

Product datasheet for **RC232085**

RAB18 (NM_001256411) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAB18 (NM_001256411) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RAB18
Synonyms: RAB18LI1; WARBM3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232085 representing NM_001256411
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGAGGACGTGCTAACCACCCTGAAGATCCTCATCATCGGCAGAGTGGGGTGGGCAAGTCCAGCC
TGCTCTTGAGGTTACAGATGATACGTTTGATCCAGAACTGCAGCAACAATAGGTGTTGACTTTAAGT
GAAAACAATTTCACTGGATGAAATAAGGCTAACTTGAATATGGGATACTGCTGGTCAAGAGAGGTTT
AGAACATTAACCTCCAGCTATTATAGAGGTGCACAGGGTGTATATTAGTTTATGATGTCACAAGAAGAG
ATACATTTGTTAACTGGATAATTGGTTAAATGAATTGGAACACTGTACAAGAAATGACATAGTAAA
CATGCTAGTTGAAAATAAAATCGATAAGAGGCAAGTGCAAAAACCTGTGATGGTGTACAATGTGCCTTTG
AAGAACTGTTGAAAAGATCATTACAGACCCTGGACTGTGGGAAAGTGAGAACCAGAATAAAGGAGTCAA
ACTGTCACACAGGGAAGAAGGCCAAGGAGGAGGAGCCTGTGGTGGTTATTGCTCTGTGTTATAAACTCTG
GGAAATTCATCTCTTGCATATTTGATCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC232085 representing NM_001256411
Red=Cloning site Green=Tags(s)

MDEVLTTLKILIIIGESGVGKSSLLLRFTDDTDFPELAATIGVDFKVKTIISVDGNKAKLAIWDTAGQERF
RTLTPSYRGAQGVILVYDVTRRDTFVKLDNWLNELEYCTRNDIVNMLVGNKIDKRQVQKPMVMVYNVPL
KNLLKRSFRPLDCGKVRTRIKESNCHTGKKAKEEPPVVVIALCYKLWEIPSLAYLIR

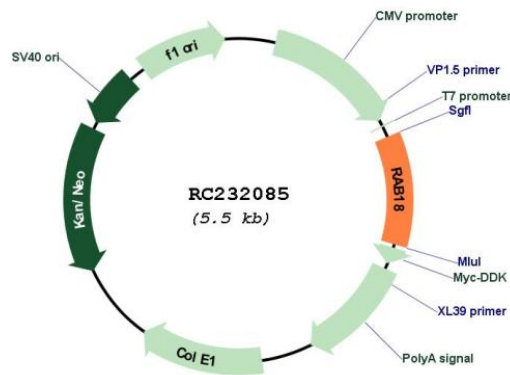
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001256411

ORF Size: 591 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_001256411.2](#)

RefSeq Size: 4936 bp

RefSeq ORF: 594 bp

Locus ID: 22931

UniProt ID: [Q9NP72](#)

Cytogenetics: 10p12.1

Protein Families: Druggable Genome

MW: 22.9 kDa

Gene Summary: The protein encoded by this gene is a member of a family of Ras-related small GTPases that regulate membrane trafficking in organelles and transport vesicles. Knockdown studies in zebrafish suggest that this protein may have a role in eye and brain development. Mutations in this gene are associated with Warburg micro syndrome type 3. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]