

Product datasheet for **SC321570**

RAB6A (NM_002869) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB6A (NM_002869) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB6A
Synonyms:	RAB6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002869.4
GGCGGCGCAGCTGTGGAAGCTCAGGCGCTGCGCGTGAGAGGTCCCAGATACGTCTGCGG
TTCCGGCTCCGCCACCTCAGCTTCTCTCCCCAGGTCTGGGAGCCGAGTGC GGAAGGAG
GGAACGGCCCTAGCTTTGGGAAGCCAGAGGACACCCCTGGCTCCTGCCGACACCGCCCTC
CTTCCCTTCCCAGCCGCGGGCCTCGCTCGGTGCTAGGCTACTCTGCCGGAGGCGCGCGC
GGCTGCCAGTCTGTGGAGAGTCTGCTGCCCTCCAGCCGGGCTCCTCCACCGGGCCTTGC
AGGGGCCGAGAGAGCTCGGTGCCCGCCCTTCCGCTCGCTTTTTTCGTCAGCTGGCTGGAG
CAGCATCGGTCCGGGAGGTCTCTAGGCTGAGGCGGCGGCCGCTCCTCTAGTTCCACAATG
TCCACGGGCGGAGACTTCGGGAATCCGCTGAGGAAATCAAGCTGGTGTCTCTGGGGGAG
CAAAGCGTTGAAAGACATCTTTGATCACCAGATTCATGTATGACAGTTTTGACAACACC
TATCAGGCAACAATTGGCATTGACTTTTTATCAAAAATATGTACTTGGAGGATCGAACA
ATCAGGCTTCAGCTGTGGGATACTGCGGGTCAGGAACGTTTTCCGTAGCCTCATTCCCAGT
TACATCCGTGATTCTGCTGCAGCTGTAGTAGTTTACGATATCACAAATGTTAACTCATT
CAGCAAATAACAAGTGGATTGATGATGTGAGAACAGAAAGAGGAAGTGTATTATCATC
ATGCTAGTAGGAAATAAAACAGATCTTGCTGACAAGAGGCAAGTGTCAATTGAGGAGGGA
GAGAGGAAAGCCAAAGAGCTGAATGTTATGTTTATTGAACTAGTGCAAAAGCTGGATAC
AATGTAAGCAGCTCTTTCGACGTGTAGCAGCAGCTTTGCCGGGAATGAAAGCACACAG
GACAGAAGCAGAGAAGATATGATTGACATAAACTGAAAAAGCCTCAGGAGCAACCAGTC
AGTGAAGGAGGCTGTTCTGCTAATCTCCCATGTCATCTTCAACCTTCTCAGAAGCTCA
CTGCTTTGGCCCCCTTACTCTTTTCACTTACTGACTGCAAGTGTGAATATTGGCTTGAACCTTTTC
CCTTCAGTAATAACGTATTGCAATTCATCATTGCTGCCTGTCTCGTGGAGATGATCTATT
AGCTTCACAAGCACAAACAAAGTCAGTGTCTTCAATTTATATTTTACAAAAAGCCAAA
ATATTTACAGCATATTCAGTGATAACTTTAAAAATAGATACATTTTCTTAACATTTTTT
TCTTTTTAATGTTATGATAATGTACTTCAAAATGATGGAATCTCAACAGTATGAGTAT
GGCTTGGTTAACGAGCGCTATGTTACAGCCTACTTTATCTCTCCTTGTCTTTCTCACCT
CTCACTTACCCCCATTCCCTATTACCCTATTCTTACCTAGCCTCCCCGACTTCTCTCAA
ACAAACAAGAGATGGCAAAGCAGCAGTTCTACCAAGCCATTGGAATTATCCTTTAATTT



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TACAGATACCACTTGCTGTAGGCTACGGACCAAGATGTCCAAAATTATTCTTGAGCACTG
 ATATAAATTACGGTCTTCTTTGAGGTCAAATTCAGCCATCATGGTAGGCAGTGCTTGAA
 TGAGAAAAGGCTCCTGGTGCATCTTCAAATGAGTCTAAAGAACAATACTGAGTACTTAG
 AAGTAGAAGAACATAAGATGATTTCTGACTAAAACAAATGGCTCTTTCACATGTGCTTT
 ATTAGACTCTGGGAGAGAAAATTAACCAAGTGTTCAGAACAGGTTTTAGTATTTAATT
 CTTACCGTAAGAAAATGAAGTTCTAATGAACTGTTTCTCCCAAGTTTTAAAATGTCA
 AGAGTTATCTGTTTGTAAAAAATAAGAAACCTCTTAAAGCAATAGATTTGCTTGGG
 TTTTCTTTTTTAAAAACATAAATACTGTGCAGGCAAGGCACTGTAAAAGTTTTAATTCCTT
 CCAGAAGAACCAGTGGAAGAATTTAAATTTGGCGCTACGATCAAAACTACTGAATTAGTA
 GAAATAATGATGTCTAAAGCTTACCAACAAAAGAACCCTCAGCAGAATAACAAAACTTT
 GCTCAGGACATTTGAGGTCAAATGAAGACGGAACCGGAAACCGTTTTCTTGTAAGCCC
 CTAGAGGCAGATCAGGTAAGCATACATAGTAGAGGAAAGGAGAGAATGGAAATAAAC
 TCAATATTATGCAGATTTATGCCTATTTTTTAGCATTTTTAAGGTTGGGTCTTTCAGG
 CTGTTTTGGTTGTATTAGATCTGTATAGTTAATTAAGTGGTATTTAGTTTTATATT
 TAAGCTACAATTAATCTTTTTCTTTGGTGATTTTATTTCTTTGCCTTTTTTTTTTTTA
 ACAACTTTCAATCTTCAGATGTTTCGTTGAATCTATTTAGAGCTTCACCATGGCAATATG
 TATTTCCCTTAAAAACTGCAAAACAAATACTAGGAGTGTGCCCTTTAATCTTTACTA
 GTTATTGTGAGATTGCTGTGTAAGCTAATAAACACATTTGTAAATACATTGTTTGCAGGA
 CGAAAACCTTCTGAGTTACAGCTCAGGAAAAGCCTGCTGAATTTATGTTGTAAGCATTACT
 TAACACAGTATAAAGATGAAAAGACAACAAAAATCTTCATACTTCCTCATCCCCTCAT
 TGGAAACAAAACCTTAACTGGGAGAACCTTAGTCCCCTCTTTCCTCTCCTCCTCCA
 CTTCCCCTTATTGTACCTTGAATATTCAGAGAGCACTGGATTATGGATCTGAATAG
 AGAAATGCTTACAGATAATCATTAGCCACATACCAGTAACTTAACTTAAAGATGGGAT
 GGAGTTGTAAAGTGCTTTTATAATACAATAAATTGTTAAAGGCAAGGGTTGACTCTTTG
 TTTTATTTTGACATGGCATGCTGAAATAAATATTGATTCAATATGGCAAAAAAAAAA
 AAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_002869
- 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:**
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_002869.4](#), [NP_002860.2](#)

RefSeq Size: 3419 bp

RefSeq ORF: 627 bp

Locus ID: 5870

UniProt ID: [P20340](#)

Cytogenetics: 11q13.4

Domains: ras, RAN, RAS, RHO, RAB

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the RAB family, which belongs to the small GTPase superfamily. GTPases of the RAB family bind to various effectors to regulate the targeting and fusion of transport carriers to acceptor compartments. This protein is located at the Golgi apparatus, which regulates trafficking in both a retrograde (from early endosomes and Golgi to the endoplasmic reticulum) and an anterograde (from the Golgi to the plasma membrane) directions. Myosin II is an effector of this protein in these processes. This protein is also involved in assembly of human cytomegalovirus (HCMV) by interacting with the cellular protein Bicaudal D1, which interacts with the HCMV virion tegument protein, pp150. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]
Transcript Variant: This variant (1) encodes isoform a, also known as RAB6A' or RAB6C.