

Product datasheet for **SC114690**

Rabphilin 3A (RPH3A) (NM_014954) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rabphilin 3A (RPH3A) (NM_014954) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rabphilin 3A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114690 sequence for NM_014954 edited (data generated by NextGen Sequencing)

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ATGACTGACACCGTGTTCAGCAACAGTTCTAACCGTTGGATGTACCCAGTGACCGGCC
CTTCAATCAAAGCTCCAGGCAGGCTGGTCCGTCCACCCCGGTGGTCAGCCTGACAGGCAG
AGGAAGCAGGAAGAGCTGACTGATGAGGAGAAAGAAATCATCAACAGGGTGATTGCTCGA
GCTGAGAAAAATGGAAGAGATGGAGCAGGAGCGAATCGGACGCCTGGTGGACCGCTAGAA
AACATGAGGAAGAACGTGGCTGGAGATGGGGTGAACCGCTGCATACTGTGTGGAGAACAG
CTGGGGATGCTGGGCTCTGCCTGTGTAGTATGTGAGGACTGTAAGAAGAACGTCTGCACC
AAGTGCAGGAGTGGAGACCAACAACCGCTGCATTCTGTGTGGCTTGCAAAATCTGCATT
GAGCAGAGGGAGGTGTGGAAGCGTTCTGGAGCGTGGTTCTTCAAAGGCTTCCCCAAACAG
GTCCTCCACAGCCTATGCCTATAAAGAAGACCAAGCCCCAGCAGCCTGTCAGTGAGCCT
GCTGCCCTGAACAGCCTGCTCCTGAGCCCAAGCACCTGCCCGGCTCCAGCTCGAGGT
GACAGTGAAGATAGGAGGGGCCGGGTGAGAAGACAGGCCCTGACCCAGCCTCTGCTCCC
GGGCGAGGAACTATGGGCTCCCGTGCAGGGCCTCCGAGGCACGAATGAGCTCATCT
AGCCGAGATTGAGAGAGTGGGACCACAGTGGGGTGTGGAGACTCCAGCCGGAGCCCCA
GCAGGTTTGAGACGGGCCAACTCAGTCCAGGCCTCCAGACCTGCCCCAGGCTCGGTGCAG
AGCCCAGCGCCACCTCAGCCTGGGCAGCCAGGGACCCAGGAGGAAGCAGACCGGCTCT
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ACTGCCCCACCCGAGAGGAGAGAACAGGGGGAGTCGGGGGCTACCCAGCAGTTGGAGCC
AGAGAGGACCGAATGAGCCACCCCTCCGGACCTATTCCCAAGCATCTGCAGTGCCCCC
CAGCCTGCTGCAGCCGCCAGCCACCACCCAGAGGAGGAGGAAGAGGAAGCCAACAGC
TACGATTGCGATGAAGCAACCACCTGGGTGCCCTGGAATTGAGCCTTCTCTACGACCAG
GACAACAGCTCCCTGCACTGCACCATTAAGGCCAAGGGCCTGAAGCCCATGGATTCA
AATGGCTTGGCTGATCCCTACATTAAAGCTGCACCTCCTGCCGGGAGCCAGCAAGTCCAAC
AAGCTTCGTACAAAACTCTGCGGAATACCCGGAACCCCATCTGGAATGAGACCTCGTG
TATCACGGCATCACCGATGAGGACATGCAAAGGAAGACCCTCAGGATCTCCGTCTGTGAT
GAGGACAAATTCGGCCACAATGAATTTATTGGTGAGACCAGATTCTCCCTCAAGAACTG
AAGCCCAACCAGAGGAAGAATTTCAACATCTGCCTGGAGCGAGTGATTCTATGAAACGT
GCTGGGACCACCGGTGAGCCGAGGCATGGCCCTTTATGAGGAAGAGCAGGTGGAGCGT
GTTGGTGACATCGAGGAGCGTGGAAGATCCTGGTCTCCCTCATGTACAGCACACAGCAG
GGAGGCCTCATTGTGGGATCATACGCTGCGTGCACCTGGCTGCCATGGACGCTAATGGC
TACTCAGACCCATTTCGTCAAGCTCTGGCTGAAACCGGACATGGGAAAGAAGGCCAAACAC
AAGACTCAAATTAAGAAAGAAACCTTGAATCCCGAATTCAATGAGGAGTTTTTCTATGAC
ATCAAACACAGTGACCTGGCAAAGAAGTCACTGGACATTTCACTGCTGGGACTATGACATC
GGCAAGTCCAATGATTACATCGGAGGCTGCCAGCTGGGGATCTCTGCCAAGGGAGAGCGC
TAAAAACACTGGTACGAGTGTCTGAAAAATAAAGACAAGAAGATAGAGCGCTGGCACCAG
CTACAGAATGAGAACCACGTGTCAAGTGATTAG

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Clone variation with respect to NM_014954.3
 1263 c=>t;1282 g=>a;1452 t=>c

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014954 unedited <pre> GGGTTCAAATTTGTAATACGAACTCACTATAGGGCGGCCGGAATTCGCACGAGGGTCC ACTGACTCACTGGCTGGTCCGAGTTTTCTCCGCTTCTGGCAGTGGCACCTCCGCTGAGCT TTTAAACCAAGTCATTGGGACTTAGCGTCTTTCTACCCGGCAGGGAAGGGAGGAGTTGGC AAGAATTTGGCTCACCCATTCCCCTGCAAGCCTCCAGCGTCGCGGAGCACTAGACATCT ACTATGACTGACACCGTGTTCAAGCAAGTTCTAACC GTTGGATGTACCCAGTGACCGG CCCCTTCAATCAAATGATAAAGAACAGCTCCAGGCAGGCTGGTCCGTCACCCCGGTGGT CAGCCTGACAGGCAGAGGAAGCAGGAAGAGCTGACTGATGAGGAGAAAGAAATCATCAAC AGGGTGATTGCTCGAGCTGAGAAAATGGAAGAGATGGAGCAGGAGCAATCGGACGCCTG GTGGACCGCCTAGAAAACATGAGGAAGAACGTGGCTGGAGATGGGGTGAACCGCTGCATA CTGTGTGGAGAACAGCTGGGGATGCTGGGCTCTGCCTGTGTAGTATGTGAGGACTGTAAG AAGAAGCTCTGCACCAAGTGGGAGTGGAGACCAACAACCGCCTGCATTCTGTGTGGCTC TGCAAAATCTGCATTGAGCAGAGGGAGGTGTGGAAGCGTTCTGGAGCGTGGTTCTTCAA GGCTTNCCTAACAGGTCTNCCACAGCCTATGCCTATNAAGAAGACCAAGCCCCAGCAG CCTGTGAGTGAGCCTGTGCCCCGTGACAGCCTGCTNCTGAGCCCAGCACNCTGCCCGGNN CTCAGCTCGAGTGACAGTGAAAGATAGAGGGCCCGGGTCAGAAGACAGCCCTGACCCANC TCTGCTCCGNGCAGAAACTTGGNC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014954
Insert Size:	4400 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:	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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is 4 aa shorter compared to isoform 1.