OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR204681

Mafb (NM_010658) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mafb (NM_010658) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mafb
Synonyms:	kr; Kreisler; Krml; Krml1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR204681 representing NM_010658
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCGGAGCTGAGCATGGGGCAAGAGCTGCCCACCAGCCCGCTGGCCATGGAGTACGTCAACGACT
TCGACCTTCTCAAGTTCGACGTGAAGAAGGAGCCCCTGGGGCGCGCGGAGCGTCCGGGCCGGCCATGCAC
ACGCCTGCAGCCTGCTGGCTCGGTGTCGTCCACCCCGCTCAGCACTCCGTGCAGCTCCGTGCCTTCTTCT
CCCAGCTTCAGTCCGACTGAACCGAAGACCCATCTCGAGGACCTGTACTGGATGGCGAGCAACTACCAGC
AGATGAACCCCGAGGCACTCAACCTGACGCCCGAGGACGCGGTGGAGGCGCTCATCGGTTCGCACCCAGT
GCCCCAGCCGCTGCAGAGCTTCGACGGCTTCCGTAGTGCGCACCACCATCACCACCACCACCACCCTCAT
CCGCACCACGGGTACCCAGGAGCAGGTGTGACTCACGATGACCTGGGCCAGCACGCTCACCCGCACCATC
ACCATCATCACCAAGCGTCGCCCCCGCCGTCCAGCGCTGCCAGTCCCGCGCAACAGCTACCCACTAGCCA
CCCGGGGCCGGGACCGCACGCAACAGCCGCGGCGACGGCTGCGGGCGGCAACGGTAGTGTGGAGGACCGC
TTCTCTGATGACCAGCTGGTGTCCATGTCGGTGCGTGAGCTGAACCGCCACCTGCGGGGCTTCACCAAGG
ACGAGGTGATCCGCCTGAAGCAGAAGCGGCGGACCCTGAAGAACCGGGGCTACGCCCAGTCGTGCAGGTA
TAAACGCGTCCAGCAGAAACATCACCTGGAGAACGAGAAGACGCAGCTCATTCAGCAGGTGGAGCAGCTT
AAGCAGGAGGTGTCCCGGCTGGCCCGCGAGAGAGACGCCTACAAGGTCAAGTGCGAGAAACTCGCCAACT
CCGGCTTCAGGGAGGCGGGCTCCACCAGCGACAGCCCCTCCTCTCCTGAGTTCTTTCTG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

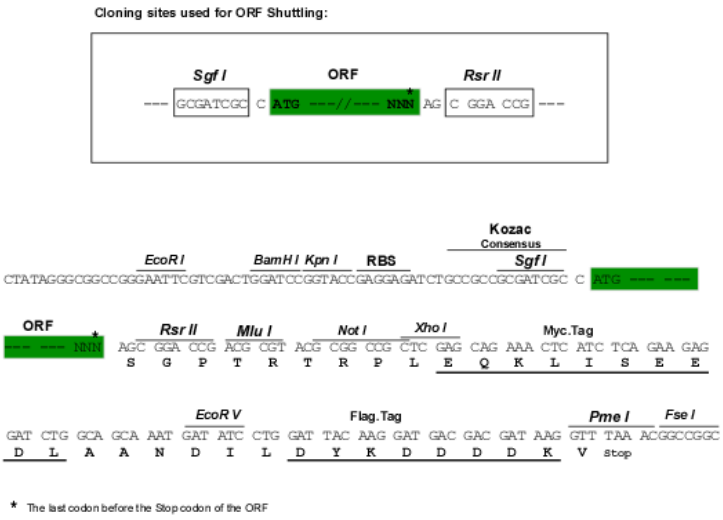
>MR204681 representing NM_010658
Red=Cloning site Green=Tags(s)

MAAELSMGQELPTSPLAMEYVNDFDLLKFDVKKEPLGRAERPGRPCTRLQPAGSVSSTPLSTPCSSVPSS
PSFSPTEPKTHLEDLYWMASNYQQMNPEALNLTPEDAVEALIGSHPVPQPLQSFDGFRSAHHHHHHHHPH
PHHGYPGAGVTHDDLGQHAHPHHHHHHQASPPPSSAASPAQQLPTSHPGPGPHATAAATAAGGNGSVEDR
FSDDQLVSMSVRELNRHLRGFTKDEVIRLKQKRRTLKNRGYAQSCRYKRVQQKHHLENEKTQLIQQVEQL
KQEVSRLARERDAYKVKCEKLANSGFREAGSTSDSPSSPEFFL

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_010658

ORF Size: 969 bp

OTI Disclaimer: 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_010658.3, NP_034788.1

RefSeq Size: 3389 bp

RefSeq ORF: 972 bp

Locus ID: 16658

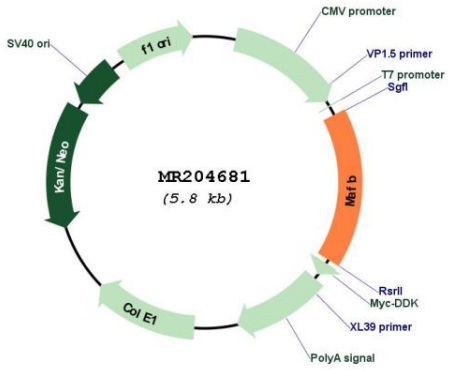
UniProt ID: P54841

Cytogenetics: 2 80.92 cM

MW: 35.8 kDa

Gene Summary: Acts as a transcriptional activator or repressor. Plays a pivotal role in regulating lineage-specific hematopoiesis by repressing ETS1-mediated transcription of erythroid-specific genes in myeloid cells. Required for monocytic, macrophage, osteoclast, podocyte and islet beta cell differentiation. Involved in renal tubule survival and F4/80 maturation. Activates the insulin and glucagon promoters. Together with PAX6, transactivates weakly the glucagon gene promoter through the G1 element. SUMO modification controls its transcriptional activity and ability to specify macrophage fate. Binds element G1 on the glucagon promoter. Involved either as an oncogene or as a tumor suppressor, depending on the cell context. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204681