

Product datasheet for **MR215933**

Rab4a (NM_009003) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab4a (NM_009003) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rab4a
Synonyms: A1848268; Rab4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR215933 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGAGACTTACGATTTCTTGTTAAATTCTTGGTCATCGGAAATGCGGGAAGTGGCAAATCTTGCT
TGCTTCATCAGTTCATTGAAAAGAAATTCAAAGATGACTCAAATCATACCATAGGAGTGGAAATTTGGCTC
AAAGATAATAAATGTCGGTGGTAAATATGTAAAGTTACAGATATGGGACACGGCCGGCCAGGAGCGGTTCC
AGGTCTGTGACGAGAAGCTACTACAGAGGTGCAGCTGGGGCACTCCTTGCTATGACATCACCAGCCGAG
AAACCTACAATGCGCTTACTAATTGGTTAACAGATGCCAGAATGCTGGCGAGCCAGAACATCGTCTTAT
CCTCTGCGGGAACAAGAAGGACTTGGATGCCGACCGGGAAGTACCTTCCCGAAGCCTCCAGGTTTCGCA
CAAGAGAATGAGCTGATGTTCTGGAAACCACTGCACTGACTGGCGAGAACGTCGAAGAGGCTTTCATGC
AGTGTGCAAGGAAAATACTTAACAAAATTGAATCAGGTGAACTGGACCCGAGAGGATGGGCTCTGGCAT
CCAGTATGGAGACGCTGCCCTGAGACAGCTGCGGTACCTCGGCGTACACAGGCTCCAAGTGCACAGGAG
TGTGGCTGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR215933 protein sequence
 Red=Cloning site Green=Tags(s)

MSETYDFLFKFLVIGNAGTGKSCLLHQFIEKKFKDDSNHTIGVEFGSKIINVGGKYVKLQIWDTAGQERF
 RSVTRSYRGAAGALLVYDITSRETYNALTNWLDARMLASQNIVLILCGNKKDLADREVTFFLEASRFA
 QENELMFLETSALTGENVEEAFMQCARKILNKIESGELDPERMGSGIQYGDAAALRQLRSPRRTQAPSAQE
 CGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009003

ORF Size: 642 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_009003.3](#), [NP_033029.2](#)

RefSeq Size: 1427 bp

RefSeq ORF: 657 bp

Locus ID: 19341

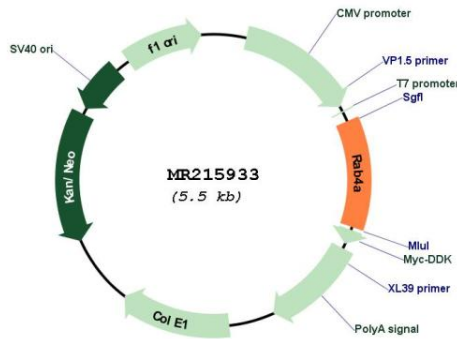
UniProt ID: [P56371](#)

Cytogenetics: 8 72.19 cM

MW: 23.9 kDa

Gene Summary: Protein transport. Plays a role in vesicular traffic. Mediates VEGFR2 endosomal trafficking to enhance VEGFR2 signaling.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215933