

Product datasheet for **SC319905**

RAB3A (NM_002866) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB3A (NM_002866) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002866.3

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GAGGACTGCAGGGCCTGAGCCGCTGCTGCCGCCGCCGCCGCGCAGCCCCACATCAACGC
ACCGGGGTCTGTCAACGCCACCCGCAAAAAAGTCACCGCGCTAGGGTCGCCGTTGCAT
CGGTGCAGGGCAAGATGGCATCCGCCACAGACTCGCGCTATGGGCAAGAAGGAGTCCCTCGG
ATCAGAACTTCGACTACATGTTCAAGATTCTCATCATCGGCAACAGCAGCGTGGGCAAGA
CGTCCTTCTCTTCCGCTATGCTGACGACTCGTTCACGCCTGCCTTCGTCAGCACCGTGG
GCATCGACTTCAAGGTCAAGACCATCTATCGCAACGACAAGAGGATCAAGCTGCAGATCT
GGGACACAGCAGGGCAAGAGCGGTACCGGACCATCACCACCGCATACTACCGGGGCGCTA
TGGGCTTCATCCTCATGTATGACATCACCAACGAGGAATCCTTCAATGCAGTGCAGGACT
GGTCCACCCAGATCAAGACCTACTCATGGGACAATGCCAGGTGCTGCTGGTAGGAAACA
AGTGTGACATGGAGGATGAGCGGTGGTGTATCAGAACGTGGCCGCGAGCTAGCTGACC
ACCTTGGGTTTCGAGTTCTTTGAGGCAAGCGCCAAGGACAACATTAACGTC AAGCAGACCT
TTGAGCGCCTGGTGGATGTCATCTGCGAGAAGATGTCGAGTCGTTGGACACGGCGGACC
CTGCGGTACAGGCGCCAAGCAGGGCCACAGCTCAGTGACCAGCAGGTGCCACCGCACC
AGGACTGCGCCTGCTGAGAGCCATCCCACTCCCTTTCCCTCTTCCCTGTCTTCCCCACC
TTCCCCAACTACCGGGCCTGACCCGGCCCTACCAGCCACGGGCACAAGACCCCTGCT
CCTGACTAGCCCGTCAACCTTATTTATTATTGTAGCTATTTATTTATTTATTGAAGATG
TCCCCCAGGGGCCAGGCTCCCCGCCCCCAAGCCCTGCCCTCCTGTACATATAGC
CCTTTCCCACTCAGCTGTGGTGTCTCGTGGCCCGTGAACCTCACCGCTCACCTCCTGA
ACCCCCCCCCCGCTTTTTTTAAAATTCACCCCATCCACAGTTGTAGTTGTGAAGAGG
GGCCAGATGACACCCTAAAGCAGGCTGATCGGGCAATGGGAGGTGGCCAGGCCTGCCAGC
CCCTCGGCTCTGCCGCGGTGGGCGGAGGCCGCTGTTGGGGGTTTCCCTGTGTGGACCATG
GGGATCAGAGTCTGGCCTGCCAGGCTCCTCTCCCCGTTTTCTCTTTTGGTGGGGGGTGT
GCTGTGGGATTCACCACCCTGGGACCCCCCCCCCCCCGCCACCAGACCTGTTCTGAC
CTCATGAGTGTCAAACGTGCCCCCAGTTCCTTAGGAGATGTCATGACAACACTACACGC
ACCCAATAAAGCGAATGGACCATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire



[View online >](#)

ACCN:	NM_002866
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_002866.3 , NP_002857.1
RefSeq Size:	1491 bp
RefSeq ORF:	663 bp
Locus ID:	5864
UniProt ID:	P20336
Cytogenetics:	19p13.11
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
Gene 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]