

Product datasheet for **MG202321**

Rab2a (NM_021518) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab2a (NM_021518) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rab2a
Synonyms: 9330148M11Rik; C80220; Rab2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202321 representing NM_021518
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTACGCCTATCTCTTCAAGTACATCATCGGCGACACAGGTGTTGGTAAATCGTGCTTATTGC
TACAGTTTACAGACAAGAGGTTTCAGCCGGTGCATGACCTCACAATTGGTGTAGAGTTTGGTGCTCGGAT
GATAACGATTGATGGGAAACAGATAAACTCCAGATCTGGGATACAGCAGGCAGGAGTCCTTTTCGTTCT
ATCACACGGTCATATTACAGAGGTGCAGCGGGGCTTTACTAGTGTATGATATTACAAGGAGAGACACGT
TCAACCACTTGACAACCTGGTTAGAAGATGCCCGTCAGCATTCCAATTCCAACATGGTCATCATGCTTAT
TGGAAATAAAAGTGACTTAGAATCTAGGAGAGAAGTGAAAAGGAAGAAGGTGAAGCTTTTGCACGAGAG
CATGGACTTATCTTCATGGAACTTCTGCCAAGACTGCGTCTAATGTAGAAAAGGCATTTATTAACACAG
CAAAAGAAATTTATGAAAAATCCAAGAAGGGTCTTTGACATTAATAATGAGGCAAACGGCATTAAAT
TGGCCCTCAGCACGCTGCTACCAACGCATCTCATGGAAGCAACCAAGCGGACAGCAGGCAGGGGGAGGC
TGCTGT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202321 representing NM_021518
 Red=Cloning site Green=Tags(s)

MAYAYLFKYIIIGDVGKSCLLLQFTDKRFQPVHDLTIGVEFGARMITIDGKQIKLQIWDTAGQESFRS
 ITRSYYRGAAGALLVYDITRRDTFNHLTTWLEDARQHSNSNMVIMLIGNKSDLESRRREVKKEEGEAFARE
 HGLIFMETSAKTASNVEKAFINTAKEIYEKIQEGVFDINNEANGIKIGPQHAATNASHGNSQGGQQAGGG
 CC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021518

ORF Size: 636 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_021518.2](#), [NP_067493.1](#)

RefSeq Size: 2058 bp

RefSeq ORF: 639 bp

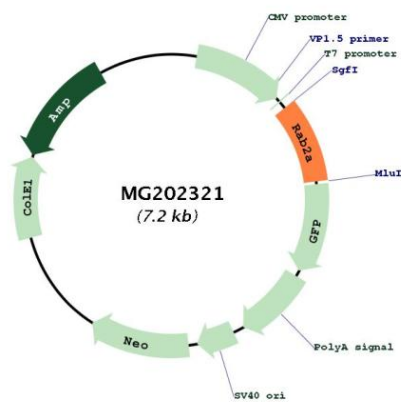
Locus ID: 59021

UniProt ID: [P53994](#)

Cytogenetics: 4 A1

Gene Summary: Required for protein transport from the endoplasmic reticulum to the Golgi complex. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202321