

## Product datasheet for **MC207931**

### **Rgp1 (NM\_172866) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rgp1 (NM\_172866) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rgp1  
**Synonyms:** 1110029E03Rik; AI527196; F730001J03; mKIAA0258  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207931 representing NM\_172866  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATCGAAGTGGTAGCTGAGCTGAGCAGAGGTCCTGTGTTTCTGGCGGGGAGGCTCTGGAATGTGTGG  
 TGACTGTCACTAATCCCCTTCCCCGACCGCCACTTCTGCATCCAGTGAGGCTCTGGCCTGGCCAGTGC  
 CCAGATCCACTGCCAGTCCATGCCAGCGAGAGTCGAGTAGCACTGCCACCCCTGACTCTAGTCAGCCC  
 GACGTCCAGCCTGACAGCCAGACTGTCTTCTGCCACACCGAGGTGAGAGGGGCCAGTGTATCCTTTCTA  
 CTCCACCCAAAATTCTGTTTTGTGACCTGAGGCTAGACCCTGGAGAGTCCAAATCATATTCTACAGTGA  
 AGTGCTGCCACGGAGGGCCCGCTTCTTCCGGGTCAGTCAGTCAAATATGTCTACAAATTGACCATT  
 GGCTGCCAGCGCGTGAACACCCATCACCTTACTCCGGGTTCTCTGAGAGTTCCTGCTGCTGACTGGTC  
 TTCAAGATGTCCACTTCCCCAGGATGAGGCTGTGGCGCCATCCAGTCCATTCTTAGAGGAGGATGACAG  
 TGGGAAGAAGGACTCATGGCTGGCTGAGCTAGCTGGGGAGCGTCTCATGGCTGCCACATCCTGCCGAGC  
 CTCCATCTGTACAATATCAGCGATGGCCGAGGAAAGTCGGGACGTTCCGGTATCTTCAAATCTGTGTACA  
 GACTTGGCGAAGACGTGGTGGAAACCTTAAATTTAGGGGAAGGAACCGTAGCTTGTCTGCAGTTTTAGT  
 AAGCTTGCAGACTGAAGAACGGGTACAGCCGAATACCAGCGACGCCGCGGACCGGAGTTGCCCTTCA  
 GTGTCCCATGTGACTCATGCCCGCACCAGGAGTCTGCCTACATACAACCAGAACCAGTTCTCTCTCC  
 CCATCCCTCTTTGCTCTACCCCTGGCTTCTGCACTGCCATTGTGTCTTGAAGTGGCGATTACATTTTGA  
 ATTTGTAACATCCCGAGAACCAGGATTGGTACTTCTGCCGCCATTGGAGCAGCCTGAGCCTGCGACCTGG  
 ACAGGGCCTGAACAGGTGCCTGTAGACACCTTCAGCTGGGACCTCCCATCAAAGTGCTTCTCTACAAGCC  
 CCACCTGGTCTCATATGCTGCCCGAGGCCCTAGCACCAGCAGTATAACTATC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_172866
<b>Insert Size:</b>	1176 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>	<u><a href="#">NM_172866.3</a></u> , <u><a href="#">NP_766454.1</a></u>
<b>RefSeq Size:</b>	5868 bp
<b>RefSeq ORF:</b>	1176 bp
<b>Locus ID:</b>	242406
<b>UniProt ID:</b>	<u><a href="#">Q8BHT7</a></u>
<b>Cytogenetics:</b>	4 A5
<b>Gene Summary:</b>	The RIC1-RGP1 complex acts as a guanine nucleotide exchange factor (GEF), which activates RAB6A by exchanging bound GDP for free GTP and may thereby required for efficient fusion of endosome-derived vesicles with the Golgi compartment. The RIC1-RGP1 complex participates in the recycling of mannose-6-phosphate receptors.[UniProtKB/Swiss-Prot Function]