

## Product datasheet for **SC107049**

### **RCC2 (NM\_018715) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RCC2 (NM_018715) Human Untagged Clone
Tag:	Tag Free
Symbol:	RCC2
Synonyms:	TD-60
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_018715, the custom clone sequence may differ by one or more nucleotides

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ATGCCAGGAAGAAGGCGGCGGCGGCGCTGGGAGGAGCCGAGCTCGGGCAACGGCACTGCCCGCGCCG
GGCCAGGAAACGCGGCGGCCGCGGCGAGGAAGCGCGAGCGCCGAGCGCTGCAGTAGCAGCAGCGG
CGGCGGACAGCGGCGACGAGGACGGCCTGGAGCTCGACGGGGCCCCGCGGGGGCAAGCGCGCGGCG
CGGCCGCGACAGCAGGCAAGGCGGCGGCGCGCGTGGTTCATACCGAACCCGAGCACACCAAGGAGC
CGGTCAAACCTGAAGGGTCAAAGTGCAAAGGGCAGCTTTTGATTTTTGGGGCAACCAACTGGGACTTGAT
TGGTCGAAAAGAAGTGCCTAAACAGCAAGCTGCTTACCGCAATCTCGGTGAGAATTTGTGGGGGCCCCAC
AGATATGGGTGCCTGGCGGGGTCCGGGTGCGGACAGTGGTCTCGGGCTCGTGTGCTGCACACAGCCTCC
TCATCACCACGGAAGGGAAGCTGTGGAGCTGGGTGCGAATGAGAAGGGGAGCTGGGACATGGTGACAC
CAAGAGAGTAGAAGCCCTAGACTCATCGAGGGTCTTAGCCACGAAGTGATTGTGTCTGCAGCATGTGGG
CGGAACACACCTTGGCCTTGACGGAAACGGGCTCCGTGTTTGCCTTTGGGAAAACAAGATGGGGCAGC
TGGGCCTTGGCAACCAGACAGACGCTGTCCAGCCCCGCGCAGATAATGTACAACGGCCAGCCAATTAC
CAAATGGCCTGTGGGGCTGAATTCAGTATGATAATGGACTGCAAAGGAAACCTCTATTCCTTTGGGTGC
CCTGAATATGGTCAGCTGGGACACAACCTCAGATGGGAAGTTCATCGCCCGGGCACAGCGGATAGAGTACG
ACTGTGAAGTACTCCCGGCGAGTGGCCATCTTCATTGAGAAGACGAAAGATGGACAGATTCTGCCTGT
ACCAAACGTGGTGTACGAGACGTGGCCTGTGGCGCTAACACACGCTGGTCTGGACTCCGAGAAGCGA
GTCTTCTCCTGGGGCTTTGGTGGCTATGGCCGGCTGGGCCACGCAGAGCAGAAGGATGAGATGGTCCCC
GCCTGGTGAAGCTGTTGACTTCCCTGGGCGTGGGGCTTCCAGATCTATGCTGGTTACACCTGCTCCTT
TGCTGTGAGTGAAGTGGTGGTCTGTTTTCTGGGGGGCCACCAACACCTCCCGTGAATCTACCATGTAC
CCAAAGCAGTGCAGGACCTCTCGGCTGGAGAATCCGGAGCCTGGCTTGTGGGAAGCAGCAGCATATTG
TGGCCCGCGATGAGAGCACCATCAGCTGGGGTCCGTACCGACCTTTGGGAACTGGGCTACGGGGACCA
CAAGCCCCAAGTCTTCCACTGCAGCCCAGGAGGTAAGACTCTGGATGGCATTCTCAGAGCAGGTGCGC
ATGGGCTACTCACACTCCTTGGTGATAGCAAGAGATGAAAGTGGAGTGGAAAGAGAAGATCAAGAAAC
TGCCAGAATACAACCCCGAACCTCTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018715 unedited

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ATTTTGTAAATACGACTACTATAGGGGCGCGCGAATTCGCACGAGGCCCGCGCGCGG
CTCGCTTGCCGCGCGGCCGCACATGTGTTTCTGTTTTGTGTTGTAGCATTGTTCTGGAA
GCTCGTATTTACATTTTAAGTGTATCTGGTGAGTGGGCTGGAGCCCTCGTCTGGGCCGGA
AAAAAAAAAGCCCTCCGATCCGTCTTTAGTTGCTTCTTCTCTTTTCTCTCCGGTTT
CTCATCACTCAAACAGCCGCGACCATGCCAGGAAGAAGGCGGCGGCGGCGGCTGGGA
GGAGCCGAGCTCGGGCAACGGCACTGCCGCGCCGGGCCAGGAAACGCGGCGGCGCCGCG
GGCAGGAAGCGGAGCGGCCGAGCGCTGCAGTAGCAGCAGCGGCGGCGCAGCAGCGG
CGACGAGGACGGCCTGGAGCTCGACGGGGCCCCGCGGGGGCAAGCGCGCGGCGCGGCC
GGCGACAGCAGGCAAGGCGGCGGCGGCGCGTGGTTCATACCGAACCCGAGCACACCAA
GGAGCGGTCAAACCTGAAGGGTCAAAGTGCAAAGGGCAGCTTTTGATTTTTGGGGCAAC
CAACTGGGACTTGATTGGTCGAAAAGAAGTGCCTAAACAGCAAGCTGCTTACCGCAATCT
CGGTGAGAATTTGTGGGGCCCCACAGATATGGGTGCCTGGCGGGGGTCCGGGTGCGGA
CAGTGGTCTCGGGCTCGTGTGCTGCACACAGCCTCCTCATCACCAGGAAGGGGAAGCTG
TGGAGCTGGGGTCCAAATGAGAAGGGGAGCTGGGACATGGTGACACCAAGAGATANAA
GCCCTAGACTCATCGN
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_018715 unedited GCGGCCGCATTCTAGAGTCGAGTTGACAGG AGACAATGGTGTATTATTTAAAATGGTACTCCAAGAAATATATATAAAAAAAAAAATA AGACAATTACAGCACTAAACCAGGCACCTTCGACCAAATCACAACCTCCTCTTTGATTCC CCTTCACGCTAAGCCTCTTTCAAATCTTTTTCTGAGCTGGAACCAGTCAGATGCC GCAGGGTCAGCGCCAAGCACATCCCAACCGGGCAACTGGGTACCTTTCTCTAGGAGTGC ACGACACCCTTCCCCACAACCTCTTGTTTAAAGGATTAACCCATTAGGAAGCCCATG TTTCAATCTAAGCCAAAAGGAGCTGCGGACAAGGCAGTCTTCACTTTGAAGGGCCCTTT CCTGCTCCAGTCCCTGGGCTAGGTTCTAAAAGAGGCTGGCTGCCACGTTTACATGAGGC CACCGAAGATCTAAGTCCAGCTAAGCCCAGGGAGGCTCCTGCAAAGGCTGGGACCTCGGG TGCTGCGTCTCAACCCTCTCGGTGACCACGGCTCAAAGGAGAGACCTCAAGGGTGCCAG GAGCACAGGTGCCTGGGCTGCATTCCAGGAAAGAGACCTGCCAGGAAACGGATCAGGC TGTCGCATGGAAGCTTACGTAGAGATGGTGGTTTTGGGGTGATTTGGACAATTAGGTTA GTTAAGAAAGCTCTGAAGTAGCAGAGCTTCTCCCNGACTACTGGATGACACAAAACAAGA GAGCGCGTGGCGTAGACTAAGTCTAGAGAGAGCAGGCAGTCTCCTCCACAGGCCCTGGGA CTGGAGGACAGAAGTGGTATGCCCTCAGGGGCAGAGTACGTAGGACGACTGGGTGGAAA AGGAAAAGCACACTACTATTTTC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018715
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_018715.1, NP_061185.1</u>
<b>RefSeq Size:</b>	4139 bp
<b>RefSeq ORF:</b>	1569 bp
<b>Locus ID:</b>	55920
<b>UniProt ID:</b>	<u>Q9P258</u>
<b>Cytogenetics:</b>	1p36.13

**Gene Summary:**

The protein encoded by this gene is a guanine exchange factor that is active on RalA, a small GTPase. The encoded protein and RalA are both essential for proper kinetochore-microtubule function in early mitosis. This protein has been shown to be a biomarker for colorectal cancer. [provided by RefSeq, Oct 2016]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.