

Product datasheet for **RG207311**

MAFB (NM_005461) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAFB (NM_005461) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAFB
Synonyms:	DURS3; KRML; MCTO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207311 representing NM_005461 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGGAGCTGAGCATGGGGCCAGAGCTGCCACCAGCCCGCTGGCCATGGAGTATGTCAACGACT
TCGACCTGCTCAAGTTCGACGTGAAGAAGGAGCCACTGGGGCGCGCGAGCGTCCGGGCAGGCCCTGCAC
ACGCCTGCAGCCAGCCGGCTCGGTGTCTCCACACCGCTCAGCACTCCGTGTAGCTCCGTGCCCTCGTCG
CCCAGCTTCAGCCCGACCGAACAGAAGACACACCTCGAGGATCTGTACTGGATGGCGAGCAACTACCAGC
AGATGAACCCCGAGGCGCTCAACCTGACGCCCGAGGACGCGGTGGAAGCGCTCATCGGCTCGACCCAGT
GCCACAGCCGCTGCAAAGCTTCGACAGCTTTCGCGGCGCTCACCACCACCACCATCACCACCACCCCTCAC
CCGACACACGCGTACCCGGGCGCCGCGTGGCCACGACGAGCTGGGCCCGCACGCTACCCGCACCATC
ACCATCATCACCAGCGTCGCCGCCGCGCTCCAGCGCCGCTAGCCCGGCGCAACAGCTGCCCACTAGCCA
CCCCGGGCGCGGCGCACGCGACGGCTCGGCGACGGCGGCGGGCGGCAACGGCAGCGTGGAGGACCGC
TTCTCCGATGACCAGCTCGTGTCCATGTCCGTGCGCGAGCTGAACCGCCACCTGCGGGGCTTCACCAAGG
ACGAGGTGATCCGCTGAAGCAGAAGCGGCGGACCCTGAAGAACCAGGGGTACGCCAGTCTTGACAGTA
TAAACGCGTCCAGCAGAAGCACCTGGAGAATGAGAAGACGCGAGCTCATTAGCAGGTGGAGCAGCTT
AAGCAGGAGGTGTCCCGCTGGCCCGCGAGAGACGCTACAAGGTCAAGTGCGAGAACTCGCCAAT
CCGGCTTCAGGAGGCGGGCTCCACGCGACAGCCCTCCTCTCCGAGTTCTTCTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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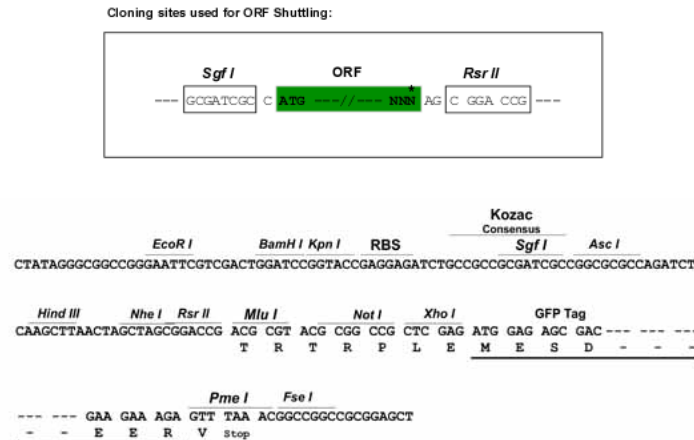
Protein Sequence: >RG207311 representing NM_005461
 Red=Cloning site Green=Tags(s)

MAAELSMGPELTSPLAMEYVNDFDLLKFDVKKEPLGRAERPGRPCTRLQPAGSVSSTPLSTPCSSVPSS
 PSFSPTTEQKTHLEDLYWMASNYQQMNPEALNLTPEDAVEALIGSHPVPQLQSFDSFRGAHHHHHHHHPH
 PHHAYPGAGVAHDELGPHAHPHHHHHHQASPPSSAASPAQQLPTSHPGPGPHATASATAAGNGSVEDR
 FSDQLVSMVRELNRHLRGFTKDEVIRLKQKRRTLKNRGYAQSCRYKRVQQKHLENEKTQLIQVVEQL
 KQEVSRRLARERDAYKVKCEKLANSGFREAGSTDSPSSPEFFL

SGPTRTRLE – GFP Tag – V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_005461

ORF Size: 969 bp

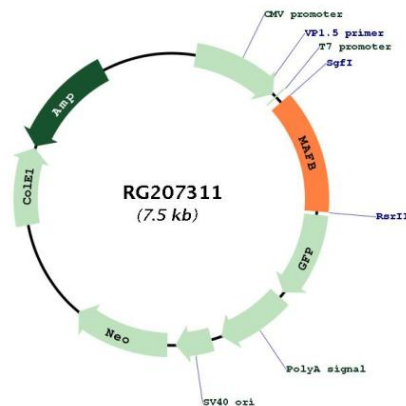
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<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_005461.3, NP_005452.2</u>
RefSeq Size:	3378 bp
RefSeq ORF:	972 bp
Locus ID:	9935
UniProt ID:	<u>Q9Y5Q3</u>
Cytogenetics:	20q12
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 plays an important role in the regulation of lineage-specific hematopoiesis. The encoded nuclear protein represses ETS1-mediated transcription of erythroid-specific genes in myeloid cells. This gene contains no introns. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207311