

## Product datasheet for **MC207657**

### Maip1 (NM\_001081181) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Maip1 (NM\_001081181) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Maip1  
**Synonyms:** 9430016H08Rik; AA409999; C78988  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207657 representing NM\_001081181  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGCTGGCCGCCGCTCTCTACCTCTGCCCTGCTTTCCCGCCGCTGCCCGCCCGGTACCCGAC  
TCCGGACTCTCGGTAGCACCGAGGTGAGGCTGACGCTGACTGAAATTTGCTGCCTGTGCCCGCTCGCT  
GGGCTCAAGCGCGGCTCCGATCCCTCGTACACTCGGGCCTGGACAAGCCCTGCGTTGCGTTCTCTGGAGC  
TCCCGAAGATCCCTTCTCGGCCGGTAGAACATCCTCCAGCCCTCGCTTCTTACCCTAGTCCCAGCC  
GCAGCTACAGCACCGAGGAGCAGCCCCAGCAACGCCAGAGAACCAGAATGATCATTCTGGGATTTCCAA  
TCCCATCAACTGGGTCCGGACTCGAATTTACGCCCTTCTTATTTGGGCTATTTGACAAAGAGTTCACT  
ATCGCTGAGTTCTCTGAAGGGCGAAGCAGGCTTTTGCTTATGTATCCAAGTTGCTGTCACAGTGTAAAT  
TTGATCTATTGGAAGAACTTGTAGCCAAAGAGGTGCTACAGATATTTAAAGAAAAAGTTACTTCATTGTC  
TGATAACCATAAGAATGCACTTGCTGCAGACATAGATGACATTGTCTACACATCAACAGGCGATATCTCC  
ATTTACTATGATGAGAAAGGAAGGAAGTTGTGAACATCCTGATGTGCTTTTGGTATCTGACTAGTGCCA  
ACATCCCAGTGAGTCTTTAAGTGGAGCCAATGTGTTCCAGTGAAGCTGGGGATCAGAGTGTGGAAAC  
TAAACAGCTGCTCAGTGCAAGCTATGAATTTAGAGGGAATTCACACAAGGAGTAAAGCCGTATTGGACG  
ATTGCGGGATTGAACACTCCAAGTTACTAGAA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001081181  
**Insert Size:** 876 bp



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<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_001081181.2</a></u> , <u><a href="#">NP_001074650.1</a></u>
<b>RefSeq Size:</b>	1325 bp
<b>RefSeq ORF:</b>	876 bp
<b>Locus ID:</b>	68115
<b>UniProt ID:</b>	<u><a href="#">Q8BHE8</a></u>
<b>Cytogenetics:</b>	1 C1.3
<b>Gene Summary:</b>	Promotes sorting of SMDT1/EMRE in mitochondria by ensuring its maturation. Interacts with the transit peptide region of SMDT1/EMRE precursor protein in the mitochondrial matrix, leading to protect it against protein degradation by YME1L1, thereby ensuring SMDT1/EMRE maturation by the mitochondrial processing peptidase (PMPCA and PMPCB). [UniProtKB/Swiss-Prot Function]