011286) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rph3a (NM_011286) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rph3a
Synonyms: 2900002P20Rik; AU022689; AW108370
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC050883 sequence for NM_011286
 CTCAGTTTCAGATGGGACGTGGAAACATTAAGTGCCATCCCCAGGGTGCATGGGGCTGGCCAGGCT
 CCTGAAACCTGTCAGATGTGGTTGTTTAAACAAACCACCATCCCCTTCAGGCACCTCTGTTTTTTTGT
 GTTTTGTGTTTTTTAGCCTTGTTTTTTCTGCAGTCTTCTGAGCCTGAGTTGCAGACTTCAGCAGC
 AATGTGGATGATCCTGGAAGCCACAGGGAGACGCACAGGCATATCTGCTGTTCTTTCAAGCCAAGTCGCT
 GGGACTTAACACCTCCCCCCCCCAGCAGGGAGTTGGCAAGAATTTGGCTCCCGTATTCTGCTCAAT
 CCTCTACTGTCCCGGTGTGCCAGCCTTCCACCATGACTGACACTGTGGTGAACCGATGGATGTACCCTGG
 TGATGGCCCTCTGCAGTCAAATGACAAGGAACAGCTGCAGGCAGGATGGTCCGTCATCTGGAGCACAG
 ACCGACAGGCAGAGGAAGCAGGAAGAACTGACAGACGAGGAGAAGGAGATCATCAACAGAGTGATTGCTC
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 GAAGAATGTGGCTGGAGATGGCGTGAACCGCTGCATTCTGTGTGGGAACAGCTGGGTATGCTGGGCTCG
 GCCTGTGTCGTGTGAAGACTGTAAGAAGAATGTCTGCACCAAGTGTGGGGTTGAGACCTCCAACAACC
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 ATTCCAATGGCTTGGCAGATCCCTATGTGAAGCTTCATCTGCTGCCTGGAGCCAGCAAGTCCAACAAGCT
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 GAGGAGGACATGCAGAGGAAGACACTAAGGATCTCCGTGTGTGACGAGGACAAGTTGGCCACAACGAGT



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TCATTGGTGAGACCAGGTTCTCGCTCAAGAAGCTGAAGGCTAACCAGAGGAAAACTTCAACATCTGCCT
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GATGTAGCCAAAAATAAAGTAGGAATATCCAAGGAAAAAAAAAAAAAAAAAAAAAAAAA
    
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Restriction Sites:

Ascl-NotI

ACCN:

NM_011286

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).

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: [BC050883](#), [AAH50883](#)

RefSeq Size: 4115 bp

RefSeq ORF: 2046 bp

Locus ID: 19894

UniProt ID: [P47708](#)

Cytogenetics: 5 F

Gene Summary: 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]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein.