

Product datasheet for **RR208507**

Mafb (NM_019316) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mafb (NM_019316) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mafb
Synonyms:	b-maf; Krml
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR208507 representing NM_019316 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGGAGCTGAGCATGGGGCCAGAGCTGCCACCAGCCCGCTGGCCATGGAGTACGTCAACGACT
TCGACCTTCTCAAGTTCGACGTGAAGAAGGAGCCACTGGGGCGTGCGGAGCGTCCCGGCCGCCATGCAC
ACGCCTGCAGCCGGCTGGTTCGGTGTCTCCACCCGCTCAGCACACCGTGCAGCTCCGTGCCTTCTTCT
CCCAGCTTCAGTCCGACTGAACAGAAGACCCATCTCGAGGACCTGTACTGGATGGCGAGCAACTACCAGC
AGATGAATCCCGAGGCACTCAACCTGACACCCGAGGACGCGGTGGAGGCGCTCATCGGCTCGACCCAGT
GCCACAGCCGCTGCAGAGCTTCGACGGCTTCGTAAGTGCACACCACCATCACCACCACCACCACCCATC
CCGACACCAGGGTACCCAGGAGCCGGTGTGACTCACGATGAGCTGGGCCCGCACGCTCACCCGCACCATC
ACCACCATCACCAGCATCACCGCCCGCTCCAGCGCTGCCAGTCCGGCGCAACAGCTGCCCACTAGTCA
CCCGGGGCCGGGACCGCACGCGGCGAGCCGCGGCGACGGCTGCGGGCAGCAACGGTAGTGTGGAGGACCGC
TTCTCTGACGACCAGCTGGTGTCCATGTCCGTGCGTGAGCTGAACCGCCACCTGCGGGGCTTACCAAGG
ACGAGGTGATCCGCCTGAAGCAGAAGCGGGGACCCCTGAAGAACCAGGGCTACGCCAGCTCGTGCAGGTA
TAAACGCGTCCAGCAGAAACATCACCTGGAGAACGAGAAGACGCAGCTCATTAGCAGGTGGAGCAGCTT
AAGCAGGAGGTGTCCCGCTGGCCCGCAGAGAGACGCCTACAAGGTCAAGTGCAGAAACTCGCCAAC
CCGGCTCAGGGAGGCGGGCTCCACCAGCGACGCCCTCCTCCTGAGTTCTTTCTG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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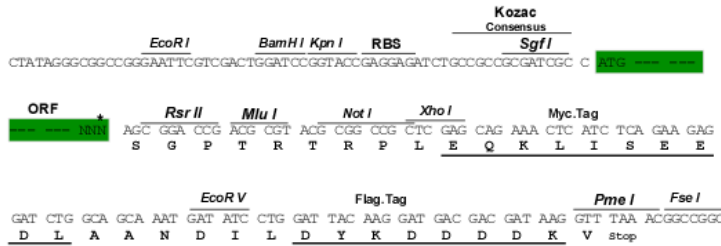
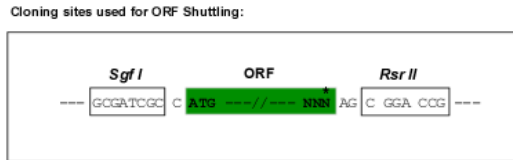
Protein Sequence: >RR208507 representing NM_019316
 Red=Cloning site Green=Tags(s)

MAAELSMGPELPTSPLAMEYVNDFDLLKFDVKKEPLGRAERPGRPCTRLQPAGSVSSTPLSTPCSSVPSS
 PSFSPTTEQKTHLEDLYWMASNYQQMNPEALNLPEDAVEALIGSHPVQPQLQSFDFGRSAHHHHHHHHHPH
 PHHGYPGAGVTHDELGPHAHPHHHHHHQASPPSSAASPAQQLPTSHPGPGPHAAAAATAAGSNGSVEDR
 FSDDQLVSMVRELNRHLRGFTKDEVIRLQKQRRTLKNRGYAQSCRYKRIVQKHHLENEKTLIQQVEQL
 KQEVSLRARERDAYKVKCEKLANSGFREAGSTSDSPSSPEFFL

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_019316

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_019316.1](#), [NP_062189.1](#)

RefSeq Size: 1923 bp

RefSeq ORF: 972 bp

Locus ID: 54264

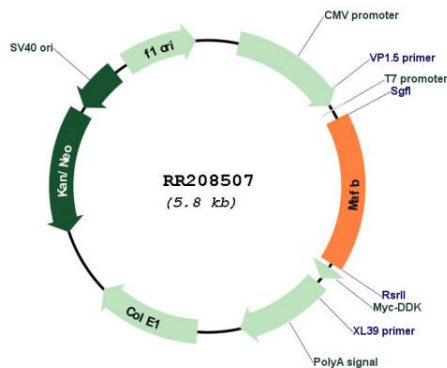
UniProt ID: [P54842](#)

Cytogenetics: 3q42

MW: 35.8 kDa

Gene Summary: nuclear bZip transcription factor; involved in the late stages of chondrocyte development [RGD, Feb 2006]

Product images:



Circular map for RR208507