

## Product datasheet for **RC206519**

### **RAB27B (NM\_004163) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAB27B (NM_004163) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAB27B
Synonyms:	C25KG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206519 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCGATGGAGACTATGATTATCTGATCAAACCTCTGGCCCTCGGGGATTCAGGGGTGGGAAGACAA  
CATTTCTTTATAGATACACAGATAATAAATTCATCCCAAATTCACACTACAGTAGGAATAGACTTTTCG  
GGAAAAACGTGTGGTTTATAATGCACAAGGACCGAATGGATCTTCAGGAAAGCATTTAAAGTGCATCTT  
CAGCTTTGGGACACTGCGGGACAAGAGCGGTTCCGGAGTCTCACCCTGCATTTTCAGAGACGCCATGG  
GCTTCTTATTAATGTTTGACCTCACCAGTCAACAGAGCTTCTTAAATGTCAGAACTGGATGAGCCAAC  
GCAAGCAAATGCTTATTGTGAAAATCCAGATATAGTATAATTGGCAACAAGGCAGACCTACCAGATCAG  
AGGGAAGTCAATGAACGCAAGCTCGGGAAGTGGCTGACAAATATGGCATACCATATTTTAAAACAAGTG  
CAGCAACTGGACAGAATGTGGAGAAAGCTGTAGAAACCTTTTGGACTTAATCATGAAGCGAATGGAACA  
GTGTGTGGAGAAGACACAAATCCCTGATACTGTCAATGGTGGAAATCTGGAAACTTGGATGGGAAAAAG  
CCACCAGAGAAGAAATGTATCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC206519 protein sequence  
Red=Cloning site Green=Tags(s)

MTDGDYDYLKLLALGDSGVGKTTFLYRYTDNKFNPKFITTVGIDFREKRVVYNAQGPNGSSGKAFKAVHL  
 QLWDTAGQERFRSLTTAFFRDAMGFLMFDLTSQQSFLNVRNWMSQLQANAYCENPDIVLIGNKADLPDQ  
 REVNERQARELADKYGIPYFETSAAATGQNVKAVETLLDLIMKRMEQCVEKTQIPDVTVNGNSGNDLGEK  
 PPEKKKIC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6519\\_b11.zip](https://cdn.origene.com/chromatograms/mk6519_b11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004163

**ORF Size:** 654 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_004163.4](#)

**RefSeq Size:** 7003 bp

**RefSeq ORF:** 657 bp

**Locus ID:** 5874

**UniProt ID:** [O00194](#)

**Cytogenetics:** 18q21.2

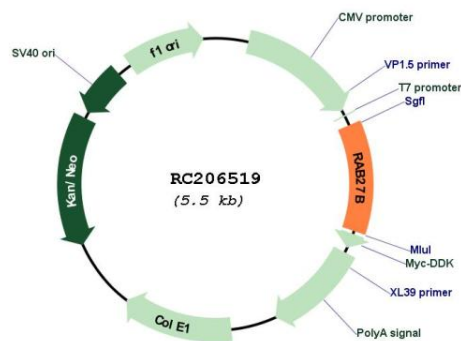
**Domains:** ras, RAN, RAS, RHO, RAB

**Protein Families:** Druggable Genome

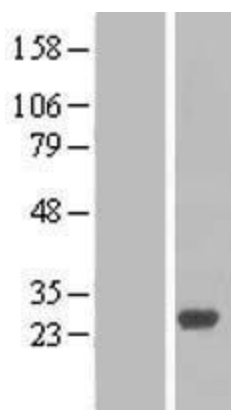
**MW:** 24.6 kDa

**Gene Summary:** Members of the Rab protein family, including RAB27B, are prenylated, membrane-bound proteins involved in vesicular fusion and trafficking (Chen et al., 1997 [PubMed 9066979]). [supplied by OMIM, Nov 2010]

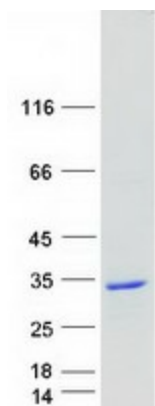
## Product images:



Circular map for RC206519



Western blot validation of overexpression lysate (Cat# [LY418170]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206519 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAB27B protein (Cat# [TP306519]). The protein was produced from HEK293T cells transfected with RAB27B cDNA clone (Cat# RC206519) using MegaTran 2.0 (Cat# [TT210002]).