

Product datasheet for **MC217502**

Rcc2 (NM_173867) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rcc2 (NM_173867) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rcc2
Synonyms:	2610510H01Rik; 2610529N02Rik; AA536646; AA675016; mKIAA1470; Td60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217502 representing NM_173867
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCCAGGAAGAAGGGGGCGCCTGGGAGGAGCCGAGTTCGGGCAACGGCACGGCGCGCGGGGGCCCC
 GGCAGCGCGGCCGCCCGCGGCAGGAAGCGCGAGCGGCCCGAGCGCTGCAGCAGCAGCAGCGCGCGCGG
 CAGCAGCGCGCAGGAGCGGCCCGGAGCTGGACGGGGCCCCCGCGCGCGCAAGCGCACAGCCAGGCCG
 GCGACGGCGGGCAAGGCGGCCGCGCGCGCGCATCATCAGGAGCCGAGCACGAAGGAGCGCGTCA
 AACTTGAAGGGTCTAAGTGCAAAGGGCAGCTTTTGATTTTGGGGCAACCACTGGGACTTGATTGGACG
 GAAGGAAGTGCCTAAACAGCAAGCTGCGTACCGCAACCTTGCTCAGAATTTGGGGGCCCATAGGTAT
 GGGTGCCTGTGAGGAGTCCGGTGCGAACCGTGGTTTCAGGCTCATGTGCTGCCACAGCCTCCTCATCA
 CCACAGAAGGGAAGCTGTGGAGCTGGGGTCGAATGAGAAGGGGCGAGCTGGGCCATGGTGATACCAAGAG
 GGTGGAAGCCCCAGACTCATCGAGGCCCTCAGCCATGAGGCAATCGTGTGGCAGCCTGTGGGCGCAAC
 CACACCCTGGCCTTGACAGATACTGGATCAGTGTTTGCCTTCGGAGAGAATAAAATGGGGCAGCTGGGTC
 TCGGGAACCAGACAGATGCCGTCCCAAGTCTGCTCAGATAATGTACAACGGGCAGCCAATCACCAAGAT
 GGCCTGCGGGGCCGAGTTTCAGCATGCTGATGGACTGTAAGGAAACCTCTACTCCTTTGGGTGCCCTGAG
 TATGGCCAGCTGGGGCACAACCTCAGATGGCAAGTTCATCGCCCGGCGCAGAGGATAGAATATGATTGTG
 AGCTGGTGCCCCGAGAGTGGCCATCTTCATCGAGAAGACCAAGGACGGGCAGATCTTACCTGTCCCAA
 CGTGGTGGTTCGAGATGTAGCCTGTGGCGCTAACCACACACTGGTCTGGACTCTCAGAAGCGAGTGTTT
 TCCTGGGGCTTTGGTGGCTATGGCCGGCTGGGCCATGCCGAGCAGAAGGATGAGATGGTGCCTCGCTGG
 TGAAGCTGTTGCACTTCCCGGGCGTGGTGCAACCCAGATCTATGCCGGCTACACCTGCTCCTTCGCTGT
 CAGTGAAGTGGGTGGCCTGTTTTCTGGGGGCCACCAATACCTCCCGAGAGTCTACCATGTACCCGAAG
 GCAGTGCAGGACCTCTGCGGCTGGCGGATCCGAGCCTTGCTGCGGGAAGAGCAGCATCATCGTAGCTG
 CGGACGAGAGTACTATCAGTTGGGGTCCATCGCCAACCTTCGGGGAATTGGGGTATGGGGACCACAAGCC
 CAAGTCTTCTACTGCGGCCAGGAGGTGAAGACTCTGGATGGCATCTTCTCCGAACAGGTGGCCATGGGC
 TATTCACACTCCTTGGTGATAGCGCGAGACGAGAGCGAGGCTGAGAAGGAGAAGCTGCAGAGGCTACCTG
 AGTACACCCCGCGCACCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_173867

Insert Size: 1563 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_173867.5, NP_776292.1</u>
RefSeq Size:	3790 bp
RefSeq ORF:	1563 bp
Locus ID:	108911
UniProt ID:	<u>Q8BK67</u>
Cytogenetics:	4 D3
Gene Summary:	Multifunctional protein that may effect its functions by regulating the activity of small GTPases, such as RAC1 and RALA. Required for normal progress through the cell cycle, both during interphase and during mitosis. Required for the presence of normal levels of MAD2L1, AURKB and BIRC5 on inner centromeres during mitosis, and for normal attachment of kinetochores to mitotic spindles. Required for normal organization of the microtubule cytoskeleton in interphase cells. Functions as guanine nucleotide exchange factor (GEF) for RALA. Interferes with the activation of RAC1 by guanine nucleotide exchange factors (By similarity). Prevents accumulation of active, GTP-bound RAC1, and suppresses RAC1-mediated reorganization of the actin cytoskeleton and formation of membrane protrusions (PubMed:25074804). Required for normal cellular responses to contacts with the extracellular matrix of adjacent cells, and for directional cell migration in response to a fibronectin gradient (in vitro) (By similarity).[UniProtKB/Swiss-Prot Function]