

Product datasheet for **SC118696**

MAFK (NM_002360) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAFK (NM_002360) Human Untagged Clone
Tag: Tag Free
Symbol: MAFK
Synonyms: NFE2U; P18
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002360 edited
 ATGACGACTAATCCCAAACCGAATAAGGCATTAAGGTCAAGAAGGAGCGGGCGAGAAC
 GCCCGGTGCTCAGCGATGATGAGCTGGTCCATGTCGGTGCGGGAGCTGAACCAGCAC
 CTGCGGGTCTCACCAAGGAGGAGGTGACCCGCCTGAAGCAGCGTCGGCGCACACTCAAG
 AACCGCGCTACGCGCCAGCTGCCGATCAAGCGGTGACGCAGAAGGAGGAGCTGGAG
 CGGCAGCGCTGGAGCTGCAGCAGGAGGTGAGAAGCTGGCGCGTGAGAACAGCAGCATG
 CGGCTGGAGCTGGACGCCCTGCGCTCCAAGTACGAGGCGTGCAGACCTTCGCGCCACC
 GTGGCCCGGGACCTGTGGCGCCCTCCAAGGTGGCCACCACCAGCGTCATCACCATCGTC
 AAGTCCACCGAGCTCTCCTCCACCTCCGTGCCCTTCTCGGCTGCATCCTAG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002360 unedited
 NNNNGTTTAAATTTGTATACGACTCACTATAGGGCGGCCGNAATTCGCACCAGGGGG
 CACCTTGTGCTGTGCAGGTGCAGACGTCTTCTCTGACCTCAGGGAGAGTCAGAACAGGAA
 GCAGCCACTGCCGGCGCTGCTGGTCACCCACAGTGCCGGCGGTGCAGCCAGCTACG
 AGTTCCAGGGAGCTCTGTCTGGTACCCTGCCGGGTTATGACGACTAATCCCAAACCG
 AATAAGGCATTAAGGTCAAGAAGGAGGCGGGCGAGAACGCCCGGTGCTCAGCGATGAT
 GAGCTGGTCCATGTCGGTGCGGGAGCTGAACCAGCACCTGCGGGTCTCACCAAGGAG
 GAGGTGACCCGCCTGAAGCAGCGTCGGCGCACACTCAAGAACCAGCGGCTACGCGCCAGC
 TGCCGCATCAAGCGGGTACGCANAAGGAGGAGCTGGAGCGGCAGCGCTGGAGCTGCAG
 CAGGAGGTGAGAAGCTGGCGCGTGAGAACAGCAGCATGCGGCTGGAGCTGGACGCCCTG
 CGCTCCAAGTACGAGGCGCTGCAGACCTTCGCGCGCACCGTGGCCCGGGGACCTGTGGCG
 CCCTCCAAGGTGGCCACCACCAGCGTCATCACCATCGTCAAGTCCACCGAGCTCTCCTCC
 ACCTCCGTGCCCTTCTCGGCTGCATCCTANTGCCGGCNCGGGGCGGNGGTGGCCGGCGG
 CGGGCCCGGTCATGCGGGTGGGGGCACACCCCTCGTACCTGTCACTGGGATGCAGACTC
 TCGACATCCGAGTCCAAGCGCCAGGCCCTCGGGCGCAGGCAGCTCACACCAAGAAGAGA
 CTGTATTGCAAGGTGAAGAGTGGGCTCCCGTGCCCCANAGCTGCACGCCCGGTACAGA
 ACACCTACGCCGNCACCTGTTCCCGCAGGAGG



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Restriction Sites:	NotI-NotI
ACCN:	NM_002360
Insert Size:	4000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	NM_002360.2 , NP_002351.1
RefSeq Size:	1581 bp
RefSeq ORF:	471 bp
Locus ID:	7975
UniProt ID:	O60675
Cytogenetics:	7p22.3
Domains:	bZIP_Maf, BRLZ
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	The developmentally regulated expression of the globin genes depends on upstream regulatory elements termed locus control regions (LCRs). LCRs are associated with powerful enhancer activity that is mediated by the transcription factor NFE2 (nuclear factor erythroid-2). NFE2 recognition sites are also present in the gene promoters of 2 heme biosynthetic enzymes, porphobilinogen deaminase (PBGD; MIM 609806) and ferrochelatase (FECH; MIM 612386). NFE2 DNA-binding activity consists of a heterodimer containing an 18-kD Maf protein (MafF, MafG (MIM 602020), or MafK) and p45 (MIM 601490). Both subunits are members of the activator protein-1 superfamily of basic leucine zipper (bZIP) proteins (see MIM 165160). Maf homodimers suppress transcription at NFE2 sites.[supplied by OMIM, Nov 2008]