

Product datasheet for **RR203900**

Rab1a (NM_031090) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab1a (NM_031090) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rab1a
Synonyms: Ac2-048; Rab1; Rab1r
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203900 representing NM_031090
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAGCATGAATCCCGAATATGATTATTTATTCAAGTTACTCCTGATTGGCGACTCTGGGGTTGGAA
AGTCTTGCCTTCTCCTTAGGTTTGGGATGACACGTATACGAAAGCTACATCAGCACGATTGGTGTGGA
TTTCAAGATACGGACTATAGAGCTAGACGGGAAAACAATCAAGCTTCAGATATGGGACACAGCAGCCAG
GAAAGATTTGAAACAATCACCTCCAGTTATTACAGAGGAGCCCATGGCATCATAGTTGTGTATGATGTGA
CAGACCAGGAGTCCTTCAATAACGTGAAACAGTGGCTGCAGGAGATCGATCGCTACGCCAGCGAAAATGT
CAACAAGTTGTTGGTAGGGAACAAATGTGACCTGACCACAAAGAAAGTAGTAGACTACACAACAGCCAAG
GAATTTGCAGATTCCTTGGAAATTCATTTTTGGAAACAGTGCCTAAGAACGCAACGAATGTAGAACAGT
CTTTCATGACCATGGCAGCGGAGATTAAGGCGGATGGGTCCTGGAGCAACAGCTGGAGGTGCGGAGAA
GTCCAATGTTAAAATCCAGAGCACTCCAGTCAAGCAGTCAGGTGGAGGCTGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203900 representing NM_031090
Red=Cloning site Green=Tags(s)

MSSMNPEDYLFKLLLIIGDSGVGKSCLLLRFAADDTYTESYISTIGVDFKIRTIELDGKTIKLIQIWDTAGQ
ERFRTITSSYYRGAHGIIVVYDVTQESFNQVQWLQEIIDRYASENVNKLVLGKCDLTTKKVVDYTTAK
EFADSLGIPFLETSKATNVEQSFMTMAAEIKKRMGPGATAGGAEKSNVKIQSTPVKQSGGGCC

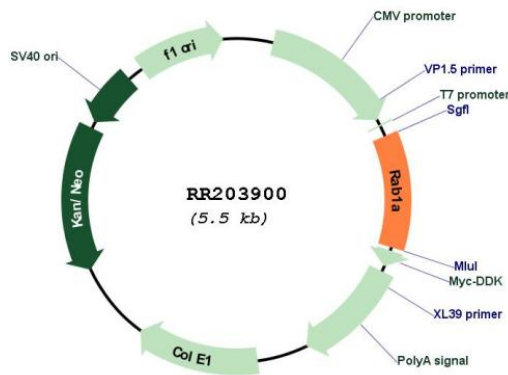
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_031090

ORF Size: 615 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_031090.2](#), [NP_112352.2](#)

RefSeq Size: 1425 bp

RefSeq ORF: 618 bp

Locus ID: 81754

UniProt ID: [Q6NYB7](#)

Cytogenetics: 14q22

MW: 22.7 kDa

Gene Summary: may have GTPase activity; may regulate intracellular protein transport from the endoplasmic reticulum to the Golgi apparatus [RGD, Feb 2006]