

## Product datasheet for **MR223095**

### Zeb1 (NM\_011546) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zeb1 (NM_011546) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zeb1
Synonyms:	3110032K11Rik; AREB6; BZP; MEB1; Nil2; TCF-8; Tcf8; Tcf18; Tw; ZEB; Zfhcp; Zfhx1a; Zfx1a; Zfx1ha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223095 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGGATGGCCCCAGGTGTAAGCGCAGAAAGCAGGCGAACCCGCGGCAATAACGTTACAAATTATA  
ATACTGTGGTAGAAGCAAATTCAGATTCGATGATGAAGACAACTCCATATTGTGGAAGAAGAAAGTAT  
TACAGATGCAGCTGACTGTGAAGGTGGCATGCCAGATGATGAACTGCCAGCAGACCAGACAGTATTACCA  
GGAGGCAGTGACAGGGGGGGCGGTGCCAAGAACTGCTGGCAAGACAACGTGAAAGACAACGAGTGTGACT  
CAGATGCAGAAAATGAGCAAAACCATGATCCGAATGTGGAAGAATTTCTGCAGCAACAAGACACCGCCGT  
CATTTATCCTGAGGCGCCGAGGAAGACCAGCGCAGGGCACACCAGAAGCCAGCAGTCATGATGAAAAC  
GGAACACCAGATGCATTTCCAGTTGCTCACCTGCCCGTATTGTGATAGAGGCTACAAGCGCTTTACCT  
CTTTGAAAGAACACATTAAGTACCGCCATGAGAAGAACGAGGACAACCTCAGCTGCTCCCTGTGCAGTTA  
CACCTTTGCATACAGAACCCAGCTTGAACGTCATATGACATCACATAAGTCAGGAAGAGAGCAAAGACAT  
GTGACACAGTCTGGGGGAAACCGCAAGTTCAAGTGCACCTGAATGCGGGAAGGCCTTCAAGTACAAACACC  
ACCTGAAAGAGCACTTACGGATTACAGTGGAGAGAAGCCATACGAATGCCCGAACTGCAAGAAACGGTT  
TTCCCATCTGGCTCCTATAGCTCACATATAAGCAGTAAGAAGTGTATTAGCTTGATGCCTGTGAATGGC  
AGGCCTAGATCAGGACTCAAGACATCTCAGTGTTCCTCGCCATCTCTTTCGACATCACCAGGCAGTCCCA  
CACGCCACAGATACGACAGAAGATAGAGAATAAACCCCTTCAAGAACCGCTTTCTGTAACCAAATCAA  
AACTGAACCTGTGGATTATGAGTTCAAACCCATAGTGGTTGCTTCAGGAATCAACTGTTCAACCCCTTTA  
CAAAATGGGGTTTTAGCAGTGGTGGCCAATTGCAGGCAACCAAGTTCTCCTCAGGGTGTGGTGCAAGCCG  
TTGTTCTGCCAACAGTTGGTTTGGTATCTCCATAAAGTATCAACTTAAGTACATTGACATTCAGAATGTA  
AGTGGCTGTAGATGGTAACGTAATACGACAAGTCTGGAGACTAATCAAGCCAGTCTTGATCCTCAAGAG  
CAAGAAGCAGTGAGTCTCGCCATCCAGCAGGGTGGCCATTCTGTCATTTCTGCCATCAGTCTTCCTT  
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TGTTCCCCAGAATTTAAAGAAAGAAATCCCAGCCCTACAACAGCTGCAAAAGTGAGAAGTTACCAGAA  
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 GTGAGGACTGCCAGGGGACCTCAATGCACTTCCAGAACTAAAGCACTATGACCCAGAGTGCCCTGCTCA  
 GCCTCCACCCCTGCCAGCCACCGAGAAGCCAGAGTCTCTGCTTATCAGCTGGAACCGGAGATTTG  
 TCTCCAGTCAGCCACCTTTAAAGAACCTTCTGTCACTCTTGAAGCCTACTATGCTCTGAACGCGCAGC  
 CAAGCACAAGAAGACTCTCAAAGATCGCCGATTCTGTGAACCTACCGCTGGATGGAGTAAAAAGTGGTT  
 TGAAAAGATGCAAGCTGGACAGATTCCAGGACAGTCTCCTGACCCCTTCTCCTGGAACCGGGTCAGTA  
 AACATACCTACAAAAACCGATGAGCAGCCTCAACCTGCGGATGGAAATGAGCCCCAGGAAGACAGCACAC  
 CGGACAGAGTCTGTCAAGATAAGGAGCTCTCCGGTTTTACCTGTAGGATCAGCCATGAACGGTCCAG  
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 GGGAAAAGCCCTATCAATGTGACAAGTGTGGCAAGCGCTTCTCACACTCCGGCTCCTACTCTCAACAT  
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 CGGACGAGAGAGAAAGTCTGACAAGGGAAGAAGATGAAGACAGTGAAGAGGAGGAGGAGGAGGAGATAA  
 AGAGATGGAAGAATTACAGGAAGGAAAGGAATGTGAGAACCACAGGGGGAGGAGGAGGAGGAGGAG  
 GAGGAAGAGGAGGAAGAAGGAAGAAGAGGAGGAAGTAGAGGCGGATGAAGCCGAGCATGAGGCAGCAG  
 CCAAGACTGATGGTACAGTGGAGGGTGGAGCTGCACAGCAGGCAGGCTTAGAGCAGAAGGCCAGCGA  
 GAGCGAGATGGAGAGCGAGAGTGTGAGTGTGAGCAGTGTCTGAAGAGAAGACAAATGAAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223095 protein sequence  
 Red=Cloning site Green=Tags(s)

MADGPRCKRRKQANPRRNVNTYNTVVEANSDDDKLHIVEEESITDAADCEGMPDDELPAQTVLP  
 GGSDRGGGAKNCWQDNVKNEDSDAENEQNHDPNVEEFLQQQDTAVIYPEAPEEDQRQGTPEASSHDEN  
 GTPDAFSQLLTCOPYCDRKYKRFSLKEHIKYRHEKNEDNFSCLCSYTFAYRTQLERHMTSHKSGREQRH  
 VTQSGGNRKFKCTECGKAFKYKHHLLKEHLRIHSGEKPYECPNCKKRFSHSGSYSSHISKKCISLMPVNG  
 RPRSGLKTSQCSSPSLSTSPGSPTRPQIRQKIENKPLQEPLSVNQIKTEPVDYEFKPIVVASGINCSTPL  
 QNGVFSGGQLQATSSPQGVVQAVVLPVGLVSPISINLSDIQNVLKVAVDGNVIRQVLETNQASLASKE  
 QEAVSASPIQQGGHVSIVSAISLPLVDQDGTKIINYSLEQPSQLQVVPQNLKKEIPAPTNSCKSEKLPE  
 DLTVKSETDKSFEGARDDSTCLLCEDCPGDLNALPELKHYPCEPAQPPPPAPATEKPESSASSAGNDL  
 SPSQPPLKNLLSLLKAYYALNAQPSTEELSKIADSVNPLDGVKKWFQEKMAQAGQIPGQSPDPPSPGTGSV  
 NIPTKTDEQPQPADGNEPQEDSTRGQSPVKIRSSPVLPGVSAMNGSRSCSSPSPLNLCARNPQGYSCV  
 AEGAQEEEPQVEPLDLSLPKQQGELLERSTVSSVYQNSVYSVQEEPLNLSACKKEPQKQDSCVTDSEPVVNV  
 VPPSANPINIAIPTVTAQLPTIIVAIADQNSVPCLRALAANKQITILIPQVAYTYSATVSPAVQEPVVKVIQ  
 PNGNQDERQDTSSEGVSTVEDQNDSDSTPPKKTRKTENGMYACDLCDKIFQKSSLLRHKYEHYTKRPH  
 ECGICRKAFAKHHHLLIEHMLHSGEKPYQCDKCGKRFSHSGSYSQHMNHRYSYCKRGAEDRDAMEQEDAG  
 PEVLPVPLATEHVGARASPSQADSDERESLTREEDEDESEEEEEDEKEMEELQEGKECENPQGESESESE  
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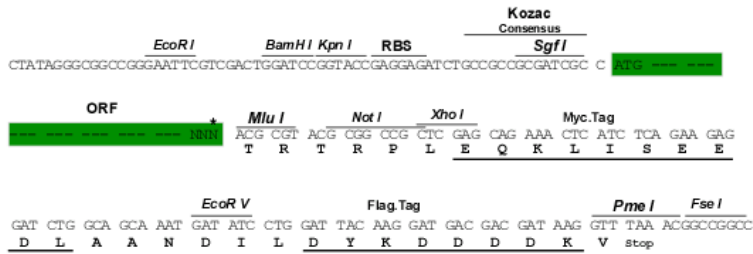
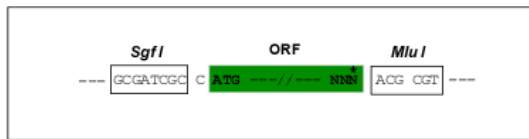
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN:

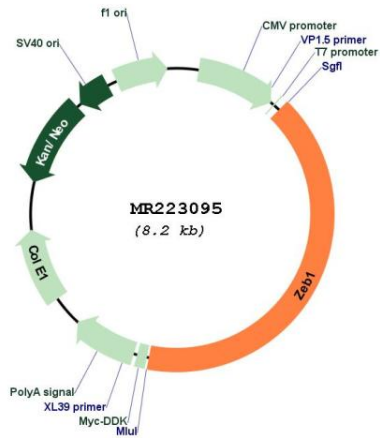
NM\_011546

ORF Size:

3354 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_011546.1</a> , <a href="#">NM_011546.2</a> , <a href="#">NM_011546.3</a> , <a href="#">NP_035676.1</a>
<b>RefSeq Size:</b>	5806 bp
<b>RefSeq ORF:</b>	3354 bp
<b>Locus ID:</b>	21417
<b>UniProt ID:</b>	<a href="#">Q64318</a>
<b>Cytogenetics:</b>	18 A1
<b>MW:</b>	122.4 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for MR223095