

## Product datasheet for **MR227610**

### **Egr2 (NM\_010118) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Egr2 (NM_010118) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Egr2
Synonyms:	Egr-2; Krox-20; Krox20; NGF1-B; Zfp-6; Zfp-25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR227610 representing NM\_010118  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGACCGCCAAGGCCGTAGACAAAATCCCAGTAACTCTCAGTGGTTTTATGCACCAGCTGCCTGACA  
 GCCTCTACCCGGTGAAGACCTCGCCGCTCGTCGGTGACCATCTCCCCAATGGTGAAGCTGGGAGGCC  
 CTTTGACCAGATGAACGGAGTGGCGGGAGATGGCATGATCAACATTGACATGACTGGAGAGAAGAGACCC  
 CTGGATCTCCCGTATCCGAGTAGCTTCGCTCCCATCTCTGCACCTAGAAACCAGACCTTCACTTACATGG  
 GCAAATTTCCATTGACCCACAGTACCCTGGTGCCAGCTGCTATCCAGAAGGTATCATCAATATTGTGAG  
 TGCGGGCATCTTGAAGGGGTCACCCCTCCAGCTTCAACCACAGCCTCTCCAGCGTCACCTCCGCTCC  
 CCCAACCCACTGGCCACGGGACCCCTGGGTGTGTGTACCATGTCCAGACTCAGCCTGAAGTGGACCACC  
 TCTACTCTCGCCACCACCTCTCTCCTTATTGGGGTGTACAGGAGATCTCTACCAGGATCTTCCAGC  
 ATTCTTATCGCCGCATCCACCCTTCCACCTCTCTGGCCTACCAGCCACCTCTTCTACCCATCC  
 CCCAAGCCAGCTATGGACCCAGGTCTATTCTATGATCCCAGACTATCCTGGATTTTTTCCATCTCCGT  
 GCCAGAGAGATCCACACGGTGTCTGGCCAGATCGAAAGCCGTTTCCCTGTCTCTGGACTCCCTGCG  
 AGTGCCCCCTCCACTCACGCCACTCTTACCATCCGTAATTTTACTCTGGGGGTCCCGGTGCTGGAGTC  
 ACGGGACCAGGAGCAAGTGGAGGTGGTGAAGGACCTCGGCTGCCTGGCAGTGGGTCTGCAGCAGTACTG  
 CCACCCCTTATAATCCGACCCACTGCCATTGCGGCCATCTGCGACCTCGAAAGTACCCTAACAGGCC  
 CAGCAAACGCCAGTGCACGAAAGGCCATCCCTGCCAGCAGAAGTTGTGATAGGAGTTCTCACGC  
 TCTGATGAGCTGACCAGGCACATCCGAATCCACACGGGCCACAAGCCCTCCAGTGTGGATCTGCATGC  
 GAAACTTCAGCCGAAGTGACCACCTTACTACTACATCCGAACCCACACGGGGAGAAGCCCTTTGCTG  
 TGAATTTGTGGCCGAAGTTTGCAGGAGTGACGAAAGGAAGGCCACACCAAGATCCACCTTCGGCAG  
 AAGGAACGGAAGAGCAGTCTCCCTCTGCACCTCCATCTGCCAGTCTTACGCTCTGGTCTGGGGCT  
 CGCAGGCCGGGGCAGCCTGTGCGGTAACAGCGCCATTGGAGGACCCTGGCCTCTGCACCTCTCGAAC  
 CAGGACACCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR227610 representing NM\_010118  
 Red=Cloning site Green=Tags(s)

MMTAKAVDKIPVTLSGFMHQLPDSLYPEVLAASSVTIFPNGELGGPFDQMNGVAGDGMINIDMTGEKRP  
 LDLPYPSSFAPISAPRNQTFYMGKFSIDPQYPGASCYPEGIINIIVSAGILQGVTPPASTTASSSVTSAS  
 PNPLATGPLGVCTMSQTQPELDHLYSPPPPPPPYSGCTGDLYQDPSAFLSPPSTTSSLAYQPPPSYPS  
 PKPAMDPLIPMIPDYPGFFPSPCQRDPHGAAGPDRKPFPCPLDSL RVPPPLTPLSTIRNFTLGGPGAGV  
 TGPASGGGEGPRLPGSGSAAVTATPYNPHHLPLRPILRPRKYPNRPSKTPVHERPYPCPAEGCDRRFSR  
 SDELTRHIRIHTGHKPFQCRICMRNFSRSDHLTTHIRHTGKPFACDYCGRKFARSDERKRHTKIHLRQ  
 KERKSSAPSAPSAQSSASGPGGSQAGGSLCGNSAIGGPLASCTSRTRTP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**ACCN:** NM\_010118

**ORF Size:** 1410 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](mailto: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.

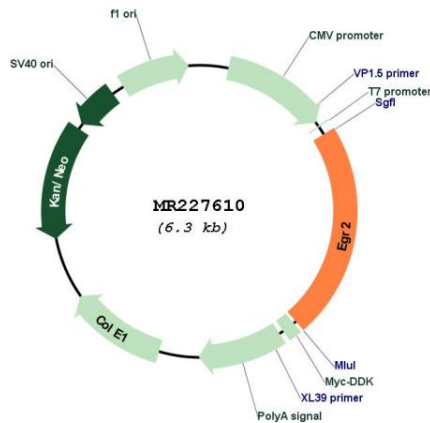
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_010118.3, NP\\_034248.2](#)  
**RefSeq Size:** 2972 bp  
**RefSeq ORF:** 1413 bp  
**Locus ID:** 13654  
**UniProt ID:** [P08152](#)  
**Cytogenetics:** 10 34.96 cM  
**MW:** 50.3 kDa

**Gene Summary:** Sequence-specific DNA-binding transcription factor. Binds to two specific DNA sites located in the promoter region of HOXA4. Binds to the promoter region of ERBB2. May play a role in the regulation of hindbrain segmentation, might act in combination with the Hox network to specify odd and even rhombomeres, and might participate in the control of the expression of some of the homeobox containing genes.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR227610