

Product datasheet for **MC203577**

Rab32 (NM_026405) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab32 (NM_026405) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rab32
Synonyms:	2810011A17Rik; AU022057
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC055945
 GTCAGGTCGGCCTTTGGGGAAGAAGTTCCTAGGCCGTGGCACCCATGGCGGGCGAGGGACTAGGGCAAC
 AGGGCGCGTCGGCCACCGCGCGCCGGAGACCCGAGAGCACCTCTTTAAGGTGCTGGTCATCGGGCAGCT
 CGGCGTGGGTAAGACGAGCATCATCAAGCGCTACGTGCACCAGCTCTTCTCCCAGCACTACCGCGCCACC
 ATTGGCGTGGACTTCGCCTCAAAGTCTCAACTGGGACAGCAGGACGCTCGTGGCCTGCAGCTGTGGG
 ATATCGCGGGACAGGAACGGTTTGCAACATGACTCGAGTATACTATAAGGAAGCTTTGGAGCATTGT
 AGTCTTTGATATATCAAGAAGTCTACATTTGATGCAGTCTAAAATGGAAAAACGATCTGGATAGTAAA
 GTTCATCTTCCCAACGGCAGCCCCATTCCTGCTGTCTCCTAGCTAACAAATGTGACCAGAAGAAGGACA
 ACAGCCAGAGTCCTTCCAGATGGACCAGTTTTGTAAAGACCATGGCTTCAGTGGATGGTTTGAAACCTC
 TGCCAAGGATAATATAAACATCGACGAGGCCACCCGCTTCCTAGTGGAACACATGCTTGCAAAACAGCAA
 AGCTTTCTAGTGAAGAAATCGACCTGGACAGAATTAACCTGGTAGAGGAGCCCCCACAACAAAGCCCA
 GGTCCCAGTGCTGATGTGTCTGTGCCCCATGTGTGTCTCCTGGTCTGCCTGTATGGAGGCTG
 CCCCTTTCCAACCTCGGTGCCACTTTGCCCTGTGACTCTCCCTCGGGGGCGCTGCTTACC GTTCAGC
 TGTACAGGCACCGCCCATCTGAAGATCCATGGAGAACTCTCCCATGAGAGGCCCCGTGACTTTACCGA
 GGACCCCTCAGGCTCTTGCATACTGCCAAATGCAAACTAATGTTTACAGCCTTTGAAATATTTTTGTAC
 ATGAATTTCAAAGTTAGCTTTTAGTGTGAGTCTAGGTGGGGTCATAGAAAAGTCCCTCGGCCTGGT
 GATGGTGATTGTGACTTTTCAGTGACTTTGTTCCCTGTATACATCCCCACCTAAGCACATTTTTTTTTCT
 TTTCTAAGATGTTAGCTACAGAGACCTGAAGGTACGTGCAGTTATATCCTAGTCAAACCTTTGTACGTC
 ATGTAATTTTTCATCTTAAATAACATGATCCATAACATAGCTGTTGTACAATGAAGTCACTCTGA
 ATCACCTTAAGAACACCTTCTTTAATTAGTCAAAAAGTCCCGAGCTAGGAATGTGGCTCATTATGTAGA
 GTGCTTACCTAGAATGCGATAGACTCTCTGGGTCTGCAGTTCTGAGAGACCAAAAAGAGTTAGCACCATA
 CCTGTTTTATGTGTCTCCTTTCTGGATCTCTCAGTGTGGTTGCCACTACCACTTGGAACAATATA
 AATGAAGATTTTGTCTCTGCCCCTCTATTCTGTACTTATAGCCTAGGGCCATATTGAACATACAGTGGT
 ACTAAGAGGAACCTGTCTTTCCGGTTCTGTCATAATAATAATGGTCAAGGAGGGAATTCTTTTTCAAAC
 ATATGCAATTATAGCCAAGTTTCTGTAGTGTAACCTGGAAAGAAAGTAGACCATGTCTAGTTTTGCCTG
 TGGTTTCAATACTGTTATATAATGCCTCGGGCACTTAGGAAGACCCACTATACTGTATTGCCTTAAAC
 TCAGTGAAAGAAAGGAATAAATAATTTAACCTAAGCCTGTGTGTTGAATGAATGTGGTTAGTTCTAGGAA
 GGAAGTGTCTGTTTAGAAAATGTGTTGGCTGAGGTGGTGGTTCACATCTGTCATCCCAGCCTGCGGG
 AGACAGAGACAAAGGTGGGAGTGCATATCTTGGCTACATAGCAAGTTCAAGAATAGCCTGTGCTACACA
 AGAGGCTTTCTCCCAAAATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAAAAA AAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_026405

Insert Size: 672 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:	<u>BC055945</u> , <u>AAH55945</u>
RefSeq Size:	2038 bp
RefSeq ORF:	672 bp
Locus ID:	67844
UniProt ID:	<u>Q9CZE3</u>
Cytogenetics:	10 A1
Gene Summary:	Acts as an A-kinase anchoring protein by binding to the type II regulatory subunit of protein kinase A and anchoring it to the mitochondrion. Also involved in synchronization of mitochondrial fission. Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and Mycobacterium (By similarity). Plays an important role in the control of melanin production and melanosome biogenesis (By similarity). In concert with RAB38, regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (PubMed:26620560).[UniProtKB/Swiss-Prot Function]