

Product datasheet for MR202049

Rab1b (NM_029576) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab1b (NM_029576) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rab1b
Synonyms:	1110011F09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202049 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAACCCGAATATGACTACCTGTTTAAGCTGCTTTTGATTGGTGACTCCGGCGTGGGCAAGTCGTGCC
 TGCTCCTGCGGTTTGCTGATGACACTTACACAGAGAGCTACATCAGCACCATCGGTGTGGATTTCAAGAT
 TCGAACCATTGAGCTGGACGGCAAAACCATCAAAGTGCAGATTTGGGACACAGCTGGTCAGGAGCGGTTT
 AGGACCATCACTTCCAGTACTATCGCGGGGCTCATGGCATCATTGTGGTGTATGACGTCACTGACCAGG
 AGTCCTACGCCAACGTGAAACAGTGGCTGCAGGAGATAGATCGCTACGCCAGTGAGAATGTCAATAAACT
 CCTGGTAGGCAACAAGAGTGACCTCACCACCAAGAAGGTCGTGGACAACACCACGGCCAAGGAATTTGCA
 GACTCTCTGGGTGTCCCCTTCCTCGAGACAAGTGCCAAGAATGCCACCAATGTTGAGCAGGCATTATGA
 CAATGGCTGCAGAGATCAAAAAGCGGATGGGGCCAGGAGCAGCGTCTGGGGGTGAACGGCCCAACCTGAA
 GATCGACAGCACCCCTGTGAAGCCTGCTAGCGGTGGCTGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR202049 protein sequence Red=Cloning site Green=Tags(s)
-------------------	--

MNPEYDYLFKLLIGDSGVGKSCLLRFADDTYTESYISTIGVDFKIRTIELDGKTIKLQIWDTAGQERF
 RTITSSYYRGAHGIIVVDVTDQESYANVKQWLQEIDRYASENVNKL VGKSDLTTKKVDNTTAKEFA
 DSLGVPFLETSKATNVEQAFMTMAAEIKRMPGAASGGERPNLKIDSTPVKPAASGGCC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029576

ORF Size: 603 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_029576.3](#)

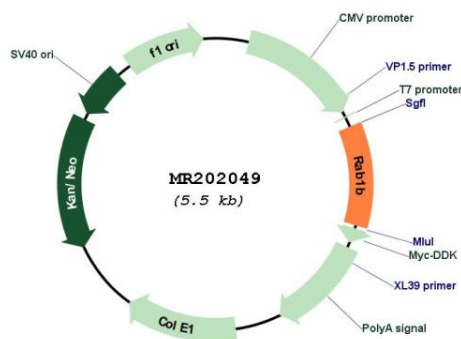
RefSeq Size: 1835 bp

RefSeq ORF: 606 bp

Locus ID: 76308
UniProt ID: [Q9D1G1](#)
Cytogenetics: 19 A
MW: 22.2 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). Plays a role in the initial events of the autophagic vacuole development which take place at specialized regions of the endoplasmic reticulum (By similarity). Regulates vesicular transport between the endoplasmic reticulum and successive Golgi compartments. Promotes the recruitment of lipid phosphatase MTMR6 to the endoplasmic reticulum-Golgi intermediate compartment (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202049