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Product datasheet for MR227131

Maf (NM_001025577) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Maf (NM_001025577) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Maf
Synonyms:	2810401A20Rik; A230108G15Rik; AW047063; c-maf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR227131 representing NM_001025577
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTCAGAACTGGCAATGAACAATTCCGACCTGCCCACCAGTCCCCTGGCCATGGAATATGTTAATG
ACTTCGATCTGATGAAGTTTGAAGTGAAAAAGGAACCGGTGGAGACCGACCGCATCATCAGCCAGTGCGG
CCGTCTCATCGCCGGGGGCTCGCTGTCCTCCACCCCCATGAGCACGCCCTGCAGCTCGGTGCCCCCGTCC
CCCAGCTTCTCGGCGCCCAGCCCGGGCTCGGGCAGCGAACAGAAGGCGCACCTGGAAGACTACTACTGGA
TGACCGGCTACCCGCAGCAGCTCAACCCGGAGGCGCTGGGCTTCAGCCCGGAGGACGCGGTCGAGGCGCT
CATCAGCAACAGCCACCAGCTCCAGGGTGGCTTCGATGGCTATGCGCGGGGAGCGCAGCAGCTGGCCGCG
GCAGCGGGGGCCGGCGCCGGCGCCTCCCTGGGCGGCAGCGGCGAGGAGATGGGCCCCGCCGCCGCCGTGG
TGTCCGCCGTGATCGCCGCGGCCGCCGCGCAGAGCGGCGCGGCACCCCACTACCATCACCACCACCACCA
CGCCGCGGGGCACCACCACCATCCGACGGCCGGCGCCCCGGGAGCCGCGGGCGGCGCGTCTGCCTCTGCG
AGCGGCGCGGGTGGCGCGGGCGGCGGTGGCCCGGCCAGCGCCGGGGGCGGCGGCGGCGGAGGCGGCGGCG
GGGGCACGGCGGGGGCGGGGGGCGCCCTGCACCCGCACCATGCCGCGGGCGGCCTGCACTTCGACGACCG
CTTCTCGGACGAGCAGTTGGTGACCATGTCGGTGCGCGAGCTGAACCGGCAGCTGCGCGGGGTCAGCAAG
GAGGAGGTGATCCGACTGAAGCAGAAGAGGCGGACCCTGAAAAACCGCGGCTATGCCCAGTCCTGCCGCT
TCAAGAGGGTGCAGCAGAGACACGTCCTGGAGTCGGAGAAGAACCAGCTGCTGCAGCAGGTAGACCACCT
CAAGCAGGAGATCTCCAGGCTGGTGCGCGAAAGGGACGCCTACAAGGAGAAATACGAGAAGCTGGTGAGC
AACGGCTTCCGAGAAAACGGCTCGAGCAGCGACAACCCTTCCTCTCCCGAATTTTTCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

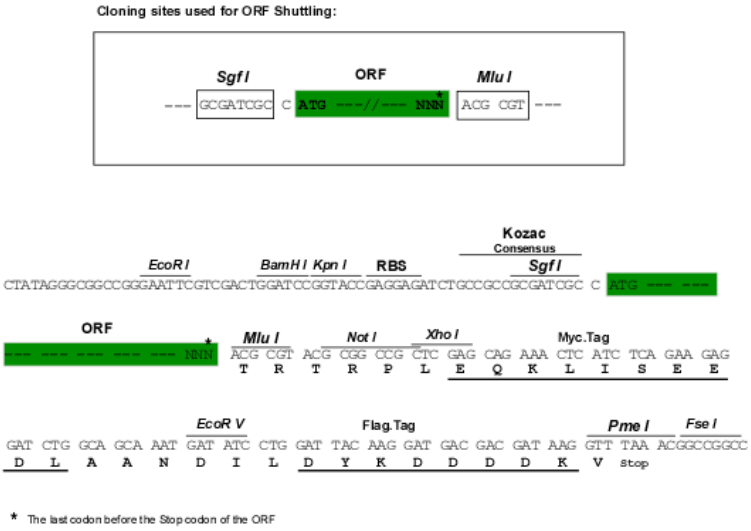
>MR227131 representing NM_001025577
Red=Cloning site Green=Tags(s)

MASELAMNNSDLPTSPLAMEYVNDFDLMKFEVKKEPVETDRIISQCGRLIAGGSLSSTPMSTPCSSVPPS
PSFSAPSPGSGSEQKAHLEDYYWMTGYPQQLNPEALGFSPEDAVEALISNSHQLQGGFDGYARGAQQLAA
AAGAGAGASLGGSGEEMGPAAAVVSAVIAAAAAQSGAAPHYHHHHHHAAGHHHHPTAGAPGAAGGASASA
SGAGGAGGGGPASAGGGGGGGGGGTAGAGGALHPHHAAGGLHFDDRFSDEQLVTMSVRELNRQLRGVSK
EEVIRLKQKRRTLKNRGYAQSCRFKRVQQRHVLESEKNQLLQQVDHLKQEISRLVRERDAYKEKYEKLVS
NGFRENGSSSDNPSSPEFFM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001025577

ORF Size: 1110 bp

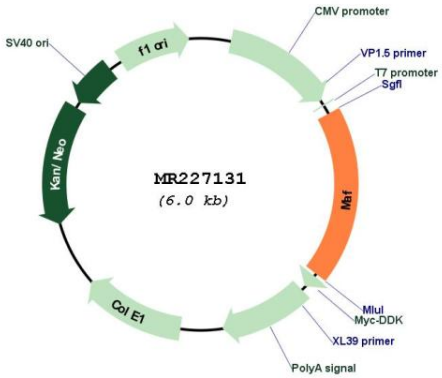
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_001025577.2, NP_001020748.2
RefSeq Size:	3642 bp
RefSeq ORF:	1113 bp
Locus ID:	17132
UniProt ID:	P54843
Cytogenetics:	8 62.61 cM
MW:	38.9 kDa
Gene Summary:	Acts as a transcriptional activator or repressor. When overexpressed, represses anti-oxidant response element (ARE)-mediated transcription. Involved either as an oncogene or as a tumor suppressor, depending on the cell context. Binds to the ARE sites of detoxifying enzyme gene promoters (By similarity). Involved in embryonic lens fiber cell development. Recruits the transcriptional coactivators CREBBP and/or EP300 to crystallin promoters leading to up-regulation of crystallin gene during lens fiber cell differentiation. Activates the expression of IL4 in T helper 2 (Th2) cells. Increases T-cell susceptibility to apoptosis by interacting with MYB and decreasing BCL2 expression. Together with PAX6, transactivates strongly the glucagon gene promoter through the G1 element. Activates transcription of the CD13 proximal promoter in endothelial cells. Represses transcription of the CD13 promoter in early stages of myelopoiesis by affecting the ETS1 and MYB cooperative interaction. Involved in the initial chondrocyte terminal differentiation and the disappearance of hypertrophic chondrocytes during endochondral bone development. Binds to the sequence 5'-[GT]G[GC]N[GT]NCTCAGNN-3' in the L7 promoter. Binds to the T-MARE (Maf response element) sites of lens-specific alpha- and beta-crystallin gene promoters. Binds element G1 on the glucagon promoter. Binds an AT-rich region adjacent to the TGC motif (atypical Maf response element) in the CD13 proximal promoter in endothelial cells. It may interact with additional basic-zipper proteins that determine a subtype of Maf-responsive element binding. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227131