

Product datasheet for RC231680

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Rab4 (RAB4A) (NM_001271998) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Rab4 (RAB4A) (NM_001271998) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: RAB4A

Synonyms: HRES-1; HRES-1/RAB4; HRES1; RAB4

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

Cell Selection: Neomycin

ORF Nucleotide >RC231680 representing NM_001271998
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGATATCACCAGATGCCCGAATGCTAGCGAGCCAGAACATTGTGATCATCCTTTGTGGAAACAAGAAGG ACCTGGATGCAGATCGTGAAGTTACCTTCTTAGAAGCCTCCAGATTTGCTCAAGAAAATGAGCTGATGTT TTTGGAAACAAGTGCGCTCACAGGGGAGAATGTAGAAGAGGCTTTTGTACAGTGTGCAAGAAAAATACTT AACAAAATCGAATCAGGTGAGCTGGACCCAGAAAGAATGGGCTCAGGTATTCAGTACGGAGATGCTGCCT

TGAGACAGCTGAGGTCACCGCGCGCGCACAGGCCCCGAACGCTCAGGAGTGTGGTTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231680 representing NM_001271998

Red=Cloning site Green=Tags(s)

MISPDARMLASQNIVIILCGNKKDLDADREVTFLEASRFAQENELMFLETSALTGENVEEAFVQCARKIL

NKIESGELDPERMGSGIQYGDAALRQLRSPRRAQAPNAQECGC

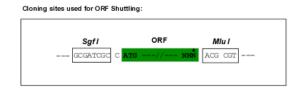
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

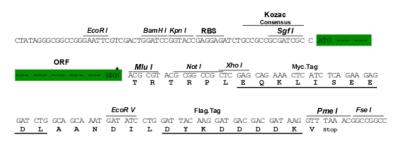
Restriction Sites: Sgfl-Mlul





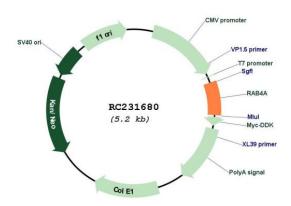
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001271998

ORF Size: 339 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



Rab4 (RAB4A) (NM_001271998) Human Tagged ORF Clone - RC231680

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: <u>NM 001271998.1</u>, <u>NP 001258927.1</u>

 RefSeq Size:
 2822 bp

 RefSeq ORF:
 342 bp

 Locus ID:
 5867

 UniProt ID:
 P20338

 Cytogenetics:
 1q42.13

Protein Families: Druggable Genome

Protein Pathways: Endocytosis

MW: 13 kDa

Gene Summary: This gene is a member of the largest group in the Ras superfamily of small GTPases, which

regulate membrane trafficking. The encoded protein is associated with early endosomes and

is involved in their sorting and recycling. The protein also plays a role in regulating the recycling of receptors from endosomes to the plasma membrane. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Dec 2012]