

## Product datasheet for **MC211707**

### Rap2a (NM\_029519) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rap2a (NM\_029519) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rap2a  
**Synonyms:** 5830461H18Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC211707 representing NM\_029519  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGCGAGTACAAAGTGGTGGTCTGGGCTCGGGCGGGTAGGCAAATCCGCCCTGACCGTGCAGTTCCG  
TGACCGGCACCTTCATTGAGAAATACGACCCACCATCGAGGACTTCTACCGCAAGGAGATCGAGGTGGA  
CTCCTCGCCTTCGGTGTGGAGATCCTGGACACCGCGGGCACCGAGCAGTTCGCGTCCATCGGGGACCTG  
TACATCAAGAACGCCAGGGCTTCATCCTGGTCTACAGCTTGGTCAACCAGCAGAGCTTCCAAGACATCA  
AGCCCATGCGGGACCAGATCATCCGCGTGAAGCGGTATGAGAAGTTCCAGTCATCCTGGTCCGGGAACAA  
AGTGGACCTGGAGAGTGAGAGAGAAGTGTCTCCAACGAAGCCGCGCCTTGGCCGAGGAGTGGGGCTGC  
CCCTTTATGGAGACTTCTGCTAAGAGCAAACAATGGTGGATGAGCTCTTGCAGAAATTGTGCGGCAGA  
TGAATATGCAGCTCAGCCTGACAAAGATGACCCATGCTGTTCTGCCTGTAAACATACAA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_029519  
**Insert Size:** 552 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).



[View online »](#)

<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_029519.3</a></u> , <u><a href="#">NP_083795.2</a></u>
<b>RefSeq Size:</b>	4174 bp
<b>RefSeq ORF:</b>	552 bp
<b>Locus ID:</b>	76108
<b>UniProt ID:</b>	<u><a href="#">Q80ZJ1</a></u>
<b>Cytogenetics:</b>	14 64.72 cM
<b>Gene Summary:</b>	Small GTP-binding protein which cycles between a GDP-bound inactive and a GTP-bound active form. In its active form interacts with and regulates several effectors including MAP4K4, MINK1 and TNIK. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. More generally, it is part of several signaling cascades and may regulate cytoskeletal rearrangements, cell migration, cell adhesion and cell spreading.[UniProtKB/Swiss-Prot Function]