

## Product datasheet for **MC217560**

### **Egr1 (NM\_007913) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Egr1 (NM_007913) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Egr1
Synonyms:	A530045N19Rik; egr; Egr-1; ETR103; Krox-1; Krox-24; Krox24; NGF1-A; NGFI-A; NGFIA; TIS8; Zenk; Zfp-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_007913, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGCGGCCAAGGCCGAGATGCAATTGATGTCTCCGCTGCAGATCTCTGACCCGTTCCGGCTCCTTTC
CTCACTCACCCACCATGGACAACCTACCCCAAACCTGGAGGAGATGATGCTGCTGAGCAACGGGGCTCCCA
GTTCTCCGCTGCTGCCGGAACCCAGAGGGCAGCGCGTAATAGCAGCAGCAGCAGCAGCAGCGGGGG
GGTGGTGGGGGGCAGCAACAGCGGCAGCAGCGCTTCAATCCTCAAGGGGAGCCGAGCGAACAACCCCT
ATGAGCACCTGACCACAGAGTCTTTTTCTGACATCGCTCTGAATAATGAGAAGGCGATGGTGAGACGAG
TTATCCCAGCCAAACGACTCGGTTGCCCTCCCATCACCTATACTGGCCGCTTCTCCCTGGAGCCCGCACCC
AACAGTGGCAACACTTTGTGGCTGAACCCCTTTTCAGCCTAGTCAGTGGCCTCGTGAGCATGACCAATC
CTCCGACCTTTCATCCTCGGCGCTTCTCCAGCTGCTTCATCGTCTTCTCTGCCTCCCAGAGCCCGCC
CCTGAGCTGTGCCGTGCCGTCCAACGACAGCAGTCCCATCTACTCGGCTGCGCCACCTTCTACTCCC
AACACTGACATTTTTCTGAGCCCCAAAGCCAGGCCTTCTGGCTCGGCAGGCACAGCCTTGCAGTACC
CGCTCCTGCCTACCCTGCCACCAAGGTGGTTCCAGGTTCCCATGATCCCTGACTATCTGTTTCCACA
ACAACAGGGAGACTGAGCCTGGGCACCCAGACCAGAAGCCCTTCCAGGCTGGAGAACCCTACCCAG
CAGCCTTCGCTCACTCCACTATCCACTATTAAGCCTTCGCCACTCAGTCGGGCTCCCAGGACTTAAGG
CTCTTAATACCACCTACCAATCCAGCTCATCAAACCCAGCCGCATGCGCAAGTACCCCAACCGGCCAG
CAAGACACCCCCCATGAACGCCATATGCTTGCCTGTGAGTCCTGCGATCGCCGCTTTTCTCGCTCG
GATGAGCTTACCCGCCATATCCGCATCCACACAGGCCAGAAGCCCTTCCAGTGTGCAATCTGCATGCGTA
ACTTCAGTCGTAGTGACCACCTTACCACCACATCCGCACCCACACAGGCCGAGAAGCCTTTTGCCTGTGA
CATTTGTGGGAGGAAGTTTCCAGGAGTGATGAACGCAAGAGGCATACCAAAATCCATTTAAGACAGAAG
GACAAGAAAGCAGACAAAAGTGTGGTGGCTCCCGGCTGCCTTCTCACTCTTCTTACCATCCCCAG
TGGCTACCTCCTACCCATCCCTGCCACCCTCATTCCCATCCCTGTGCCACTTCTACTCCTCTCC
TGGCTCCTCCACCTACCCATCTCCTGCGCACAGTGGCTTCCCGTGCCTGTCAGTGCCACCACCTTTGCC
TCCGTTCCACCTGCTTTCCACCCAGGTCAGCAGCTTCCCGTCTGCGGGCGTCAGCAGCTCCTTCAGCA
CCTCAACTGGTCTTTCAGACATGACAGCGACCTTTTCTCCAGGACAATTGAAATTTGCTAA
    
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**Restriction Sites:** AscI-MluI

**ACCN:** NM\_007913

**Insert Size:** 1602 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).

**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:** [BC138613](#), [AAI38614](#)

RefSeq Size: 1978 bp

RefSeq ORF: 1602 bp

Locus ID: 13653

UniProt ID: [P08046](#)

Cytogenetics: 18 18.76 cM

**Gene Summary:** Transcriptional regulator (PubMed:8336701, PubMed:8703054, PubMed:15958557). Recognizes and binds to the DNA sequence 5'-GCG(T/G)GGGCG-3'(EGR-site) in the promoter region of target genes (PubMed:8703054, PubMed:15958557, PubMed:2028256, PubMed:8939742). Binds double-stranded target DNA, irrespective of the cytosine methylation status (By similarity). Regulates the transcription of numerous target genes, and thereby plays an important role in regulating the response to growth factors, DNA damage, and ischemia (PubMed:11100120, PubMed:15958557). Plays a role in the regulation of cell survival, proliferation and cell death (PubMed:15265859, PubMed:15958557). Activates expression of p53/TP53 and TGFB1, and thereby helps prevent tumor formation (PubMed:15958557). Required for normal progress through mitosis and normal proliferation of hepatocytes after partial hepatectomy (PubMed:15265859). Mediates responses to ischemia and hypoxia; regulates the expression of proteins such as IL1B and CXCL2 that are involved in inflammatory processes and development of tissue damage after ischemia (PubMed:11100120). Regulates biosynthesis of luteinizing hormone (LHB) in the pituitary (PubMed:8703054). Regulates the amplitude of the expression rhythms of clock genes: ARNTL/BMAL1, PER2 and NR1D1 in the liver via the activation of PER1 (clock repressor) transcription (PubMed:26471974). Regulates the rhythmic expression of core-clock gene ARNTL/BMAL1 in the suprachiasmatic nucleus (SCN) (PubMed:29138967).[UniProtKB/Swiss-Prot Function]