

Product datasheet for **MG201665**

Rap2c (BC094890) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rap2c (BC094890) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rap2c
Synonyms: 2010200P20Rik; AI194294; AL022976
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201665 representing BC094890
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGGAATACAAGGTAGTGGTGTAGGGAGCGGAGGGGTTGGCAAATCTGCCCTACCGTGCAGTTTG
 TCACCGGGACTTTCATTGAGAAATATGACCCACCATTGAAGATTTCTACCGCAAAGAGATCGAAGTGA
 CTCTCCCGTCAGTACTGGAAATCCTGGACCCGAGGAACCGAGCAGTTTGCCTCCATGAGAGATCTG
 TACATCAAGAACGGCCAAGGTTTCATCCTGGTGTATAGTTTGGTTAATCAACAGTCTTTTCAGGATATCA
 AGCCAATGAGAGATCAGATTGTGAGAGTGAAGAGATACGAGAAAGTCCCACTCATCTAGTGGGAAACAA
 AGTGGATCTGGAACCAGAGAGAGAGGTTATGTCTTCCGAAGGCAGAGCTCTGGCTCAAGAATGGGGCTGT
 CCTTTCATGAAAACGTCAGCAAAAAGTAAATCAATGGTGGATGAACTTTTGTGAGATCGTCAGGCAAA
 TGAATATTCATCCCTGCCCGAGAAGCAAGATCAGTGTGTACAACCTGTGTGTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201665 representing BC094890
 Red=Cloning site Green=Tags(s)

MREYKVVVLGSGGVGKSALTVQFVTGTFIEKYDPTIEDFYRKEIEVDSSPSVLEILDAGTEQFASMRDL
 YIKNGQGFILVYSLVNQQSFQDIKPMRDQIVRVKRYEKVPLILVGNKVDLEPEREVMSSSEGRALAEQWGC
 PFMETSAKSKSMVDELFAEIVRQMNYSSLPEKQDQCCTTCVVQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: BC094890

ORF Size: 551 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: [BC094890](#), [AAH94890](#)

RefSeq Size: 3562 bp

RefSeq ORF: 551 bp

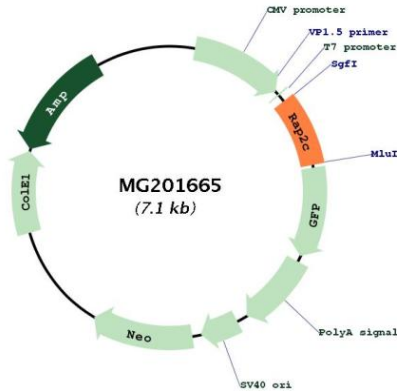
Locus ID: 72065

Cytogenetics: X A5

Gene Summary:

Small GTP-binding protein which cycles between a GDP-bound inactive and a GTP-bound active form. May play a role in cytoskeletal rearrangements and regulate cell spreading through activation of the effector TNIK. May play a role in SRE-mediated gene transcription. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201665