

## Product datasheet for **MC211009**

### **Mzb1 (NM\_027222) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mzb1 (NM\_027222) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mzb1  
**Synonyms:** 2010001M09Rik; AV064572; PACAP; pERp1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC211009 representing NM\_027222  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGACTGCCTCTGCCACTGTTGCTACTGTTTCGGGTGCAGGGCTATCCTGGGGAGCGCCGGGGATAGGG  
TTTCCCTCTCGGCTTCGGCTCCACACTGGATGATGAAGAGAAGTACTCGGCTCATATGCCGGCTCACCT  
GCGCTGCGATGCCTGCCGGCTGTGGCCTCCAGATGGGGCAACGTCTGGCGAAAGCAGAGGCTAAATCT  
CACACTCCAGACGCCAGTGGATTGCAGGAGCTGAGTGAATCCACGTACACAGATGTCCTGGACCAGACCT  
GCTCTCAGAACTGGCAGTCCATGGAGTTCATGAAGTGAACCAGATGAAGCGTCTCACGGGCCCAGGACT  
TAGCAAGGGGCCAGAGCCAAGAATCAGCGTGATGATTTCTGGGGTCCCTGGCCCAATAGGCTCTCCAAG  
ACGTGTTTCCACTACCTGGGTGAGTTTGGAGAGGACCAGATCTATGAAGCCTACCGCCAAGGCCAAGCGA  
ATCTGGAGGCGTGTCTGTGGGGCACCCATGGGCCCTGCTCACAGGAGATCCTGGCCAGAGAGAAGA  
GCTTT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_027222  
**Insert Size:** 567 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).



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|-------------------------------|---|
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <u><a href="#">NM_027222.3</a></u> , <u><a href="#">NP_081498.2</a></u>   |
| <b>RefSeq Size:</b>           | 928 bp  |
| <b>RefSeq ORF:</b>            | 567 bp  |
| <b>Locus ID:</b>              | 69816   |
| <b>UniProt ID:</b>            | <u><a href="#">Q9D8I1</a></u>   |
| <b>Cytogenetics:</b>          | 18 B2   |
| <b>Gene Summary:</b>          | Associates with immunoglobulin M (IgM) heavy and light chains and promotes IgM assembly and secretion. May exert its effect by acting as a molecular chaperone or as an oxidoreductase as it displays a low level of oxidoreductase activity. Helps to diversify peripheral B-cell functions by regulating Ca(2+) stores, antibody secretion and integrin activation.[UniProtKB/Swiss-Prot Function]  |