

# **Product datasheet for RC206242**

### RAB33B (NM 031296) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** RAB33B (NM\_031296) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: RAB33B
Synonyms: SMC2

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC206242 representing NM\_031296

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCTGAGGAGATGGAGTCGTCGCTCGAGGCAAGCTTTTCGTCCAGCGGGCCAGTGTCAGGGGCCTCAG
GGTTTTTGCCTCCTGCCCGCTCCCGCATCTTCAAGATAATCGTGATCGGCGACTCCAATGTGGGCAAGAC
ATGCCTGACCTACCGCTTCTGCGCTGGCCGCTTCCCCGACCGCACCGAGGCCACGATAGGGGTGGATTTC
CGAGAACGAGCGGTGGAGATTGATGGGGAGCGCATCAAGATCCAGCTATGGGACACAGCAGGACAAGAAC
GATTCAGAAAGAGCATGGTTCAGCACTACTACAGAAATGTACATGCTGTTTGTCTTCGTGTATGATATGAC
CAACATGGCTAGTTTTCATAGCCTACCATCTTGGATAGAAGAATGCAAACAACATTTGCTAGCCAATGAT
ATACCACGGATTCTTGTTGGAAATAAATGTGACTTGAGAAGTGCCATACAGGTACCCACAGACTTGGCAC
AAAAATTTGCTGACACACACAGTATGCCTTTGTTTGAAACGTCTGCTAAAAACCCCAATGATAATGACCA
TGTGGAAGCTATATTTATGACCTTGGCTCATAAGCTTAAGAGCCACAAACCATTAATGCTTAGTCAGCCC
CCTGATAATGGAATTATCCTGAAGCCTGAACCAAAGCCTGCAATGACGTGCTGGTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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#### RAB33B (NM\_031296) Human Tagged ORF Clone - RC206242

**Protein Sequence:** >RC206242 representing NM\_031296

Red=Cloning site Green=Tags(s)

MAEEMESSLEASFSSSGAVSGASGFLPPARSRIFKIIVIGDSNVGKTCLTYRFCAGRFPDRTEATIGVDF RERAVEIDGERIKIQLWDTAGQERFRKSMVQHYYRNVHAVVFVYDMTNMASFHSLPSWIEECKQHLLAND IPRILVGNKCDLRSAIQVPTDLAQKFADTHSMPLFETSAKNPNDNDHVEAIFMTLAHKLKSHKPLMLSQP PDNGIILKPEPKPAMTCWC

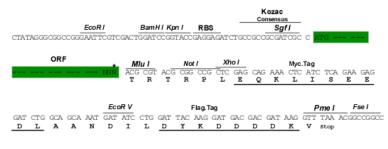
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/ja1515">https://cdn.origene.com/chromatograms/ja1515</a> e10.zip

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_031296

ORF Size: 687 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 <a href="mailto:customercom">customercom</a> 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

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**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

#### RAB33B (NM\_031296) Human Tagged ORF Clone - RC206242

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

**RefSeq:** <u>NM 031296.3</u>

 RefSeq Size:
 3876 bp

 RefSeq ORF:
 690 bp

 Locus ID:
 83452

 UniProt ID:
 Q9H082

 Cytogenetics:
 4q31.1

**Domains:** ras, RAN, RAS, RHO, RAB

**Protein Families:** Druggable Genome

**MW:** 25.5 kDa

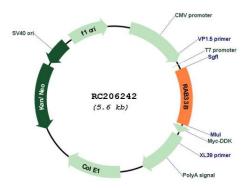
**Gene Summary:** This gene encodes a small GTP-binding protein of the Rab GTPase family, whose members

function in vesicle transport during protein secretion and endocytosis. Rab GTPases are active, membrane-associated proteins that recruit effector proteins in the GTP-bound state and inactive cytosolic proteins when in a GDP-bound state. The protein encoded by this gene is ubiquitously expressed and has been implicated in Golgi to endoplasmic reticulum cycling of Golgi enzymes. In addition, this protein regulates Golgi homeostasis and coordinates intra-Golgi retrograde trafficking. Allelic variants in this gene have been associated with Dyggve-Melchior-Clausen syndrome and Smith-McCort dysplasia 2, which are autosomal recessive spondyloepimetaphyseal dysplasias characterized by skeletal abnormalities. [provided by

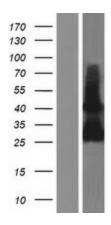
RefSeq, Sep 2016]



## **Product images:**



Circular map for RC206242



Western blot validation of overexpression lysate (Cat# [LY410569]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206242 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).