

Product datasheet for **MR200841**

Rgcc (NM_025427) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rgcc (NM_025427) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rgcc
Synonyms: 1190002H23Rik; Rgc-32; Rgc32
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200841 representing NM_025427
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCCGCCCTCAGCGCAGAGCAGTCCCGGGCGGTGCGGGCCGAGCCCCGGCCATGGACTCCGCGG
CCGCTGCAGACCTGACCGACGTGCTGTGCGAGTTCGACGCGGTGCTGGCCGACTTCGCGTCGCCCTTCCA
CGAGCGCCACTTCCACTATGAGGAGCACCTAGAGCGCATGAAGCGGCGCAGCAGCGCCAGCGTCAGCGAC
AGCAGCGGCTTCAGCGACTCGGAGAGTGCAGACTCAGTGTACAGGGACAGCTTCACCTTCAGTGATGAGA
AGCTGAATTCTCAACCAACTCCTCTCCAGCTCTCCTGCCCTCCGCTGTCACTCCTCGAAAGCCAAATT
AGGTGACACTAAAGAGCTCGAAGACTTCATTGCCGATCTGGACAGGACCTTAGCAAGTATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200841 representing NM_025427
Red=Cloning site Green=Tags(s)

MKPPSAQSSPAAVAAAAPAMDSAAAADLTDVLCDFDAVLADFASPFHERHFHYEEHLERMKRRSSASVSD
SSGFSDSEADSVMYRDSFTFSDEKLNSTNPPALLPSAVTPRKAKLGDTKLEDFIADLDRTLASM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9035_f04.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_025427

ORF Size: 411 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_025427.2](#), [NP_079703.2](#)

RefSeq Size: 934 bp

RefSeq ORF: 414 bp

Locus ID: 66214

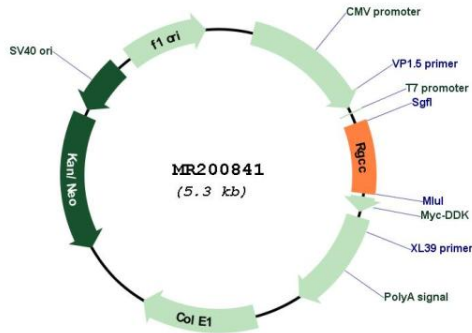
UniProt ID: [Q9DBX1](#)

Cytogenetics: 14 D3

MW: 15.2 kDa

Gene Summary: Modulates the activity of cell cycle-specific kinases. Enhances CDK1 activity. May contribute to the regulation of the cell cycle. May inhibit growth of glioma cells by promoting arrest of mitotic progression at the G2/M transition. Fibrogenic factor contributing to the pathogenesis of renal fibrosis through fibroblast activation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200841