

Product datasheet for SC305125

C2ORF47 (MAIP1) (NM_024520) Human Untagged Clone

Product data:

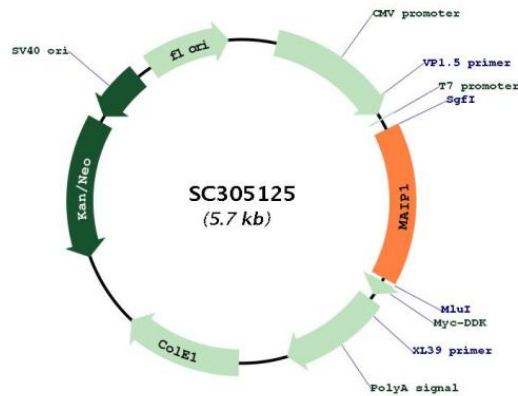
Product Type:	Expression Plasmids
Product Name:	C2ORF47 (MAIP1) (NM_024520) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAIP1
Synonyms:	C2orf47
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305125 representing NM_024520. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGGCGCTGGCCGCTCGTTTGCTACCCAGTTCCTGCACTCTCGGTGCTGCCCTGCGGGCCGTCCGA
CTCCGGACTCCTGCTGTGGCCGAGGTGAGGCTGCCGTCGGCCACACTTTGCTACTTCTGCCGCTGTGCG
CTCGGCTTGGGAGCGGCTTATTTCCACGAAGCGCTAGGGCCTTGGCAGCCTCGGCGCTACCTGCCAG
GGCTCCCGGTGGCCAGTCTCAGCAGCCCGGACTCCCCGAGCCTTCGTTCTTCCCTGCCTGCCCT
CAGCGCAGCTACAGCACGGAGGAGAAGCCCCAGCAGCACCAGAAAACCAAGATGATCGTCTGGGATTC
TCCAACCCATCAACTGGTTAGGACTCGAATTAAGGCCTTCCTATCTGGGCCTATTTGACAAAAGAG
TTCAGCATCACAGAGTTCTCCGAGGGAGCGAAGCAGGCTTTTGCTCATGTATCCAAGTTGCTGTCACAG
TGTAATTTGATCTGTTGGAAGAACTTGTGGCCAAAGAGGTGCTACATGCATTGAAAAGAAAAGGTTACT
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GACATCTCCATTTACTATGATGAGAAAGGAAGGAAATTTGTTAACATCCTGATGTGCTTTTGGTATCTA
ACCAGTGCCAACATCCCCAGTGAACCTTAAGAGGAGCCAGTGTATTCCAGGTTAAGTTGGGGAATCAG
AATGTGAAAACAAACAACCTTCTTAGTGCAAGCTATGAGTTTCAGAGGGAGTTACACAAGGAGTAAAG
CCTGACTGGACCATTGCACGGATTGAACACTCAAAATTATTAGAA TAA
ACGGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_024520

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:

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: [NM_024520.2](#)

RefSeq Size: 1525 bp

RefSeq ORF: 876 bp

Locus ID: 79568

UniProt ID: [Q8WWC4](#)

Cytogenetics: 2q33.1

MW: 32.5 kDa

Gene Summary: Promotes sorting of SMDT1/EMRE in mitochondria by ensuring its maturation (PubMed:27642048). 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) (PubMed:27642048).[UniProtKB/Swiss-Prot Function]