

Product datasheet for SC209011

RAB3A (NM_002866) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones

Symbol: RAB3A

Mammalian Cell Selection: Neomycin

Vector: pMirTarget (PS100062)

ACCN: NM_002866

Insert Size: 716 bp

Insert Sequence: >SC209011 3'UTR clone of NM_002866
The sequence shown below is from the reference sequence of NM_002866. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GTGCCACCGCACCAGGACTGCGCCTGCTGAGAGCCATCCCACTCCCTTTCCCTCTTCCCTGTCTTCCC
CACCTTCCCCCACTACCGGGCCTGACCGGGCCCTACCAGCCACGGGCACAAGACCCCTGCTCCTGA
CTTAGCCCGTCACCCCTATTTATTATTGTAGCTATTTATTTATTTATTGAAGATGTCCCCCAGGGGCCC
AGGCTCCCCTGCCCGCCCAAGCCCTGCCCTCCTGTACATATAGCCCTTTCCCACTCAGCTGTGGTG
TCTCGTGGCCCCGTGAAGTCAACGCTCACCCTCCTGAACCCCCCCCCCGCCTTTTTTTAAATTCAC
CCCCATCCACAGTTGTCAAGTTGTGAAGAGGGGCCAGATGACACCCCTAAAGCAGGCTGATCGGGCAATGG
GAGGTGGCCAGGCTGCCAGCCCTCGGCTCTGCCGCGGTGGGCCGAGGCCGCTGTTGGGGGTTTCCT
GTGTGGACCATGGGGATCAGAGTCTGGCCTGCCAGGCTCCTCTCCCGTTTTCTTTTGGTGGGGGG
TGTGCTGTGGGTATTACCAACCTGGGACCCCCCCCCCGCCACCAAGACCTGTTCTGACCTCATG
AGTGTCAAACGTGCCCCCAGTTCTTAGGAGATGTCATGACAACACTACACGCACCAATAAAGCGAA
TGGACCATCCATGTGTGCCCTGTGA
ACGCGTAAGCGGCCGCGGCATCTAGATTGGAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).



Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_002866.5</u>
Summary:	Small GTP-binding protein that plays a central role in regulated exocytosis and secretion. Controls the recruitment, tethering and docking of secretory vesicles to the plasma membrane (By similarity). Upon stimulation, switches to its active GTP-bound form, cycles to vesicles and recruits effectors such as RIMS1, RIMS2, Rabphilin-3A/RPH3A, RPH3AL or SYTL4 to help the docking of vesicles onto the plasma membrane (By similarity). Upon GTP hydrolysis by GTPase-activating protein, dissociates from the vesicle membrane allowing the exocytosis to proceed (By similarity). Stimulates insulin secretion through interaction with RIMS2 or RPH3AL effectors in pancreatic beta cells (By similarity). Regulates calcium-dependent lysosome exocytosis and plasma membrane repair (PMR) via the interaction with 2 effectors, SYTL4 and myosin-9/MYH9 (PubMed:27325790). Acts as a positive regulator of acrosome content secretion in sperm cells by interacting with RIMS1 (PubMed:22248876, PubMed:30599141). Plays also a role in the regulation of dopamine release by interacting with synaptotagmin I/SYT (By similarity).[UniProtKB/Swiss-Prot Function]
Locus ID:	5864
MW:	26