

## Product datasheet for **MC228606**

### Rap1gap (NM\_029563) Mouse Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Rap1gap (NM_029563) Mouse Untagged Clone                                |
| Tag:                      | Tag Free  |
| Symbol:                   | Rap1gap   |
| Synonyms:                 | 1300019I11Rik; 2310004O14Rik; AI427470; ARPP-90; Gap; Rap1ga1; Rap1GAP1 |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |



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**Fully Sequenced ORF:** >MC228606 representing NM\_029563  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTGAAAAGATGCAGGGAAGCAGGATGGATGAACAGCGATGCTCCTCCCGCCACCCTCAAGACGG  
 AGGAGGACTACATTCCCTACCCAAGTGTCCATGAGTTTTGGGGCGAGAAGGGCCCTTCCCCTCATCCT  
 ACTGCCCCAGTTTGGGGCTACTGGATTGAAGGCACCAACCATGAAATCAGCAGCCTCCCTGAGACAGAG  
 CCGCTGCAGTCTCCACCACCAAGTCAAGCTGGAGTGAACCCACAGCCGAATCTACCGGAAGCACT  
 TTCTGGCAAGGAGCACTTCAATTAATTAATCACTGGACTGCTCTCGGCCACCTGGTATTCTCGCTCAA  
 GTATGATGTCATCGGGGATCAGGAGCACCTGCGGCTGTTGCTTAGGACCAAGTGTGGACCCACCACGAT  
 GTCATCCCATCTCCTGCCTCACCGAGTCCCCAACGTGGTCCAGATGGCAAAGCTGGTATGTGAGGATG  
 TCAATGTGGATCGATTACCCCGTCTTACCCTAAGGCCTCCAGGCTCATTGTCACCTTTGACGAACA  
 TGTTATCAGCAATAACTTCAAGTTTGGAGTCATTTATCAGAAGCTTGGCCAGACCTCTGAGGAAGAACTA  
 TTCAGTACCAACGAGGAAAGTCTGCCTTCGTGGAATTCCTGGAGTTTCTGGGCCAGAAAGTGAATTTGC  
 AGGATTTCAAGGGGTTCCGAGGAGGCCCTTGACGTGACTCACGGGCAGACGGGGACCGAGTCCGTATACTG  
 CAACTTCCGCAACAAGGAGATCATGTTTACGTGTCCACCAAGCTGCCATACACAGAAGGGGACGCTCAG  
 CAGTTGCAGCGGAAGCGGCATATCGGGAACGACATCGTCGCTGTGGTCTTCCAGGACGAAAAACACGCCCT  
 TCGTGCCAGACATGATTGCATCCAATTTCTGCATGCCTATGTGGTGGTGCAGGCAGAGGGGGTGGCC  
 CGATGGCCCCCTCTACAAGTCTCTGTCACTGCTAGAGACGATGTGCCCTTTTTTGGGCCTCCCCTCCC  
 GATCCTGCTGTGTTTAGGAAGGGCCTGAGTCCAGGAATTTCTGTGACGAAGTTGATCAATGCCGAGT  
 ATGCGTGTTACAAAGCAGAGAAGTTTGCCAAACTGGAGGAGCGGACGCTGCCGCCCTTCTTGAGACGCT  
 CTACGAGGAGCTCCATATTCACAGCCAGTCCATGATGGCCTCGGCGGCCACGACGACAAGATGGAGAAC  
 GGCAGCGGTGGGGTGGCTTCTTCGAGTCTTCAAGAGGGTATCCGGAGCCGGAGTCACTCCATGGATG  
 CCATGGGACTGAGCAACAAGAAACCAACACCGTGTCAACTAGCCACAGTGGGAGCTTACCCCCAACAA  
 CCCTGACCTGGCCAAGGCAGCCGGCATAATCCCTGATTGTCCCTGGAAAAAGCCCCACAAGGAAGAAGTCT  
 GGTCCGTTTGGCTCACGCCGAGCAGTCCATTGGCATCGAGAACATCCAGGAGGTTCCAGGAGAAGAGGG  
 AGAGCCCTCCAGCTGGCCAGAAGACCCAGACAGCGGGCATGTCTCACAAGAGCCCAAGTCCAGAGAACTC  
 ATCCACTCAGAGCTCCCAGAGATGCCACGACCAAGAACAGAGTGGAGTCCGCTGCCAGAGAACGGAA  
 GTGCTGCAGGGCTTCTCCAGATCTTCTCCAGCGCCAGCAGCTTACCAGCGTGGTGGAGGAGACGGAGG  
 GCGTAGACGGGATGATACAGGCCTGGAGAGCGTGTCTCCTCAGGAACTCCCCATAAGCGGGACTCCTT  
 CCTCTACAGCAGATGGCTGGACGACAGCGTGTGACACCAGAGCGGGGGCAGCTCCCCAGGCCCTCACAGG  
 TCACCCACCCAGACGTCGGCAAGTCCGGGGACCTGCGTGTCCCGAGATCAAGATCCAAGTGGAAACAT  
 CTGAGCAGCACACCCCCAGATGGGCTGC**TAG**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-RsrII

**ACCN:** NM\_029563

**Insert Size:** 1992 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

|                               |  |
|-------------------------------|--|
| <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_029563.1</a> , <a href="#">NP_083839.1</a>  |
| <b>RefSeq Size:</b>           | 3259 bp  |
| <b>RefSeq ORF:</b>            | 1992 bp  |
| <b>Locus ID:</b>              | 110351   |
| <b>UniProt ID:</b>            | <a href="#">A2ALS5</a>   |
| <b>Cytogenetics:</b>          | 4 70.02 cM   |
| <b>Gene Summary:</b>          | <p>GTPase activator for the nuclear Ras-related regulatory protein RAP-1A (KREV-1), converting it to the putatively inactive GDP-bound state.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) represents use of an alternate promoter and initiates translation at a downstream start codon, compared to variant 1. The encoded protein (isoform 3) is shorter when it is compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p> |