

## Product datasheet for **MC201720**

### **Rcc1l (NM\_033572) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rcc1l (NM_033572) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rcc1l
Synonyms:	5730496C04Rik; AU019812; Wbscr16
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >BC024714 sequence for NM\_033572  
AAGCGGTTGAGGCGTGACGCGGAGGATGTTGGCGGCGGCCGGGGCTCTGCGGGGGCCGCGCCGAGGTGG  
CCGACACCGGCTCGCGAGCACTGGACACCGGCCGGCCGTTGCGGGAGCCGGCGAGAAGCGGCCGAGGCCG  
AGGCGGACGTTCCGGTGTTCAGTACGTGGGCGAGCGCGGGCTCGCGCCGATCGCGTCTTCGTCTGGG  
CTTCAGCTTCCGGGGCGCTCGGGGTGCCAGCTTCGTGGTGCCGTCTCGGGGCTGGACCGCGCCG  
GGCCTGCGGCCCCGACGAGGATCCAGCCGGTCCCCTACCGCTGGAGCTGGATCATAAGATTTCCCTCTG  
CTGCCTGTGGCTATGGATTACATTGCTGTCCTCGAAAACCAAGGATGTTACAAAAGTCTGGGGCATGGG  
ACTCAACAAAGATTCAGCTGGGATTCACAGGAGCCGGAAGGATAAAACCAGGGGCTATGAGTACGTT  
TTGGAGCCCTCGCTGTCCCGCTGCCGCTGGACAGACCTCAGGAGACAAAGGTGTTGCAGGTGCTCTGCG  
GTCGAGCACACTCCCTTGTCTGACAGACAGAGAAGGTGTCTTACAGCATGGGCAACAATCCCACGGGCA  
GTGTGGCCGGAAGGTGGTGGAGGATGAAGTATACAGCGAGAGTACAAAAGTGCACAGGATGCAGGACTTC  
GATGGACAGGTGGTCCAGGTTGTCTGTGGTCAGGACCACAGCCTGTTCTCACAGACAAAGGTGAAGTCT  
ATTCTTGTGGCTGGGGTGGCGATGGACAGACAGGCTGGGTCACTACAACATCACCAGCACACCCAGCAA  
GCTGGGCGGAGACCTTGGCGGGTGACCGTTGTCCAGGTCGCCACCTACGGTGACTGCTGCTTAGCTTTG  
TCCGCTGATGGAGGTGCTTTGGCTGGGAAAATCCGAGTACCTGCAGTTGGCCTCTGTACAGACTCCA  
CACAGGTGAATGTCCCTCGGTGCCTGCCTTTCTCTGGAGTAGGCAAGGTGAAGCAGGTGGCTTGTGGTGG  
CACAGGCTGTGCTGTACTGAACGCGGAGGGACATGTTTTCGTCTGGGGCTATGGAATTTTGGGAAAGGA  
CCAAAGCTCTTGGAAACGGCAATTCAGAAAATGATTCCACCCACGCTCTTTGGTTTGACGGAGTTTAAAC  
CTGAAGTCCAGGTTTCCAGATCCGATGTGGGCTTAGCCACTTTGCCGCACTCACCAACAAGGGTGAGCT  
GTTGCGTGTGGGGCAAGAACATCCGAGGGTGCTTGGGGATTGGCCGCTGGAAGACCAGTACTTCCCATGG  
AGGGTGACGATGCCCCGTGAGCCTGTGGATGTGGCGTGTGGAGTGGATACATGGTGACTTAGCCAAGT  
CATTCACTGAAAGGCCCTCTGGGCCAGCCTGGGAGCCACACCACAGCAGCAGTTGGCAGAGGCAGGG  
GGTGGCCACCAGCAGAGCTTCTGAGGGTACTGGGAGAGGGCCAGGGCCTCTGGGGTGCAGGATGCTTGTCT  
GTGTGCTCAGTGGGGACATTCTACTAGAGGTGTGTGGACAAAGCCCTTCCCCCGCTGAGGTTCTGCT  
GCTGGCTTCAAGCTCAGGATGGCTACAGTTGGCTTACGTTGTTTCTGAGGGCACCAAGGGCTGAAGACCT  
TGGGTGGCCAGGCAGATTCCTTTCCAGGTAACACATGGTAGCATCTGGGGATGTGTCTTGTCTGAGACA  
CTATTCTTAGAGAAAGTTCACTGCTCATGACACATTTGATATTAAGAGTTTAGAGACATGACAAGGCACT  
CAGAAGAACTTGTAGTCCCCTGTACAGGAGGATAAAGTTGGCCTCAGCTCAGCAAGAAGCCAGCTGACT  
GCCTGCAGCTAGGGCCTCTGGTCAAGTGTATCCCAGGAGTCCCAGAGGACAGTCCAGGAGCCAGG  
ATGCCTTGGCTTGAAGCTTGTGAGGCTGCCAGTGGGAGCCAGCCTCCCGCTCAGGTCTACAGTATCC  
CAGCCTTGGAACTTCTCACTGCCTGGCTTTGAACAGCCAGAAGCCCTGAAGAAGACTCTGCGGGCC  
AAGTGCTTGTGGGCTGAGGGCCGTGGAATCTTGGCTGAAGGGCTGGCCTTGGAGTAGGAGCCTCAGAAA  
CTGGGAAATACTTGTTTTTAGGGAAGCTTGCCTTTCTTTCAGAACAGGGTTGGAAAAGGTCTTTTGGAA  
ATAAAGCCTATTTTCTGCCTTTTACAGAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_033572

**Insert Size:** 1386 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.

**RefSeq:** [BC024714](#), [AAH24714](#)

**RefSeq Size:** 2283 bp

**RefSeq ORF:** 1386 bp

**Locus ID:** 94254

**UniProt ID:** [Q9CYF5](#)

**Cytogenetics:** 5 G2

**Gene Summary:** Guanine nucleotide exchange factor (GEF) for mitochondrial dynamin-related GTPase OPA1. Activates OPA1, by exchanging bound GDP for free GTP, and drives OPA1 and MFN1-dependent mitochondrial fusion (PubMed:28746876). Plays an essential role in mitochondrial ribosome biogenesis. As a component of a functional protein-RNA module, consisting of RCC1L, NGRN, RPUSD3, RPUSD4, TRUB2, FASTKD2 and 16S mitochondrial ribosomal RNA (16S mt-rRNA), controls 16S mt-rRNA abundance and is required for intra-mitochondrial translation of core subunits of the oxidative phosphorylation system (By similarity). [UniProtKB/Swiss-Prot Function]