

## Product datasheet for **MC200747**

### **Rab27a (BC008173) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rab27a (BC008173) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rab27a
Synonyms:	4933437C11Rik, 2210402C08Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC008173  
 GCCAAGCACCCAAAAAAGGCCAGTCGCACGGGGTCCCGAGCTCCATTTGGAAGGGAGTACCTAAGGGAT  
 AGAGCACACGCGAGGACGCGGCACGTTGGGAATCTAGCACTGCAGGGACGCAACACCGCAGGGACAGCACC  
 GGACAGAGCACCAAAACCGGATTGAGTTTATCTCATCAACCCTGGCTGAGCTCCCTACAGCTATTTAGAGC  
 CTGAAAAGAAAAAAGTCCAAGTGCTAAGCTAAAAGTGAAGCTTCAAACAGCTTCCAGCTAAGGACGC  
 TACGCTGCACACTCCCGTGGCCATTGAGGTGAGGCACAGAGTCTCCATCATGTCGGATGGAGATTACGA  
 TTACCTCATCAAGTTCTTGGCCTTGGGAGACTCTGGGGTAGGGAAGACCAGTGTACTCTACCAGTACACT  
 GATGGCAAGTTCAACTCCAAATTCATCACCACAGTGGGCATTGATTTAGGGAAAAGAGAGTGGTGTACA  
 GAGCCAATGGGCCAGATGGAGCTGTGGGCCGAGGCCAGAGAATCCACCTGCAGTTATGGGACACGGCGGG  
 GCAGGAGAGGTTTCGGAGCTTAACCACTGCATTCTTACGGGACGCTATGGGTTTCTGCTTCTGTTTCGAC  
 CTGACAAATGAGCAAAGTTTCTCAATGTCCGAAACTGGATAAGCCAGCTACAGATGCACGCGTACTGTG  
 AAAACCCAGATATAGTGTGTGTGAAATAAGAGTGACCTGGAAGACCAGAGGGCAGTAAAAGAGGAGGA  
 GGCCCGGAACTTGCCGAGAAGTACGGAATCCCCTATTTTAAACAGTGTGCCAACGGGACAAACATA  
 AGCCACGCGATTGAGATGCTCCTGGACCTGATCATGAAGCGGATGGAGCGGTGTGTGGACAAGTCTGGA  
 TTCCGGAGGGAGTGGTACGGTCCAACGGCCATACCTCTGCGGATCAGCTAAGTGAGGAGAAGGAGAAGGG  
 GTTGTGTGGCTGTGAGACGCCAAGCGAGCCCGTGGCAGCAGCGCATGACCCCTGGTTGCCGCCAGCTC  
 CGCTGTAGAGACCAAGCCGGCAGCTCGATGAGATGAGCAAACAGCCCCTCCTATGCCAGGTGCCTCTCCT  
 CGCCTCCAGGAGGGTACCTCGGGCATCCATCTGTAACGCGCTGCAGCTTTGTATGATTTAGTCCATGAA  
 TCGGAAGAAATACTTCACAGAGCCAAAAGTGTCTATAAAAGCCACGGTGGCGGGTCAATTTAGGGATCC  
 AAGATTTAGCCATGAAAGATTTTCTGTTATGTAGAACGCTGATGGTCTGTGCGCTGCCTTAACACA  
 GTGCGCTGCCTCAACACAGGACAGCCCTAGAGTCTCATTGAAGACATTAAGATCTTTGAGCAAGGAAAAG  
 CTAGCAGGTCTTGAGAATCCAGATTTCAAATCCATACTGTAGACTATCACTCTCAAACACGTGAATGT  
 CAATAAGTGTGTACACACAGATCAATGTCTTTTCCAGCATTGCTTTTAAACATAGCCTTTCTTTGACATGA  
 GCATAAACAGATGGCGGCCATACCTATAGACTCTGAATAGATCGGATTGACTCACTGTGAGTTTGGGGGT  
 GGGGGGAAGGTTTATGGAGCAGGGTGGTGAAGTAGGATCAGTCAGATTGTCTGCTGTTAGCCGAGG  
 GGTGATGAAGACTCTTGTGTCTATCCATGGTCTGTTGGGTTTCACTGCACCTCTGAACATCGCTCATGCTT  
 CTACAGTATGTATGTTTGCATGTATGTATGTATGGTCTCTTCATATGTACGTATGTTTGGTCTGGCACCT  
 CAGGATCTGCTTCACTTGTCTGGAGACTGCCAATCTGACTTTTCCCATCAAGTTTGGTGGTGGTGGT  
 TTTCCAGTTTGTCTTCCCCCCCCCTCCCCCATTAAATGTAAGTGAAGGAATCTCTTTTAAATTAAC  
 GCGTGTATTATTGCTAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** BC008173

**Insert Size:** 666 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:**

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: [BC008173](#), [AAH08173](#)

RefSeq Size: 1995 bp

RefSeq ORF: 666 bp

Locus ID: 11891

Cytogenetics: 9 40.08 cM

**Gene Summary:** The protein encoded by this gene is a member of the Rab family of proteins, which is the largest family within the Ras superfamily of GTPases. This gene product is thought to regulate vesicular transport, together with its specific effectors. Mutations in this gene cause several defects, including actin-based melanosome transport defects and immunodeficiency. Mutations in the human ortholog of this gene are associated with Griscelli syndrome type 2. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]