

## Product datasheet for **SC308064**

### MAFA (NM\_201589) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAFA (NM_201589) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAFA
Synonyms:	hMafA; INSDM; RIPE3b1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_201589 edited ATGGCCGCGGAGCTGGCGATGGGCGCCGAGCTGCCAGCAGCCGCTGGCCATCGAGTAC GTCAACGACTTCGACCTGATGAAGTTCGAGGTGAAGAAGGAGCCTCCCGAGGCCGAGCGC TTCTGCCACCGCCTGCCGCCAGGCTCGCTGTCTCGACGCCGCTCAGCACGCCCTGCTCC TCCGTGCCCTCCTCGCCAGCTTCTGCGCGCCAGCCCGGGCACCGGCGGCGGGCGGGC GCGGGGGGCGGGCGGCTCGTCTCAGGCCGGGGCGCCCCGGGCCGCGAGCGGGGGC CCCGGCGCGTCCGGGGCACCTCGGGGAAGCCGGCGCTGGAGGATCTGTACTGGATGAGC GGCTACCAGCATCACCTCAACCCGAGGCGCTCAACCTGACGCCCGAGGACGCGGTGGAG GCGCTCATCGGCAGCGGCCACCACGGCGCGCACCACGGCGCGCACCACCCGGCGGCCGCC GCAGCCTACGAGGCTTTCCGCGGCCCGGGCTTCGCGGGCGGGCGGAGCGGACGACATG GGCGCCGCCACCACCACGGCGCGCACCACGCCGCCACCACCACCACCGCCGCCACCAC CACCACCACCACCACCACCATTGGCGCGCGGGACACGGCGGTGGCGCGGGCCACCAC GTGCGCCTGGAGGAGCGCTTCTCCGACGACCAGCTGGTGTCCATGTCCGTGCGCGAGCTG AACCGGCGAGTCCGCGGCTTACGCAAGGAGGAGGTATCCGGCTCAAGCAGAAGCGGCGC ACGCTCAAGAACC CGGCTACGCGCAGTCTGCCGCTTCAAGCGGGTGCAGCAGCGGCAC ATTCTGGAGAGCGAGAAGTGCCAACTCCAGAGCCAGGTGGAGCAGCTGAAGCTGGAGGTG GGGCGCCTGGCCAAAGAGCGGGACCTGTACAAGGAGAAATACGAGAAGCTGGCGGGCCGG GGCGCCCCGGGAGCGCGGGCGGGCCGGTTTCCCGGGGAGCCTTCGCCGCCGAGGCC GGTCCCGCGGGGCCAAGGGCACGGCCGACTTCTCCTGTAG
Restriction Sites:	Please inquire
ACCN:	NM_201589
Insert Size:	2600 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** The final clone matches with NM\_201589.2, and its ORF carries a 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:**

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\\_201589.2](#), [NP\\_963883.2](#)

**RefSeq Size:** 1062 bp

**RefSeq ORF:** 1062 bp

**Locus ID:** 389692

**UniProt ID:** [Q8NHW3](#)

**Cytogenetics:** 8q24.3

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS

**Protein Pathways:** Maturity onset diabetes of the young, Type II diabetes mellitus

**Gene Summary:** MAFA is a transcription factor that binds RIPE3b, a conserved enhancer element that regulates pancreatic beta cell-specific expression of the insulin gene (INS; MIM 176730) (Olbrot et al., 2002 [PubMed 12011435]).[supplied by OMIM, Mar 2008]