

## Product datasheet for **MC207325**

### **Mafk (NM\_010757) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mafk (NM_010757) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mafk
Synonyms:	AW061068; NF-E2; Nfe2u
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207325 representing NM_010757. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACGACTAATCCCAAGCCCAACAAGGCATTGAAGGTCAAGAAGGAGCGGGTGAGAACGCCCTGTT
CTTAGCGATGATGAGCTGGTGTCCATGTCAGTGCGGGAGCTAAACCAGCACCTGCGGGGGCTCACCAAG
GAGGAGGTCACTCGGCTGAAGCAGCGGGCGGCACACTCAAGAACAGAGGCTACGCGGCTAGCTGTCGC
ATCAAGCGTGTGACACAGAAAGAGGAGCTGGAACGGCAGCGTGTGGAGCTACAGCAGGAGGTGGAGAAG
CTGGCTCGAGAGAACAGCAGCATGCGGCTGGAGCTAGATGCCCTGCGCTCCAAGTATGAGGCCCTACAG
ACCTTCGCTCGCACCGTGGCCCGAGGGCTGTACACCCACCAAGGTGGCCACCACCAGTGCATCACC
ATCGTCAAATCTGCCGAGCTCTCTCCACCTCTGTACCCTTCTCAGCCGCTCTTAG
ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_010757
Insert Size:	471 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).



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**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\\_010757.2](#)

**RefSeq Size:** 2825 bp

**RefSeq ORF:** 471 bp

**Locus ID:** 17135

**UniProt ID:** [Q61827](#)

**Cytogenetics:** 5 78.81 cM

**MW:** 17.5 kDa

**Gene Summary:** Since they lack a putative transactivation domain, the small Mafs behave as transcriptional repressors when they dimerize among themselves. However, they seem to serve as transcriptional activators by dimerizing with other (usually larger) basic-zipper proteins, such as NFE2, NFE2L1/NRF1, NFE2L2/NRF2 and NFE2L3/NRF3, and recruiting them to specific DNA-binding sites. Small Maf proteins heterodimerize with Fos and may act as competitive repressors of the NF-E2 transcription factor.[UniProtKB/Swiss-Prot Function]