

Product datasheet for **RG215609**

MAFF (NM_012323) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAFF (NM_012323) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MAFF
Synonyms: hMaff; U-MAF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG215609 representing NM_012323
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTGGATCCCCTATCCAGCAAAGCTCTAAAGATCAAGCGAGAGCTGAGCGAGAACACGCCGACC
TGTCGGACGAGGCGCTGATGGGGCTGTCGGTGCGCGAGCTGAACCGGCATCTGCGCGGGCTCTCCGCCGA
GGAGGTGACACGGCTCAAGCAGCGCGCCGCACACTCAAAAACCGTGGCTACGCCCCAGCTGCCGCGTG
AAGCGCGTGTGCCAGAAGGAGGAGCTGCAGAAGCAGAAGTCGGAGCTGGAGCGGAGGTGGACAAGCTGG
CGCGGAGAACGCCGCCATGCGCCTGGAGCTCGACGCGCTGCGCGCAAGTGCAGGCGCTGCAGGGCTT
CGCGCGCTCCGTGGCCGCGCCCGGGCCCGCCACGCTCGTGGCGCCGCGCCAGCGTCATCACCATCGTC
AAGTCCACCCCGGGCTCGGGGTCTGGCCCGCCACGGCCCGGACCCCGCCACGGCCCGGCTCTCTGCT
CC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215609 representing NM_012323
Red=Cloning site Green=Tags(s)

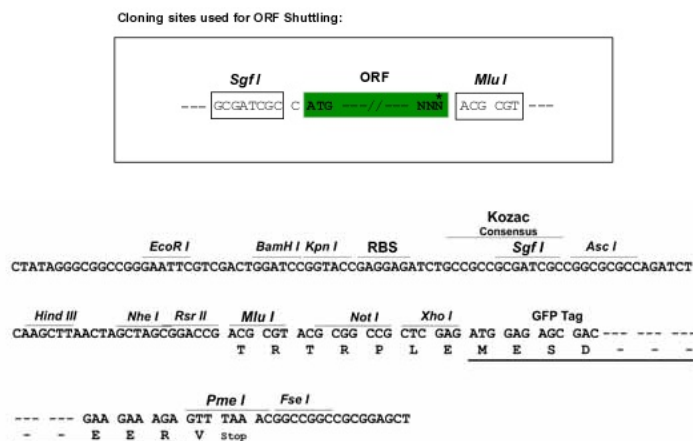
MSVDPLSSKALKIKRELSENTPHLSDEALMGLSVRELNRLRGLSAEEVTRLKQRRRTLKNRGYAASCRV
KRVQCQKEELQKQKSELEREVDKLARENAAMRLELDALRGKCEALQGFARSVAAARGPATLVAPASVITIV
KSTPGSGSPAHPDPAHGPASCS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_012323

ORF Size: 492 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).

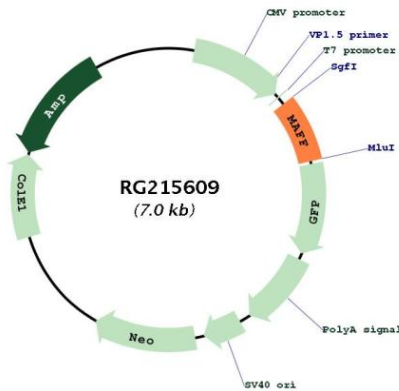
Reconstitution Method:

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_012323.4](#)
RefSeq Size: 2382 bp
RefSeq ORF: 495 bp
Locus ID: 23764
UniProt ID: [Q9ULX9](#)
Cytogenetics: 22q13.1
Domains: bZIP_Maf, BRLZ
Protein Families: Druggable Genome, Transcription Factors
Gene Summary:

The protein encoded by this gene is a basic leucine zipper (bZIP) transcription factor that lacks a transactivation domain. It is known to bind the US-2 DNA element in the promoter of the oxytocin receptor (OTR) gene and most likely heterodimerizes with other leucine zipper-containing proteins to enhance expression of the OTR gene during term pregnancy. The encoded protein can also form homodimers, and since it lacks a transactivation domain, the homodimer may act as a repressor of transcription. This gene may also be involved in the cellular stress response. Multiple transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2009]

Product images:



Circular map for RG215609