

Product datasheet for **RG208811**

RCC2 (NM_018715) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RCC2 (NM_018715) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RCC2
Synonyms:	TD-60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208811 representing NM_018715
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGGAAGAAGCGCGCGCGCGCCTGGGAGGAGCCGAGCTCGGGCAACGGCACTGCCCGCGCCG
 GGCCAGGAAACGCGCGCGCCCGCGGGCAGGAAGCGCAGCGGCCGAGCGCTGCAGTAGCAGCAGCGG
 CGCGCGCAGCAGCGCGCAGGACGGCCCTGGAGCTCGACGGGGCCCCCGCGGGGGCAAGCGCGCGCG
 CGGCCGCGCAGCAGGCAAGCGGGCGCGCGCGCTGGTATCACCGAACCCGAGCACACCAAGGAGC
 GCGTCAAACCTGAAGGTCAAAGTGCAAAGGCGAGCTTTTGATTTTTGGGGCAACCACTGGGACTTGAT
 TGGTCGAAAAGAAGTGCCTAAACAGCAAGCTGCTTACCGCAATCTCGGTGAGAAATTTGTGGGGCCCCAC
 AGATATGGGTGCCTGGCGGGGTCGGGTGCGGACAGTGGTCTCGGGCTCGTGTGCTGCACACAGCTCC
 TCATCACCGGAAGGAAGCTGTGGAGCTGGGTGAAATGAGAAGGGGCGAGTGGGACATGGTGACAC
 CAAGAGAGTAGAAGCCCCTAGACTCATCGAGGGTCTTAGCCACGAAGTATTGTGTCTGCAGCATGTGGG
 CGGAACACACCTTGGCCTTGACGGAACGGGCTCCGTGTTTGGGTTTGGGGAAAACAAGATGGGGCAGC
 TGGGCCTTGGCAACCAGACAGACGCTGTTCCAGCCCCGCGCAGATAATGTACAACGGCCAGCAATTAC
 CAAAATGGCCTGTGGGGCTGAATTCAGTATGATAATGGACTGCAAAGGAAACCTCTATTCCTTTGGGTGC
 CCTGAATATGGTCAGCTGGGACACAACCTCAGATGGGAAGTTTCATCGCCCGGCGACAGCGGATAGAGTACG
 ACTGTGAAGTACTCCCCGGCAGTGGCCATCTTCATTGAGAAGACGAAAGATGGACAGATTCTGCCTGT
 ACCAAACGTGGTGTACGAGACGTGGCCTGTGGCGCTAACACACGCTGGTCTGGACTCCAGAAAGCGA
 GTCTTCTCCTGGGGCTTTGGTGGCTATGGCCGGCTGGGCCACGACAGCAGAAGGATGAGATGGTCCCC
 GCCTGGTGAAGCTGTTTACTTCCCTGGCGCTGGGGCTTCCAGATCTATGCTGGTTACACCTGCTCCTT
 TGCTGTAGTGAAGTGGGTGGTCTGTTTTTCTGGGGGGCCACCAACACCTCCCGTGAATCTACCATGTAC
 CAAAAGCAGTGCAGGACCTCTGCGCTGGAGAATCCGGAGCCTGGCTTGTGGGAAGAGCAGCATATTG
 TGGCCCGCATGAGAGCACCATCAGCTGGGGTCCGTACCGACCTTTGGGAACTGGGCTACGGGGACCA
 CAAGCCCAAGTCTTCCACTGCAGCCAGGAGGTAAGACTCTGGATGGCATTTTCTCAGAGCAGGTGCGC
 ATGGGCTACTCACACTCCTTGGTATAGCAAGAGATGAAAGTGAAGTGAAGAGAGAAGATCAAGAAAC
 TGCCAGAATAACAACCCCGAACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208811 representing NM_018715
 Red=Cloning site Green=Tags(s)

MPRKAAAAAAWEEPSSNGTARAGPRKRGGPAGRKRERPERCSSSSGGSSGDEDGLELDGAPGGGKRAA
 RPATAGKAGGAAVVITEPEHTKERVKLEGSCKGQLLIFGATNWDLIGRKEVPKQQAAYRNLRGQNLWGP
 RYGLAGVVRVTVVSGSCAAHSLITTEGLWSWGRNEKQQLGHGDTKRVEAPRLIEGLSHEVIVSAACG
 RNHTLAL TETGSVFAFGENKMGQLGLGNQTDVPSPAQIMYNGQPITKMACGAEF SMIMDCKGNLYSFGC
 PEYQQLGHNSDGKFIARAQRIEYDCELVPRRVAIFIEKTKDGQILPVPNVVVRDVACGANHTLVLDSQKR
 VFSWFGGGRGLGHAEQKDEMVPRLVKLDFPGRGASQIYAGYTCFAVSEVGGFFWATNTSRESTMY
 PKAVQDLCGWRIRSLACGKSSIIVADESTISWGPSPTFGELGYGDHKKPSSTAAEQVKTLDGIFSEQVA
 MGYSHSLVIARDESETEKEKIKKLPEYNPRTL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_018715

ORF Size: 1566 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_018715.4](#)

RefSeq Size: 4139 bp

RefSeq ORF: 1569 bp

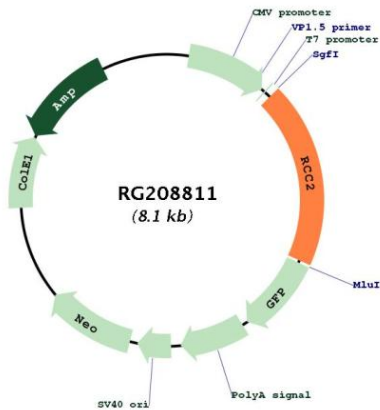
Locus ID: 55920

UniProt ID: [Q9P258](#)

Cytogenetics: 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]

Product images:

Circular map for RG208811