

Product datasheet for **MR202045**

Rab9 (NM_019773) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab9 (NM_019773) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rab9
Synonyms:	2410064E05Rik; AI195561; Rab9a; Sid6061p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202045 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCAGGAAATCGTCTCTTTTAAATAATTCTTCTGGAGATGGTGGAGTTGGCAAGAGTTCTCTTA
TGAACAGATATGTAACCAATAAATTTGATTCCAGCTCTCCACACAATAGGTGTGAATTTTAAATAA
AGATCTGGAGGTGGACGGACATTTTGTACCATGCAGATTTGGGACACAGCTGGCCAAGAAGCGTTCCGA
AGCCTGAGGACGCCATTTTACCGGGTCTGACTGTTGCCTGCTTACATTTAGTGTGATGATTCACAGA
GCTTCCAGAATTTGAGCAACTGGAAGAAAGAGTTCATATATTACGCAGATGTAAAGAGCCTGAAAGCTT
TCCCTTTGTGATTTGGGCAACAAGACTGACATAAAGAAGCGCAGGTGTCTACAGAAGAAGCCCAAGCC
TGGTGCAAGGACAACGGCGACTATCCTTACTTTGAAACAAGTGCAAAAGATTCCACCAATGTTGCTGCTG
CCTTTGAGGAGGCAGTTCGAAGAATTCTGGCCACGGAAGATAGGTCAGAACACCTGATTCAGACAGACAC
AGTCAATCTGCACCGAAAGCCCAAGCCAACTCATCTTGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR202045 protein sequence Red=Cloning site Green=Tags(s)
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MAGKSSLFKIILLGDGGVGKSSLMNRYVTNKFDSQLFHTIGVEFLNKDLEVDGHFVTMQIWDTAGQERFR
SLRTPFYRGSDCLLTFVDDSQSFQNL SNWKEFIYYADVKEPESFPFVILGNKTDIKERQVSTEEAQA
WCKDNGDYPYFETSAKDSTNVAAAFEEAVRRILATEDRSEHLIQDTVNLHRKPKPNSSCC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019773

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_019773.2](#)

RefSeq Size: 1448 bp

RefSeq ORF: 606 bp

Locus ID: 56382

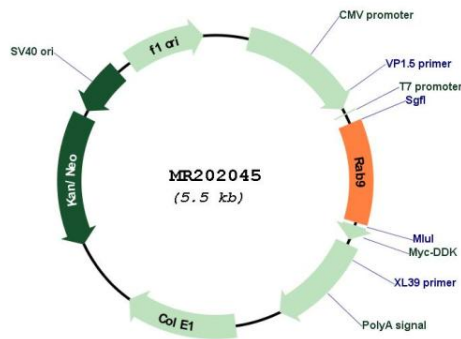
UniProt ID: [Q9R0M6](#)

Cytogenetics: X F5

MW: 22.9 kDa

Gene Summary: Involved in the transport of proteins between the endosomes and the trans-Golgi network (By similarity). Involved in the recruitment of SGSM2 to melanosomes and is required for the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (PubMed:26620560).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202045