

Product datasheet for **RR206657**

Mafg (NM_022386) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mafg (NM_022386) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mafg
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206657 representing NM_022386
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGACCCCAATAAAGGAAACAAGGCCTTAAAGGTGAAGCGGGAGCCAGGCGAGAATGGCACCAGCT
TGACTGATGAGGAGCTGGTGACCATGTCGGTGCAGAGTTGAACCAGCACCTGCGAGGCCTATCCAAGGA
AGAGATTATCCAGCTGAAGCAGCGCCGGCGCACACTCAAGAACCAGGCTACGCAGCCAGCTGTCGAGTG
AAGCGGGTGACACAGAAGGAGGAGCTGGAAAAGCAGAAGGCGGAGCTACAGCAGGAGGTGGAGAAGCTGG
CCTCTGAGAATGCCAGCATGAAGCTGGAGCTCGATGCGCTGCGCTCCAAGTATGAGGCCCTGCAGAACTT
TGCCAGGACCGTGGCCCGCAGCCCTGTGGCCCCGGCTCGGGTCCCTTGCTGCTGGCCTGGGGCCCTG
GTCCTGGCAAGGTGGCTGCCACCAGCGTCATCACAATAGTAAAGTCCAAGACAGATGCTCGGTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206657 representing NM_022386
Red=Cloning site Green=Tags(s)

MTTPNKGNKALKVKREPGENGSLTDEELVTMSVRELNQHLRGLSKEEIIQLKQRRRTLKNRGYAASCRV
KRVTQKEELEKQKAEQQEVEKLAENASMKLELDALRSKYEALQNFARTVARSPVAPARGPLAAGLGPL
VPGKVAATSVITIVKSKTDARS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



[View online »](#)

| | |
|-------------------------------|---|
| 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: | <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: | <u>NM_022386.2</u> , <u>NP_071781.1</u> |
| RefSeq Size: | 1638 bp |
| RefSeq ORF: | 489 bp |
| Locus ID: | 64188 |
| UniProt ID: | <u>Q76MX4</u> |
| Cytogenetics: | 10q32.3 |
| MW: | 17.9 kDa |
| Gene Summary: | increased expression of splice variant MafG-2 is detected in response to decreased extracellular pH; may play a role in signal transduction of extracellular protons [RGD, Feb 2006] |