

Product datasheet for **SC320702**

RAB8A (NM_005370) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB8A (NM_005370) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB8A
Synonyms:	MEL; RAB8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005370.4
 GCTCGGTGCTGATGGACGGTGTGGTGGCCAGTGGAGAGGCGCTGGCCGCACTTCCCCTC
 GGGGAGAGAGTGTAAATATGGCGAAGACCTACGATTACCTGTTCAAGCTGCTGATCGG
 GGACTCGGGGGTGGGGAAGACCTGTGCTCTGTTCCGCTTCTCCGAGGACGCTTCAACTC
 CACTTTTATCTCCACCATAGGAATTGACTTTAAAATTAGGACCATAGAGCTCGATGGCAA
 GAGAATTAAGTGCAGATATGGGACACAGCCGGTCAAGAACGGTTTCGGACGATCACAAC
 GGCTACTACAGGGGTGCAATGGGCATCATGCTGGTCTACGACATCACCACGAGAAAGTC
 CTTGACAAACATCCGGAAGTGGATTGCAACATTGAGGAGCAGCCTCTGCAGACGTCGA
 AAAGATGATACTCGGGAACAAGTGTGATGTAATGACAAGAGACAAGTTTCCAAGGAACG
 GGGAGAAAAGCTGGCCCTCGACTATGGAATCAAGTTCATGGAGACCAGCGCAAGGCCAA
 CATCAATGTGGAAAATGCATTTTCTACTCTCGCCAGAGATATCAAAGCAAAAATGGACAA
 AAAATTGGAAGGCAACAGCCCCAGGGGAGCAACCAGGGAGTCAAATCACACCGGACCA
 GCAGAAGAGGAGCAGCTTTTCCGATGTGTTCTTCTGTGAGGAACACCGCCTTACTCTGA
 GCCTCGCTCAGCCAGCTGACTGTGCTGTTCTGAGTGAAGCCCTCACTCAGCCGGGGCC
 CTCCCACCTCCAACGCCCCGCCCAGCCGCGGCCACCGGGCCCACGGCCACCAGAATGCA
 ATTGAGAAATCGTTTATTTTAGTAACTGTCTGATCTTTTCAACTTTGGAGATGGAATAA
 GTTAAAAATTTGCTATTTTCTGTAACATCTGCTGAACGGGCCACCCACAGTTGTAT
 ATTCAGAGAGAGAGAGGGAGTCAAGGTGTGACCGTCGACCACAGCCAGTGTGAGGCTCT
 GCCTCTGGGCCTTTGCTTTGTGGCCTCACTGCAACACAAAAGTCCACCAGGAGGCTGGTT
 CACGTCCCCTACCACGGAAGCGAGGTCCAGAGGCCAGCGGTGGTTCCAGGAGCAACAG
 CTCCAAAACCTGAGCAAGGCAACCGATCGCCAGGACCAGGAAGCATCACCCAGGAGATT
 TGGCGCCCACTTCCACCTCTTCTCAGTTTTGGACAAGTGACAAACATTTTGGCCCT
 CACTCTTCTTTTTAACTGTTAAACCAAAGGAAAGCACAATGAAGGAAATCCTGTGTAA
 AGCATTGAGAAGGAAAGAAGCCTGGAGCAGCCTCTCTGTCCACAGCCAGGGTTAGGTC
 TGCAGGCCCGTCTGCGGTCCCCATCGAGCATCAAGGGGACGCTGTGTGCTGCAAGTGA
 CCCCAGAAAACAACCACAGCCGTACATGGTCTCTGAAAGTTGGGGCACCTCTCTCAG
 CACCAAAATGGCCCCACTCCTTCGTGCTCTCCGCTATCTCAAATCGGACGTTCTTTT
 TAGCTGAGATTTTATTTTCCACATCTGTAGTGCCATGAAGCGATTCTGTCTTTGACTT
 CCAATGGCAAACCTGGGTGATCGGGAACAAGCACGTTGTACCCTGGCTGGACATGGCCA
 AGACACAAGGCATTCCACGGCGCAAGCTGACCCGACAGCAGTCTGGCTTGATTTTCAAG
 CGTCATCATTGGGTTCTGTTTTGACAGCTCTGCTGTCCATAGGGACTGCGACTGGGACC
 AGGTCAACCACGCCAGGGGGGTGTCAACAGCCTTTTCTTTTTTCTTTTCTTTTTTTTT
 TTCTCTTAAGCTGCTGTAATCCAAACCATGGCATCATCGTTTCTTTTCAATAAAA
 CCAACATATCAGCAATAGTCTGCTCTCCCGGGAATCTCTAACATGCTCTGTTTACATCG
 ATAAATGCACTTAAGGAAAACAAACAAATTAAGCTCATCTTAAAGTCAAAAAAAAAA
 AAAAAAA

Restriction Sites: Please inquire

ACCN: NM_005370

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_005370.4 , NP_005361.2
RefSeq Size:	2194 bp
RefSeq ORF:	624 bp
Locus ID:	4218
UniProt ID:	P61006
Cytogenetics:	19p13.11
Domains:	ras, RAN, RAS, RHO, RAB, ARF
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>The protein encoded by this gene is a member of the RAS superfamily which are small GTP/GDP-binding proteins with an average size of 200 amino acids. The RAS-related proteins of the RAB/YPT family may play a role in the transport of proteins from the endoplasmic reticulum to the Golgi and the plasma membrane. This protein shares 97%, 96%, and 51% similarity with the dog RAB8, mouse MEL, and mouse YPT1 proteins, respectively and contains the 4 GTP/GDP-binding sites that are present in all the RAS proteins. The putative effector-binding site of this protein is similar to that of the RAB/YPT proteins. However, this protein contains a C-terminal CAAX motif that is characteristic of many RAS superfamily members but which is not found in YPT1 and the majority of RAB proteins. Although this gene was isolated as a transforming gene from a melanoma cell line, no linkage between MEL and malignant melanoma has been demonstrable. This oncogene is located 800 kb distal to MY09B on chromosome 19p13.1. [provided by RefSeq, Jul 2008]</p>