

Product datasheet for MR201665

Rap2c (NM_172413) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rap2c (NM_172413) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rap2c
Synonyms:	2010200P20Rik; AI194294; AL022976
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201665 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGAGGGAATACAAGGTAGTGGTGTAGGGAGCGGAGGGGTTGGCAAATCTGCCCTACCGTGCAGTTTG
 TCACCGGGACTTTTCATTGAGAAATATGACCCACCATTGAAGATTTCTACCGCAAAGAGATCGAAGTGGA
 CTCTTCCCGTCAGTACTGGAAATCCTGGACACCGCAGGAACCGAGCAGTTTGCCTCCATGAGAGATCTG
 TACATCAAGAACGGCCAAGGTTTCATCCTGGTGTATAGTTTGGTTAATCAACAGTCTTTTCAGGATATCA
 AGCCAATGAGAGATCAGATTGTGAGAGTGAAGAGATACGAGAAAGTCCCACTCATCCTAGTGGGAAACAA
 AGTGGATCTGGAACAGAGAGAGAGGTTATGTCTTCCGAAGGCAGAGCTCTGGCTCAAGAATGGGGCTGT
 CCTTTCATGGAACGTCAGCAAAAAGTAAATCAATGGTGGATGAACTTTTGTGAGATCGTCAGGCAAA
 TGAATATTATCCCTGCCCCGAGAAGCAAGATCAGTGTGTACAATTGTGTGTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR201665 protein sequence Red=Cloning site Green=Tags(s)
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MREYKVVVLGSGGVGKSALTVQFVTGTFIEKYDPTIEDFYRKEIEVDSSPSVLEILDAGTEQFASMRDL
 YIKNGQGFI L VYSLVNQQSFQDIKPMRDQIVRVKRYEKVPLILVGNKVDLEPEREVMSSSEGRALAEQWGC
 PFMETSAKSKSMVDELFAEIVRQMNYSLSPEKQDQCCTTCVVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:	Sgfl-MluI
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Cloning Scheme:



ACCN: NM_172413

ORF Size: 549 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_172413.2](#), [NP_766001.1](#)

RefSeq Size: 3562 bp

RefSeq ORF: 552 bp

Locus ID: 72065

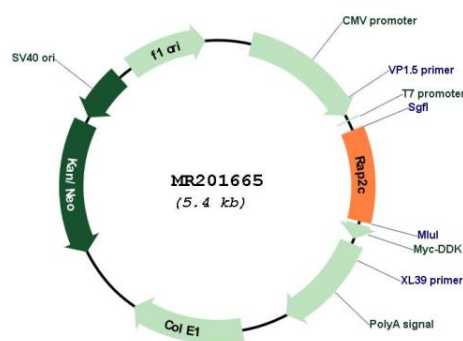
UniProt ID: [Q8BU31](#)

Cytogenetics: X A5

MW: 20.7 kDa

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 MR201665