

Product datasheet for **RC207311**

MAFB (NM_005461) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAFB (NM_005461) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAFB
Synonyms:	DURS3; KRML; MCTO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207311 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGGAGCTGAGCATGGGGCCAGAGCTGCCACCAGCCCGCTGGCCATGGAGTATGTCAACGACT
TCGACCTGCTCAAGTTCGACGTGAAGAAGGAGCCACTGGGGCGCGGAGCGTCCGGGCAGGCCCTGCAC
ACGCCTGCAGCCAGCCGGCTCGGTGTCTCCACACCGCTCAGCACTCCGTGTAGCTCCGTGCCCTCGTCG
CCCAGCTTCAGCCCGACCGAACAGAAGACACACCTCGAGGATCTGTACTGGATGGCGAGCAACTACCAGC
AGATGAACCCCGAGGCGCTCAACCTGACGCCCGAGGACGCGGTGGAAGCGCTCATCGGCTCGACCCAGT
GCCACAGCCGCTGCAAAGCTTCGACAGCTTTCGCGGCGCTCACCACCACCACCATCACCACCACCCTCAC
CCGACCACGCGTACCCGGGCGCCGCGTGGCCACGACGAGCTGGGCCCGCACGCTCACCCGCACCATC
ACCATCATCACCAAGCGTCGCGCGCCGCTCCAGCGCCGCTAGCCCGGCGCAACAGCTGCCCACTAGCCA
CCCCGGGCCCCGGGCCGACGCGACGGCCTCGGCGACGGCGGGCGGCAACGGCAGCGTGGAGGACCGC
TTCTCCGATGACCAGCTCGTGTCCATGTCCGTGCGCGAGCTGAACCGCCACCTGCGGGGCTTACCAAGG
ACGAGGTGATCCGCTGAAGCAGAAGCGGCGACCCTGAAGAACCGGGGTACGCCAGTCTTGCAGGTA
TAAACGCGTCCAGCAGAAGCACCTGGAGAATGAGAAGACGCAGCTCATTAGCAGGTGGAGCAGCTT
AAGCAGGAGGTGTCCCGCTGGCCCGCAGAGAGACGCCTACAAGTCAAGTCCGAGAACTCGCCAAC
CCGGCTTCAGGGAGGCGGGCTCCACCAGCGACAGCCCTCTCTCCCGAGTTCCTTCTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207311 protein sequence
Red=Cloning site Green=Tags(s)

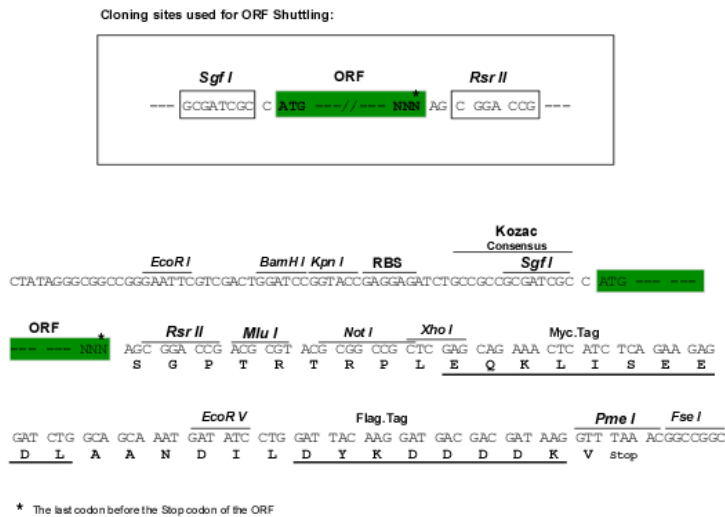
MAAELSMGPELPTSPLAMEYVNDFDLLKFDVKKEPLGRAERPGRPCTRLQPAGSVSSTPLSTPCSSVPSS
 PSFSPTTEQKTHLEDLYWMASNYQQMNPEALNLPEDAVALIGSHVPVQPLQSFDSFRGAHHHHHHHHPH
 PHHAYPGAGVAHDELGPHAHPHHHHHHQASPPSSAASPAQQLPTSHPGPGPHATASATAAGNGNSVEDR
 FSDDQLVSMVSVRELNRLRGFTKDEVIIRLQKRRTLKNRGYAQSCRYKRQVQKHLENEKTLIQQVEQL
 KQEVSRRLARERDAYKVKCEKLANSGFREAGSTSDSPSSPEFFL

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6183_g05.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_005461

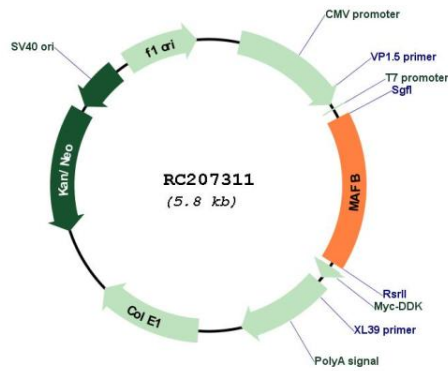
ORF Size: 969 bp

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.

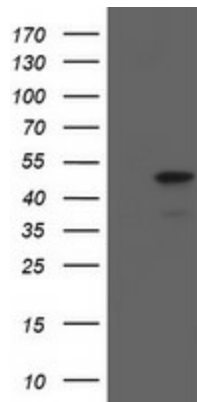
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005461.5
RefSeq Size:	3395 bp
RefSeq ORF:	972 bp
Locus ID:	9935
UniProt ID:	Q9Y5Q3
Cytogenetics:	20q12
Domains:	bZIP_Maf, BRLZ
Protein Families:	Druggable Genome, Transcription Factors
MW:	35.8 kDa
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]

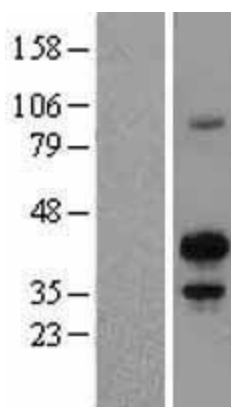
Product images:



Circular map for RC207311



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAFB (Cat# RC207311, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAFB(Cat# [TA800290]). Positive lysates [LY401676] (100ug) and [LC401676] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401676]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207311 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).