

Product datasheet for MR218969

Rab12 (NM_024448) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Rab12 (NM_024448) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Rab12 |
| Synonyms: | 2900054P15Rik; AW555448; C77700 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR218969 representing NM_024448 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGATCCCAGCGCCGCGCTGCACCGGCGGCCCGGGCGGCAGCCTGGGCGGGTCTCCCCGGCGCTGT
CGGGCGGCCAGGCCCGCCGGAGGAAGCAGCCCCCAGGCCGCGGACTTCAAGCTGCAGGTCATCATCAT
CGGCTCCCGCGCGTGGGCAAGACCAGCCTGATGGAGCGCTTACCGACGACACGTTCTGCGAGGCCTGC
AAGTCCACCGTGGGTGTGACTTTAAAAATCAAGACTGTAGAACTAAGAGGAAGAAAATTAGATTACAGA
TCTGGGACACAGCAGGGCAGGAGCGATTTAACAGCATTACCTCAGCCTATTACAGAAGTGCCAAGGGGAT
CATACTCGTATATGACATCACCAAGAAGGAGACGTTTCGATGACTTGCCAAAGTGGATGAAGATGATTGAC
AAGTATGCTTTCAGAAGACGCCGAGCTCCTCCTGTTGGAATAAGCTGGACTGTGAGACAGACAGAGAAA
TCTCAAGGCAGCAAGGAGAAAAGTTTGCACAGCAGATAACCGGGATGCGCTTCTGCGAAGCCAGTGCCAA
GGACAATTTCAATGTGGACGAGATCTTTCTGAACTTGTGATGATATTCTGAAAAAGATGCCTCTTGAT
GTTTTGAGAAACGAGTTATCCAATAGCATCCTTTCTCTACAACCGAGCCTGAGATCCCACCAGAGCTGC
CTCCTCCAGACCACACGTCGGATGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218969 representing NM_024448
Red=Cloning site Green=Tags(s)

MDPSAALHRRPAGGSLGAVSPALSGGQARRRKQPPRPADFKLQVIIIGSRGVGKTSLMERFTDDTFCEAC
 KSTVGVDFKIKTVELRGKKIRLQIWDTAGQERFNSITSAYYRSAGKIILVYDITKKETFDDLPKWMK MID
 KYASEDAELLLVGNKLD CETDREISRQQGEKFAQQITGMRFCEASAKDNFNVDEIFLKLVDLILKKMPLD
 VLRNELSNSILSLQPEPEIPPELPPRPHVRCC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9089_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024448

ORF Size: 729 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_024448.2](#), [NP_077768.2](#)

RefSeq Size: 2010 bp

RefSeq ORF: 732 bp

Locus ID: 19328

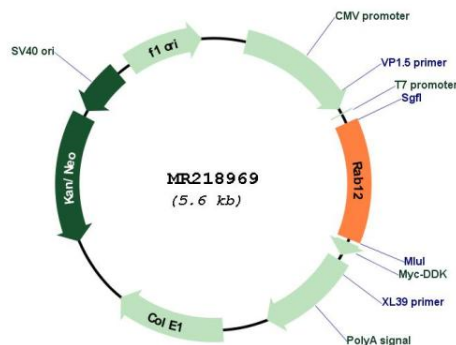
UniProt ID: [P35283](#)

Cytogenetics: 17 E1.1

MW: 27.3 kDa

Gene Summary: The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (By similarity). That Rab may play a role in protein transport from recycling endosomes to lysosomes regulating, for instance, the degradation of the transferrin receptor. Involved in autophagy.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218969