

## Product datasheet for **MC222166**

### Rin2 (NM\_028724) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rin2 (NM_028724) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rin2
Synonyms:	2010003K16Rik; 4632403N06Rik; AW821980; RASSF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222166 representing NM\_028724  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACCCATTTTGCATTCTCAGCATGGTGAGACACAAGGATGGTGGCTACTCTGAAGACAAGGATGGGA  
 AGACATGTCCCGAGACTCTGGCTATGACAGCCTCTCAAACAGGCTCAGCATTCTGGACCGCTCCTGCA  
 TACCCATCCCATATGGCTGCAGCTGAGTCTGAGTGAGGAGGAGGAGCAGAGGTCCTGCAGGCCAGCCT  
 CCAGGGATCTTTTTGGTTCGAAATCTCCAAAATGCAGAAGAAAGTCTCTCCCTTCGCTGCCCTGTG  
 AATTTGGAGCACCTCTCAAAGAGTTTACTATAAAGGAAAGCACCTACACCTTTTCCCTGGAAGGCTCAGG  
 AATCAGCTTTGCAGATTTATTCCGGCTTATTGCCTTCTACTGCATCAGCAGGGACGTTTTGCCATTACC  
 TTGAAGCTGCCTATGCCATTTCAACAGCCAAGACGGAGTCTCAGCTTGAAGAACTAGCCCAACTGGGAC  
 TAAATTTTTGGAGCTCCTCGGCAGACAACAACCCTGAACTCCCACCTCCCATAGGCCCTTCCCTC  
 AGCCGGCATCTGCCCTGCCTCCTTGCCTCAGCTCTGCCTTATAAATGGAGTGCATTCTATAAAAACCAGG  
 ACGCCTTCGGAGCTGGAGTGCAGCCAGACCAACGGAGCCTTGTGTTTTATAATCTCTTTTCTTGAAGG  
 TGCACAGCCAGGACCTCAGCACAGGCCAAAGCGGCCGAGCACAAAGGACTCCCAACGCGAATGGCACCGA  
 GAGACCTCGGTCCCCCACCAGGCCCGCCACCCGCTATTAATAGTCTGCACACAAGCCTGGGCTA  
 TCCAGGACTGAACCCAGACGAGCATGCCAGAAACAGTCAACCATAGCAAACATGGGAACGTAGCTCTGC  
 TTGGAACAAAACCAACTCCCATCCCTCCACCCGGCTGAAGAAGCAGGCTCTTTTTTTGGAAGCAGAAA  
 CAGCGCAAGACCTTGACTGCCCGCCGGCCAGCCGGAGTGGAGCCCGGAGCCCGAGCTAGAGCTGGAG  
 TTAGAGATGGGCACAGCTGGGCACGCAGTGGAGCCCGCCTAGGACGCCCCGGGATTGCACAAGGG  
 CGCCGCCCGCCGGCTCTGAATCACAGCCACCCTGCCATGGAGCCAGCAGAGGCTGAGCGCATGAG  
 CCTTTCCACTTCTCCTCCGACTCGCTGGAGTTGACCCGAGCATGCCTCTGTATGGGTACGAGGCTGAC  
 ACCACCAGCAGCCTGGAGGACTACGAAGGGGAGAGTGACCAAGAGACCATGGCACCTCCCATCAAGTCCA  
 AAAAGAAGAGGAACAGCTCTTTTGTGCTGCCAAGCTTGTCAAGTCCCAGTTGCGAAAGATGAGCGGGT  
 GTTCAGCTCCTTCATGACCCCTGAGAAGCGGATGGTCCGAGGATCGCCGAGCTGTCCCGGACAAATGC  
 ACCTATTTTGGGTGCTTGGTGCAGGACTACGTGAGCTTCTGAAGGAGAACAAGGAGTGCATGTGTCCA  
 GCACCGATATGCTGCAGACCATCCGGCAGTTTATGACCCAGGTCAAGAATTTTGTCTCAGAGCTCTGA  
 ACTGGACCCCTATTGAGTCACTGATCCAGAAAGACCAATTTGATGTGGTGTGGAGAAGGCCATGCAC  
 AAATGTATCTTGAAGCCCTCAAGGGCCATGTGGAGGCCATGCTGAAGGACTTCCACACGGCTGACGGCT  
 CGTGGAACAACCTCAAGGAAAACCTACAACCTCGTGCAGGAGGAAACCCACAGGAGCTGGGGTCTTTGC  
 CCCAACCCCTGACTTGATGGAGCTGGAGAAAATCAAGCTTAAATTCATGACCATGCAGAAGATGATTTCG  
 CCAGAAAAGAAAGTATGCTTTTGTACGGTCTGTAAGCTCATCTACACTGTATGGAGAACAACCTCAG  
 GGAGGATGTACGGTGCAGACGACTTCTTCCAGTCTGACCTATGTCATAGCTCAGTGTGACATGCTTGA  
 ACTGGACACGGAAATCGAGTACATGATGGAACCTCTGGACCCATCACTGCTGCACGGAGAAGGAGGCTAT  
 TACTTGACAGTGCCTATGGGGCGCTATCTCTGATAAAGAATTTCCAAGAAGAACAGGCTGCGAGACTGC  
 TCAGCTCCGAAGCCAGGGACACGCTGAGGCAGTGGCACAAGCGGAGAACCACCAACCGAACTATCCCCTC  
 CGTTGACGACTTTCAGAATTACCTCCGAGTTGCCTTCCAAGAGGTCAACAGCGGATGCACCTGGGAAGACC  
 CTCTTGTGAGACCGTACATCACCACAGAGGATGTGTGTCAGCTCTGTGCTGAGAAATTTAAGGTGGAGG  
 ACCCTGAAGAGTACAGCCTGTTTCTTTTGTGATGAGACATGGCAACAACCTGGCAGAGGACACTTATCC  
 TCAGAAGATCAAGGCCGAACTGCACAGCCGGCCTCAGCCCCACATCTTCCACTTTGTCTACAAAACGAATC  
 AAGAGTGATCCTTACGGGTGATTTTCCAGAATGGAGAAGACCTCACTCCCTCA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_028724  
**Insert Size:** 2577 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="#">NM_028724.4</a> , <a href="#">NP_083000.5</a>
<b>RefSeq Size:</b>	4668 bp
<b>RefSeq ORF:</b>	2577 bp
<b>Locus ID:</b>	74030
<b>UniProt ID:</b>	<a href="#">Q9D684</a>
<b>Cytogenetics:</b>	2 G1
<b>Gene Summary:</b>	Ras effector protein. May function as an upstream activator and/or downstream effector for RAB5B in endocytic pathway. May function as a guanine nucleotide exchange (GEF) of RAB5B, required for activating the RAB5 proteins by exchanging bound GDP for free GTP (By similarity).[UniProtKB/Swiss-Prot Function]