

Product datasheet for RN206361

Maip1 (NM_001004251) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Maip1 (NM_001004251) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Maip1
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Fully Sequenced ORF: >RN206361 representing NM_001004251
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCTGGCCGCCCGTCTCCTACCTCTTCCCCTGCTTTCTTGGTCGCTGCCGGCCGGGCCACCAGAC
 TCAGGACTCTCCGTACCACCGAGGTGAAGCTGACGCTCAATGAATTTTGTGTCTGTGCCCGCTCGCCT
 GGGCTCAAGCGCGGCTCCGATCCCTCGCTGTACTTGGGCTGGCAAGCCCGACGATGCGTTCCTGGGGC
 CCCCGAAGGCCCTTCTCGGCCGGGCAGAACATCTCCAGCCCTCGCTTCTTTACCCGCTAGTCCCATT
 GCAGTTACAGCACCGAGGAGCAGCCCCAGCAACGCCAGAGAACCAGAATGATCATTCTGGGATTTTCCAA
 TCCCATCAACTGGGTCCGACTCGAATTTATGCCTTCTTATCTGGGCCTATTTGACAAAAGAGTTCAGT
 ATCGCTGAGTTCTCTGAAGGGGCAAAGCAGGCTTTTGTATGTATCCAAGTTGCTGTACAGTGTAAAT
 TTGATCTATTGGAAGAACTTGTAGCCAAAGAGGTGCTGCAGGTATTTAAAGAAAAGGTTGCTTCATTGTC
 TGATAACCATAAGAATGCACTTGCTGCAGACATAGATGATATTGTCTACACATCAACAGGCGACATCTCT
 ATTTACTATGATGAGAAAGGAAGGAAAGTTCGTTAACATCCTGATGTGCTTTTGGTATCTGACTAGTGCCA
 ACATCCCCAGTGAGTCTTTAAGTGGAGCCAATGTGTTCCAGGTGAAGCTGGGGGATCAGAGCGTGGAGAC
 TAAACAGCTGCTCAGTGGAGTTATGAATTTAGAGGGAATTTACACAAGGAGTAAAGCCTGACTGGACT
 ATTGCACGGATTGAGCACTCAAAGTTACTAGAA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
 ACCN: NM_001004251
 Insert Size: 876 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).
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	<u>NM_001004251.1</u> , <u>NP_001004251.1</u>
RefSeq Size:	1417 bp
RefSeq ORF:	876 bp
Locus ID:	301418
UniProt ID:	<u>Q6AY04</u>
Cytogenetics:	9q31
Gene Summary:	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]