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# Product datasheet for MC223616

## Zeb1 (NM_011546) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Zeb1 (NM_011546) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Zeb1 |
| **Synonyms:** | 3110032K11Rik; AREB6; BZP; MEB1; Nil2; TCF-8; Tcf8; Tcf18; Tw; ZEB; Zfhep; Zfhx1a; Zfx1a; Zfx1ha |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Fully Sequenced ORF:** | >MC223616 representing NM_011546<br>Red=Cloning site Blue=ORF<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGGCGGATGGCCCCAGGTGTAAGCGCAGAAAGCAGGCGAACCCGCGGCGCAATAACGTTACAAATTATA<br>ATACTGTGGTAGAAGCAAATTCAGATTCCGATGATGAAGACAAACTCCATATTGTGGAAGAAGAAAGTAT<br>TACAGATGCAGCTGACTGTGAAGGTGGCATGCCAGATGATGAACTGCCAGCAGACCAGACAGTATTACCA<br>GGAGGCAGTGACAGGGGGGGCGGTGCCAAGAACTGCTGGCAAGACAACGTGAAAGACAACGAGTGTGACT<br>CAGATGCAGAAAATGAGCAAAACCATGATCCGAATGTGGAAGAATTTCTGCAGCAACAAGACACCGCCGT<br>CATTTATCCTGAGGCGCCCGAGGAAGACCAGCGGCAGGGCACACCAGAAGCCAGCAGTCATGATGAAAAC<br>GGAACACCAGATGCATTTTCCCAGTTGCTCACCTGCCCGTATTGTGATAGAGGCTACAAGCGCTTTACCT<br>CTTTGAAAGAACACATTAAGTACCGCCATGAGAAGAACGAGGACAACTTCAGCTGCTCCCTGTGCAGTTA<br>CACCTTTGCATACAGAACCCAGCTTGAACGTCATATGACATCACATAAGTCAGGAAGAGAGCAAAGACAT<br>GTGACACAGTCTGGGGGAAACCGCAAGTTCAAGTGCACTGAATGCGGGAAGGCCTTCAAGTACAAACACC<br>ACCTGAAAGAGCACTTACGGATTCACAGTGGAGAGAAGCCATACGAATGCCCGAACTGCAAGAAACGGTT<br>TTCCCATTCTGGCTCCTATAGCTCACATATAAGCAGTAAGAAGTGTATTAGCTTGATGCCTGTGAATGGC<br>AGGCCTAGATCAGGACTCAAGACATCTCAGTGTTCCTCGCCATCTCTTTCGACATCACCAGGCAGTCCCA<br>CACGCCCACAGATACGACAGAAGATAGAGAATAAACCCCTTCAAGAACCGCTTTCTGTAAACCAAATCAA<br>AACTGAACCTGTGGATTATGAGTTCAAACCCATAGTGGTTGCTTCAGGAATCAACTGTTCAACCCCTTTA<br>CAAAATGGGGTTTTTAGCAGTGGTGGCCAATTGCAGGCAACCAGTTCTCCTCAGGGTGTGGTGCAAGCCG<br>TTGTTCTGCCAACAGTTGGTTTGGTATCTCCCATAAGTATCAACTTAAGTGACATTCAGAATGTACTTAA<br>AGTGGCTGTAGATGGTAACGTAATACGACAAGTCTTGGAGACTAATCAAGCCAGTCTTGCATCCAAAGAG<br>CAAGAAGCAGTGAGTGCTTCGCCCATCCAGCAGGGTGGCCATTCTGTCATTTCTGCCATCAGTCTTCCTT<br>TAGTTGATCAGGATGGAACAACCAAAATCATCATCAACTACAGTCTTGAGCAGCCCAGTCAACTTCAGGT |



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TGTTCCCCAGAATTTAAAGAAAGAAATCCCAGCCCCTACAAACAGCTGCAAAAGTGAGAAGTTACCAGAA
GACCTTACTGTCAAATCAGAAACGGACAAAAGCTTTGAGGGGGCCAGGGATGATAGCACTTGCCTTCTGT
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TGACAAGATATTTCAGAAGAGCAGCTCACTGTTGAGACACAAATATGAGCACACAGGTAAGAGGCCTCAC
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GGGAAAAGCCCTATCAATGTGACAAGTGTGGCAAGCGCTTCTCACACTCCGGCTCCTACTCTCAACACAT
GAATCACCGCTACTCCTACTGCAAGAGAGGAGCTGAAGACAGAGATGCTATGGAGCAGGAAGACGCTGGG
CCCGAAGTCCTGCCGGAAGTCCTGGCGACTGAGCATGTTGGTGCCCGGGCGTCTCCCTCACAGGCTGACT
CGGACGAGAGAGAAAGTCTGACAAGGGAAGAAGATGAAGACAGTGAAAAGGAGGAGGAGGAGGAAGATAA
AGAGATGGAAGAATTACAGGAAGGAAAGGAATGTGAGAACCCACAGGGGGAGGAGGAGGAGGAGGAGGAG
GAGGAAGAGGAGGAAGAAGAGGAGGAAGAGGAGGAAGTGGAAGCGGATGAAGCCGAGCATGAGGCAGCAG
CCAAGACTGATGGTACAGTGGAGGTTGGAGCTGCACAGCAGGCAGGCAGCTTAGAGCAGAAGGCCAGCGA
GAGCGAGATGGAGAGCGAAAGCGAGAGTGAGCAGCTGTCTGAAGAGAAGACAAATGAAGCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_011546

**Insert Size:** 3354 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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:** | BC139768, AAI39769 |
| **RefSeq Size:** | 4814 bp |
| **RefSeq ORF:** | 3354 bp |
| **Locus ID:** | 21417 |
| **UniProt ID:** | Q64318 |
| **Cytogenetics:** | 18 A1 |
| **Gene Summary:** | Acts as a transcriptional repressor. Binds to E-box sequences in the immunoglobulin heavy chain enhancer as well as in the regulatory regions of many other tissue-specific genes. Represses E-cadherin promoter and induces an epithelial-mesenchymal transition (EMT) by recruiting SMARCA4/BRG1. Represses BCL6 transcription in the presence of the corepressor CTBP1 (By similarity). Positively regulates neuronal differentiation. Represses RCOR1 transcription activation during neurogenesis. Represses transcription by binding to the E box (5'-CANNTG-3'). Promotes tumorigenicity by repressing stemness-inhibiting microRNAs. [UniProtKB/Swiss-Prot Function] |