

Product datasheet for **SC117459**

Rab9 (RAB9A) (NM_004251) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab9 (RAB9A) (NM_004251) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rab9
Synonyms:	RAB9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117459 sequence for NM_004251 edited (data generated by NextGen Sequencing) ATGGCAGGAAAAATCATCACTTTTTAAAGTAATTCTCCTTGAGATGGTGGAGTTGGGAAG AGTTCACTTATGAACAGATATGTAATAAAGTTTGATACCCAGCTCTCCATACAATA GGTGTGGAATTTTTAAATAAAGATTTGGAAGTGGATGGACATTTTGTTACCATGCAGATT TGGGACACGGCAGGTGAGGAGCGATTCCGAAGCCTGAGGACACCATTTTACAGAGTTCT GACTGCTGCCTGCTTACTTTTAGTGTGCGATGATTCACAAAGCTTCCAGAACTTAAGTAAC TGAAGAAGAATTATATATTATGCAGATGTGAAAGAGCCTGAGAGCTTTCCTTTTGTG ATTCTGGGTAACAAGATTGACATAAGCGAACGGCAGGTGTCTACAGAAGAAGCCCAAGCT TGGTGCAGGGACAACGGCGACTATCCTTATTTTAAAACAAGTGCAAAAGATGCCACAAT GTGGCAGCAGCCTTTGAGGAAGCGGTTTGAAGAGTTCTTGCTACCGAGGATAGGTCAGAT CATTTGATTGAGACAGACACAGTCAATCTTACCGAAAGCCCAAGCCTAGCTCATCTTGC TGTTGA Clone variation with respect to NM_004251.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004251 unedited
 TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCTGGACGGGAGCA
 GCTGGAGCGGGAGCCTGGCTGCGCTACCGCGGCTGCCTCCTGCTGTGCAGGTCCCCGACC
 CTCTCTGTCTCATTGCGCCAGACGGGCGGCCAGAGCTCCCGGTGCTCTTTTCTG
 GTGGCCGCGAGGGTCTTGAAGCTTTTGAAGATTAACAATGGCAGGAAAATCATCACTTTT
 TAAAGTAATTCCTTGGAGATGGTGGAGTTGGGAAGAGTTCACTTATGAACAGATATGT
 AACTAATAAGTTTGATACCCAGCTCTCCATACAATAGGTGTGGAATTTTTAAATAAAGA
 TTTGGAAGTGGATGGACATTTTGTACCATGCAGATTTGGGACACGGCAGGTGAGGAGCG
 ATTCCGAAGCCTGAGGACACCATTACCAGAGTTCTGACTGCTGCCTGCTTACTTTTAG
 TGTGATGATTACAAAGCTTCCAGAACTTAAGTAACTGGGAAGAAAGAATTCATATATT
 ATGAGATGTGAAAGAGCCTGAGAGCTTCTTTTGTGATTCTGGGTAACAAGATTGACA
 TAAGCGAACGGGAGGTGTCTACAGAAGAAGCCCAAGCTTGGTGGCAGGGACACCGCGCA
 CTATCCTATTTTTGAAACAAGTCAAAAAGATGCCACAAATGTGGCAGCAGCCTTTGAGGG
 AAGCCGGTTCAAAGAGTTTCTGCTACCGGAGGATTGGGTNCAATCATTTGGATTCAA
 GACAGACCCAGGTCAATCTTCAACCGAAAGCCCCAGCCCTAGCTATACTTGTGGGTGAT
 TGGGNAAATGGGGGAGGGATTCTAACCCACTTACCCTTTACCCAAATCACCTGGGGG
 TGGGAAANAAGAATAAGGTTTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004251 unedited
 GCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTCTTAATCGAATTGTAATTT
 TGTATCTCCACACAGTACATTGTAATTATTACATCAGTTATCAAATGCACATTTGTCTG
 TTCTCCAAGTTCAGTAGTTAGCCTTTTTCTTAAACTGAACTCTATCTATGGAAAGGCTT
 TCCATTATAGACAACCTGAATTTAGCTGGATGTATTACAGACTGTATGAAGCAACTCTT
 GTACCACTGGGGGCCACCTCCGCTGAGACTGTGGAACATGATTTATGGGGTGGGGG
 TGCATGAATGGCACACAAATGATGAGTAATTACTAGTGAGAGTAATTCTAGTATGTAGAA
 TGAAAACAGGAATGGTAAATCATTTTGAAGAGAATGAAGAAGTAAATTAACAATGCATT
 GCAATACATTAGATTTTAACTTTAATATCTAACATTATTGCTTTAGGAAAGTATTTCC
 CTGAACCAAGAATACAATGCTAATTGCATAAAAACATACACATATAAAAAGTAGTTCTCC
 ATTTTCCAGGAAAAATCCAAGTATAACTTCTAGAATAGTCAAGTTTCTATTTTTTATT
 ATAATTAAGTCTTGGTCATTTTATTAGCTCTGCAACTTACATATTTAAATTAAG
 AAACGTTATTAGACAACCTGTTACAATTTATAAATGTAAGGGTGCCATTATTGAGTAAATA
 TATTCCTCCAGAGTGGATGTTGTCCCTTCTCCACNCCACTATGAAGCAGCACCTTAGT
 TTATTTTATTAGTAGATGAACACTGCTGCAAACGCTATCTTCTCACCCATGTGATTT
 GNGTATATGGGAATGGTAAAATGCTCACATCTACATCACACAGAGACTAGCTGGGCTTG
 NGAATGACTGGCTGCTGACATGACCGACTACTCGAGC

Restriction Sites:

NotI-NotI

ACCN:

NM_004251

Insert Size:

1580 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_004251.3 , NP_004242.1
RefSeq Size:	1097 bp
RefSeq ORF:	606 bp
Locus ID:	9367
UniProt ID:	P51151
Cytogenetics:	Xp22.2
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
Gene Summary:	<p>Involved in the transport of proteins between the endosomes and the trans Golgi network. Involved in the recruitment of SGSM2 to melanosomes and is required for the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer transcript. Variants 1 and 2 both encode the same protein.</p>