

Product datasheet for **MG223095**

Zeb1 (NM_011546) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zeb1 (NM_011546) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zeb1
Synonyms:	3110032K11Rik; AREB6; BZP; MEB1; Nil2; TCF-8; Tcf8; Tcf18; Tw; ZEB; Zfhcp; Zfhx1a; Zfx1a; Zfx1ha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223095 representing NM_011546 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGATGGCCCCAGGTGTAAGCGCAGAAAAGCAGGCGAACCCGCGGCAATAACGTTACAAATTATA
ATACTGTGGTAGAAGCAAATTCAGATTCGATGATGAAGACAACTCCATATTGTGGAAGAAGAAAGTAT
TACAGATGCAGCTGACTGTGAAGGTGGCATGCCAGATGATGAACTGCCAGCAGACCAGACAGTATTACCA
GGAGGCAGTGACAGGGGGGGCGGTGCCAAGAACTGCTGGCAAGACAACGTGAAAGACAACGAGTGTGACT
CAGATGCAGAAAATGAGCAAAACCATGATCCGAATGTGGAAGAATTTCTGCAGCAACAAGACACCGCCGT
CATTTATCCTGAGGCGCCGAGGAAGACCAGCGCAGGGCACACCAGAAGCCAGCAGTCATGATGAAAAC
GGAACACCAGATGCATTTCCAGTTGCTCACCTGCCCGTATTGTGATAGAGGCTACAAGCGCTTTACCT
CTTTGAAAGAACACATTAAGTACCGCCATGAGAAGAACGAGGACAACCTCAGCTGCTCCCTGTGCAGTTA
CACCTTTGCATACAGAACCAGCTTGAACGTCATATGACATCACATAAGTCAGGAAGAGAGCAAAGACAT
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TTCCCATCTGGCTCCTATAGCTCACATATAAGCAGTAAGAAGTGTATTAGCTTGATGCCTGTGAATGGC
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TGTTCCCCAGAATTTAAAGAAAGAAATCCCAGCCCTACAACAGCTGCAAAAGTGAGAAGTTACCAGAA
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 GCCTCCACCCCTGCCAGCCACCGAGAAGCCAGAGTCTCTGCTTATCAGCTGGAACCGGAGATTTG
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 CGGACGAGAGAGAAAGTCTGACAAGGGAAGAAGATGAAGACAGTAAAAGGAGGAGGAGGAGGAGGATAA
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 CCAAGACTGATGGTACAGTGGAGGGTGGAGCTGCACAGCAGGCAGGCTTAGAGCAGAAGGCCAGCGA
 GAGCGAGATGGAGAGCGAGAGTGTGAGTGTGAGCAGTGTCTGAAGAGAAGACAAATGAAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223095 representing NM_011546
 Red=Cloning site Green=Tags(s)

MADGPRCKRRKQANPRRNNVTNYNTVVEANSDDDKLHIVEEESITDAADCEGGMPDDELPAQTVLP
 GGSDRGGAKNCWQDNVKDNECSDAENEQNHPNVEEFLQQQDTAVIYPEAPEEDQRQGTPEASSHDEN
 GTPDAFSQLLTCOPYCDRKYKRFSLKEHIKYRHEKNEDNFSCSLCSYTFAYRTQLERHMTSHKSGREQRH
 VTQSGGNRKFKCTECGKAFKYKHHLKEHLRIHSGEKPYECPNCKKRFSHSGSYSSHISKKCISLMPVNG
 RPRSGLKTQCSSPSLSTSPGSPTRPQIRQKIENKPLQEPLSVNQIKTEPVDYEFKPIVVASGINCSTPL
 QNGVFSGGQLQATSSPQGVVQAVVLPVGLVSPISINLSDIQNVLKVAVDGNVIRQVLETNQASLASKE
 QEAVSASPIQQGGHVSIAISLPLVDQDGTKIINYSLEQPSQLQVVPQNLKKEIPAPTNSCKSEKLPE
 DLTVKSETDKSFEGARDDSTCLLCEDCPGDLNALPELKHYPCEPAQPPPPAPATEKPESASSAGNGDL
 SPSQPPLKNLLSLLKAYYALNAQPSTEELSKIADSVNPLDGVKKWFEMQAGQIPGQSPDPPSPGTGSV
 NIPTKTDEQPQPADGNEPQEDSTRGQSPVKIRSSPVLVPGSAMNGSRSCSSPSPLNLCARNPQGYSCV
 AEGAQEEPPQVEPLDLSLPKQQGELLERSTVSSVYQNSVYSVQEEPLNLSCAKKEPQKQDSCVTDSEPVVNV
 VPPSANPINIAIPTVTAQLPTIVAIAIDQNSVPCLRALAANKQITILIPQVAYTYSATVSPAVQEPVVKVIQ
 PNGNQDERQDTSSEGVSTVEDQNDSDSTPPKKKTRKTENGMYACDLCDKIFQKSSLLRHKYEHTGKRPH
 ECGICRKAFAFKHKKHLLIEHMLRHSGEKPYQCDKCGKRFSHSGSYSQHMNHRYSYCKRGAEDRDAMEQEADG
 PEVLPEVLATEHVGARASPSQADSDERESLTREEDEDESEKEEEEEDEKEMEELQEGKECENPQGESESESE
 EEEEEEEEEVEADEAEHEAAAKTDGTVEGAAQQAGSLEQKASESESESESEQLSEEKTNEA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_011546

ORF Size: 3351 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

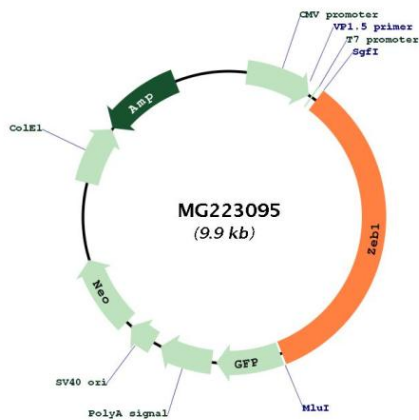
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_011546.2, NP_035676.1](#)
RefSeq Size: 5218 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]

Product images:



Circular map for MG223095