

## Product datasheet for **RC203094**

### **RAB32 (NM\_006834) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: RAB32 (NM\_006834) Human Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: RAB32  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
ORF Nucleotide Sequence: >RC203094 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGCGGAGGAGCCGGGGACCCCGGCCTGGGGCGGCCCGCCCCAGCGCCCGAGACCCGCGAGC  
ACCTCTCAAGGTGCTGGTGATCGGCGAGCTTGGCGTGGCAAGACCAGCATCATCAAGCGCTACGTCCA  
CCAGCTCTTCTCCAGCACTACCGGGCCACCATCGGGGTGGACTTCGCCCTCAAGTCTCAACTGGGAC  
AGCAGGACTCTGGTGCCTGCAGCTGTGGACATCGCGGGCAGGAGCGATTTGGCAACATGACCCGAG  
TATACTACAAGGAAGCTGTTGGTCTTTTGTAGTCTTTGATATATCAAGAAGTTCCACATTTGAGGCAGT  
CTTAAATGGAAGTGTCTGGATAGTAAAGTTCATCTTCCAAATGGCAGCCCTATCCCTGCTGTCTCTC  
TTGGCTAACAAATGTGACCAGAACAAGGACAGTAGCCAGAGTCCCTCCAGGTGGACCAATTCTGCAAAG  
AACATGGCTTTGCCGGATGGTTTGAACCTCTGCAAAGGATAACATAAACATAGAGGAAGCTGCCCGGTT  
CCTAGTGGAGAAGATTCTGTAAACCACCAAAGCTTTCTAATGAAGAAAACGATGTGGACAAAATTAAG  
CTAGATCAAGAGACCTTGAGAGCAGAGAACAATCCCAGTGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203094 protein sequence  
Red=Cloning site Green=Tags(s)

MAGGGAGDPGLGAAAAPAPETREHLFKVLVIGELGVGKTSIIKRYVHQLFSQHYRATIGVDFALKVLNWD  
SRTLVRQLWDIAGQERFGNMTRVYKYKAVGAFVVFDIRSSTFEAVLKWKSDLDSKVHLPNGSPIPAVL  
LANKCDQNKDSSQSPSQVDQFCKEAGFAGWFETSAKDNINIEEAARFLVEKILVNHQSFNPNEENDVDKIK  
LDQETLRAENKSQCC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV



[View online »](#)

Chromatograms: [https://cdn.origene.com/chromatograms/mk6146\\_f05.zip](https://cdn.origene.com/chromatograms/mk6146_f05.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_006834

ORF Size: 675 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM\\_006834.5](#)

RefSeq Size: 1234 bp

RefSeq ORF: 678 bp

Locus ID: 10981

UniProt ID: [Q13637](#)

Cytogenetics: 6q24.3

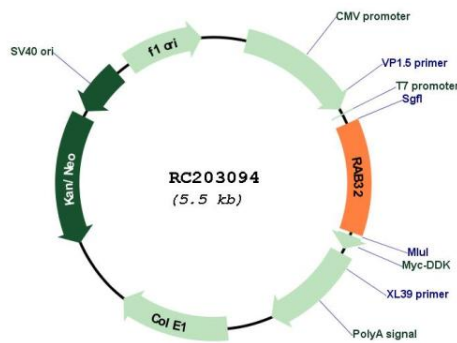
Domains: ras, RAN, RAS, RHO, RAB

Protein Families: Druggable Genome

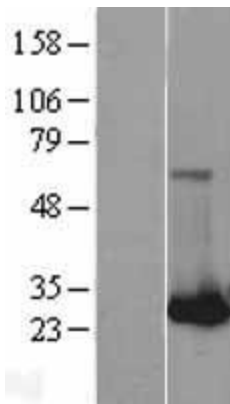
MW: 25 kDa

**Gene Summary:** The protein encoded by this gene anchors the type II regulatory subunit of protein kinase A to the mitochondrion and aids in mitochondrial fission. The encoded protein also appears to be involved in autophagy and melanosome secretion. Variations in this gene may be linked to leprosy. [provided by RefSeq, Dec 2015]

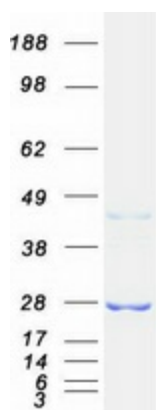
**Product images:**



Circular map for RC203094



Western blot validation of overexpression lysate (Cat# [LY402044]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203094 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAB32 protein (Cat# [TP303094]). The protein was produced from HEK293T cells transfected with RAB32 cDNA clone (Cat# RC203094) using MegaTran 2.0 (Cat# [TT210002]).