

Product datasheet for **RG214782**

MAFA (NM_201589) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAFA (NM_201589) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAFA
Synonyms:	hMafA; INSDM; RIPE3b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214782 representing NM_201589 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGGAGCTGGCGATGGGCGCCGAGCTGCCAGCAGCCCGCTGGCCATCGAGTACGTCAACGACT
TCGACCTGATGAAGTTCGAGGTGAAGAAGGAGCCTCCCGAGGCCGAGCGTTCTGCCACCGCTGCCGCC
AGGCTCGTGTCTCGACGCCGCTCAGCACGCCCTGCTCCTCCGTGCCCTCCTCGCCAGCTTCTGCGCG
CCCAGCCCGGGCACCGGGCGCGGGCGCGCGGGGGCGGGCGGGCTCGTCTCAGGCCGGGGCGCC
CCGGGCCCGGAGCGGGGCCCGCGCGCTCGGGGACCTCGGGGAAGCCGGCGCTGGAGGATCTGTA
CTGGATGAGCGGCTACCAGCATCACTCAACCCGAGGCGCTCAACCTGACGCCCGAGGACGCGGTGGAG
GCGCTCATCGGCAGCGGCCACCACGCGCGCACACCACGGCGCGCACCCCGCGCGCCGCCGAGCCTACG
AGGCTTTCCGCGGCCCGGGCTTCGCGGGCGGGCGGGAGCGGACGACATGGGCGCCGCCACCACCACGG
CGCGCACCGCCGCCACCATCACCACGCCGCCACCACCACCACCACCACCACCATGGCGGC
GCGGGACCGCGGTGGCGGGGCCACCACGTGCGCCTGGAGGAGCGCTTCTCCGACGACCAGCTGGTGT
CCATGTGGTGCAGGCTGAACCGGAGCTCCGCGGCTCAGCAAGGAGGAGGTATCCGGCTCAAGCA
GAAGCGGCGCACGCTCAAGAACCAGCGGCTACGCGAGTCTCCGCTTCAAGCGGTGCAGCAGCGGCAC
ATTCTGGAGAGCGAGAAGTGCCAACTCCAGAGCCAGGTGGAGCAGTGAAGCTGGAGTGGGGCGCCTGG
CCAAAGAGCGGGACCTGTACAAGGAGAAAATACGAGAAGCTGGCGGGCCGGGGCGGCCCGGGAGCGCGGG
CGGGGCCGGTTTCCCGGGGAGCCTTCGCCCGCGAGGCCGTTCCCGCGGGGCCAAGGGCACGGCCGAC
TTCTTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214782 representing NM_201589
 Red=Cloning site Green=Tags(s)

MAAELAMGAELPSSPLAIEYVNDFDLMKFEVKKEPPEAERFCHRLPPGSLSSSTPLSTPCSSVPSSPSFCA
 PSPGTGGGGGAGGGSSQAGGAPGPPSGPGAVGGTSGKPALEDLYWMSGYQHHLNPEALNLTPEDAVE
 ALIGSGHHGAHHGAHHPAAAAAYEAFRPGFAGGGGADDMGAGHHGAHHAHHHHHHHHHHHHHHGG
 AGHGGGAGHHVRLLEERFSDDQLVMSVRELNRQLRGFSKEEVIRLKQKRRTLKNRGYAQSCRFKRVQQRH
 ILESEKQQLQSQVEQLKLEVGRLAKERDLYKEYEKLGRGGPGSAGGAGFPREPSPQAGPGGAKGTAD
 FFL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201589

ORF Size: 1059 bp

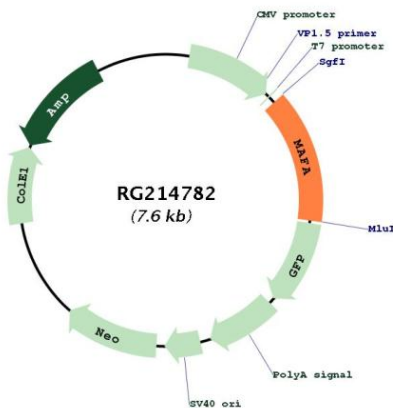
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- 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_201589.4](#)
- 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]

Product images:



Circular map for RG214782