

Product datasheet for **SC116777**

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:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116777 sequence for NM_005370 edited (data generated by NextGen Sequencing)

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ATGGCGAAGACCTACGATTACCTGTTCAAGCTGCTGCTGATCGGGGACTCGGGGGTGGGG
AAGACCTGTGCTCGTTCCGCTTCTCCGAGGACGCCTTCAACTCCACTTTTATCTCCACC
ATAGGAATTGACTTTAAAATTAGGACCATAGAGCTCGATGGCAAGAGAATTAAGTGCAG
ATATGGGACACAGCCGGTCAGGAACGGTTTCGGACGATCACAACGGCCTACTACAGGGGT
GCAATGGGCATCATGCTGGTCTACGACATACCAACGAGAAGTCCTTCGACAACATCCGG
AACTGGATTCGCAACATTGAGGAGCAGCCTCTGCAGACGTCGAAAAGATGATACTCGGG
AACAAAGTGTGATGTAATGACAAGAGACAAGTTTCCAAGGAACGGGGAGAAAAGCTGGCC
CTCGACTATGGAATCAAGTTCATGGAGACCAGCGGAAGGCCAACATCAATGTGGAAAAT
GCATTTTTCACTCTCGCCAGAGATATCAAAGCAAAAATGGACAAAAAATTGGAAGGCAAC
AGCCCCCAGGGGAGCAACCAGGGAGTCAAATCACACCGGACCAGCAGAAGAGGAGCAGC
TTTTTCCGATGTGTTCTTCTGTGA
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Clone variation with respect to NM_005370.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005370 unedited
 CCTTGGCGACTGCACCACAATTTTATATAGGGTGGNCGNNAATTCGCACCAGGCTCT
 CCTTTTTGCCGGCAATGGGAGGTGCGCTTGGGATGATTAAGGATCCGCGCTCCGATCGC
 CCCCTCCAGGTCTCCCGTGACTGGTGGGACGCAGGGGCGGGCGTGGCCCGGTGACG
 CGCAGCGGGCTGGAGCCAATAAGGGGCGGTTTTTTTTGCTGATGGACGGTGTGGTGGC
 CAGTGGAGAGGCGCTGGCTGCACCTACCCTCGGGGAGAGAGTGCATATGGTGAAGACCT
 ACGATTACCTGTTCAAGCTGCTGATGATCGGGGACTCGGTGGGGAAGACCTGTGCC
 TGTTTCGATTCTCCGAGGACGTCTCAACTCCACTTTTATCTCCACTATAGGAATTGATT
 TAAAAATTAGGAGCATAGAGCTCGATGGCAAAAAGAATAAACTGTAGATATGGGACACAG
 CTGGTCTGGAACGGTTTTCGGACGATCACACTGGACTACTACAGGGGTGCAATGGGCATCA
 TGTTGGTCTACGAAATTCAACGTAGAGTTCTTCCCAACATCCGGAACCTGGATTTCAA
 CATTGAGGAGTCCGCCTCTGCAGACGTCTTAAAGATGAATCCTCGGCACCATCTGTGACG
 TCACTGACCAACAACATGTTTCTTAGGACACGGTGAAAAACGCTGGGTTTTTAATTATG
 GTATCAGTTTATGGTGACCACCTCCAAGTCCCACATTACTGTGGCACAGTATTTTTCA
 TTTCTTTTCTCAGATATCATAGCTAATAGGCCAAAAAATTGGGAAGTACCATCCTCCTAG
 GGGTGCCACCTTGAGATTCAAACCTCCATGAACCTCTACAAAGGAGCTTTTTTTCACA
 GTGTTCTTTTCGTAGCACCACCCTATTTTGCCTCCCCACCCTAATGATTGCCTCGTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005370 unedited
 TGAGGCAGGGGTACACAGGGCATGCCACCCGGTATCTGTTTCAGGAAAACAGCTATGACC
 GCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACTTAAA
 ATGAGCTTTAATTTGTTTCTTAAAGTGCATTTATCGATGTAACAGAGCATGTTA
 GATATTTTTGGGAGAGCAGACTATTGCTGATATGTTGGTTTTAATTCAAAAGAAACGAT
 GATGCCTATGGTTTGATTGACAGCCGCTTAAGGAGGAAAAAAAAAAAAAAAAAGAAAAA
 AAGAAAGGGTGGTGACACCCCTGGCGTGGTTGACCTGGTCCCAAGTCCAGTCCCTAT
 GGGACAGCAGATCTGTCAAAACAGAACCAATGATGACGGCTGAAAATCAAGCCAGACTG
 CTGTGCGGTGAGCTTGGCCCGTGGAAATGCCTTGTGTCTTGGCCATGTCCAGCCAAGGT
 ACAACGTGCTTGTCCCGATCACCCAGGTTGCCATTGGAAGTCAAAGACAGAATCGCTT
 CATGGCACTTCAGATGTGAAAAATAAAAAATCTCATCTAAAAAGAACGTCGATTGGAG
 ATAGCGGGAGGACACGAAGGAGTGGGGGCCATTTTGGTGTGAGAGGAGGGTGCCCAAC
 TTCAAGAAGACCATGTGACGGCTGTGGTTGTTTTCGGGGTCATTTGAAACACACACAGCG
 TCCCCTTGATGCTCGATGGGGACCGCAAACGGGCCTGCANACCTAACCCCTGTCTGTGGA
 CAAGAGAGGCTGCTCAAGGCTTCTTCTTCTAATGCTTTACACAGGATTCCTCTTTGT
 GGCTTTCTTTGGTTTACAATAAAAAAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_005370

Insert Size:

2300 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:	<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>