

## Product datasheet for **MC224720**

### **Rb1cc1 (NM\_009826) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rb1cc1 (NM_009826) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rb1cc1
Synonyms:	2900055E04Rik; 5930404L04Rik; Cc1; FIP200; LaXp180
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_009826, the custom clone sequence may differ by one or more nucleotides

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ATGAAGTTATATGTGTTTCTGGTTAACACCGGAACACGCTGACATTTGACACTGAGCTAACTGTGCAAA
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AGTATAG

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_009826  
**Insert Size:** 4767 bp

<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>	<a href="#">BC150774</a> , <a href="#">AAI50775</a>
<b>RefSeq Size:</b>	5132 bp
<b>RefSeq ORF:</b>	4767 bp
<b>Locus ID:</b>	12421
<b>UniProt ID:</b>	<a href="#">Q9ESK9</a>
<b>Cytogenetics:</b>	1 A1
<b>Gene Summary:</b>	Involved in autophagy (PubMed:23262492, PubMed:19258318). Regulates early events but also late events of autophagosome formation through direct interaction with Atg16L1 (PubMed:23392225, PubMed:23285000, PubMed:19258318). Required for the formation of the autophagosome-like double-membrane structure that surrounds the Salmonella-containing vacuole (SCV) during S.typhimurium infection and subsequent xenophagy (PubMed:21525242). Involved in repair of DNA damage caused by ionizing radiation, which subsequently improves cell survival by decreasing apoptosis (PubMed:21807966). Inhibits PTK2/FAK1 and PTK2B/PYK2 kinase activity, affecting their downstream signaling pathways (By similarity). Plays a role as a modulator of TGF-beta-signaling by restricting substrate specificity of RNF111 (PubMed:21795712). Functions as a DNA-binding transcription factor (PubMed:12095676). Is a potent regulator of the RB1 pathway through induction of RB1 expression (PubMed:15968549). Plays a crucial role in muscular differentiation (PubMed:15968549). Plays an indispensable role in fetal hematopoiesis and in the regulation of neuronal homeostasis (PubMed:19940130, PubMed:21088496).[UniProtKB/Swiss-Prot Function]