

## Product datasheet for **RR206025**

### **Egr2 (NM\_053633) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Egr2 (NM_053633) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Egr2
Synonyms:	Krox20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR206025 representing NM\_053633  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGACCGCCAAGGCCGTAGACAAAATCCCAGTAACTCTCAGTGGTTTTATGCACCAGCTGCCTGACA  
 GCCTCTACCCGGTGAAGACCTCGCCGCCCGTCGGTGACCATCTTCCCCAATGGTGAAGCTGGGAGGCC  
 CTTTGATCAGATGAACGGAGTGGCTGGAGATGGCATGATCAACATTGACATGACCGGAGAGAAGAGGCC  
 TTGGATCTCCCATATCCGAGTAGCTTCGCTCCCATCTCTGCGCCTAGAAACCAGACCTTCACTTACATGG  
 GCAAATTTCTCATTGACCCTCAGTACCCTGGTGCCAGCTGCTACCCAGAAGGCATCATCAATATTGTGAG  
 TGCGGGCATCTTGAAGGGGTCACCCCTCCAGCTTCAACCACAGCCTCTCCAGCGTCACCTCTGCCTCC  
 CCCAACCCACTGGCCACGGGACCCCTGGGTGTGTGTACCATGTCCAGACTCAGCCTGAAGTGGACCACC  
 TCTACTCTCCACCACCCTCCTCCTTATTGGGGTGTACAGGAGACCTCTACCAGGATCCTTCAGC  
 ATTCTTATCGCCGCCACCACCTTCCACCTCCTCTCTGGCCTACCAGCCACCTCCTTCTACCCATCC  
 CCCAAGCCGGCTATGGACCCAGGTCTATTCTATGATCCAGACTATCCTGGATTTTTTCCATCTCCGT  
 GCCAGAGAGATCCACATGGCGCGGCTGGCCCTGATCGAAAGCCGTTCCCTGCCCCTCTGGACTCCCTGCG  
 GGTCCCCCTCCGCTCACGCCACTCTCCACCATCCGTAATTTTACTCTTGGGGGGCCAGTCTGGCGTC  
 ACGGGACCAGGGCAAGTGGAGGCGGTGAGGGTCCCCGACTGCCTGGCAGTGGGTCTGCAGCAGTACTG  
 CTACCCCTACAATCCGACCACCTGCCTTTAAGGCCATCCTGAGACCTCGAAAGTACCCCAACAGGCC  
 CAGCAAGACGCCAGTGCACGAAAGGCCGTACCCCTGCCAGCAGAGGGTTGCGACAGGAGTTCTCACGC  
 TCTGATGAGCTGACCAGGCACATCCGAATCCACACCGGTACAAGCCCTCCAGTGTCCGATCTGCATGC  
 GAAATTCAGCCGAAGTACCACCTCACACTCACATCCGACCCACACCGGGGAGAAGCCCTTTGCCTG  
 TGAATTTGTGGCCGTAAGTTTGCCTGGAGTGACGAAAGGAAGGCCACACCAAGATCCACCTTCGCCAG  
 AAGGAGAGGAAGAGCAGTCCCCCTCGTCATCTGCATCCGCCAGTCTTACGCTCTGGTCTGGGGCT  
 CGCAGGCCGGGGCAGCCTGTGCGGTAACAGCGCCATTGGAGGACCCTGGCCTCTGCACCTCTCGGAC  
 CAGGACCCCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206025 representing NM\_053633  
 Red=Cloning site Green=Tags(s)

MMTAKAVDKIPVTLSGFMHQLPDSLYPEDELAAPSVTIFPNGELGGPFDQMNGVAGDGMINIDMTGEKRP  
 LDLPYPSSFAPISAPRNQFTFTYMGKFSIDPQYPGASCYPEGIINIVSAGILQGVTPPASTTASSSVTSAS  
 PNPLATGPLGVCTMSQTQPELDHLYSPPPPPPPYSGCTGDLYQDPSAFLSPPPTTSSSLAYQPPPSYPS  
 PKPAMDPLIPMIPDYPGFFPSPCQRDPHGAAGPDRKPFPCPLDSL RVPPPLTPLSTIRNF TLGGPSAGV  
 TGPASGGGEGPRLPGSGSAAVTATPYNPHHLPLRPILRPRKYPNRPSKTPVHERPYPCPAEGCDRRFSR  
 SDELTRHIRIHTGHKPFQCRICMRNFSRSDHLTTHIRHTGKPFACDYCGRKFARSDEKRHTKIHLRQ  
 KERKSSAPSSSASAQSSASGPGGSQAGGSLCGNSAIGGPLASCTSRTRTP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2369\\_e11.zip](https://cdn.origene.com/chromatograms/ja2369_e11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_053633

**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.

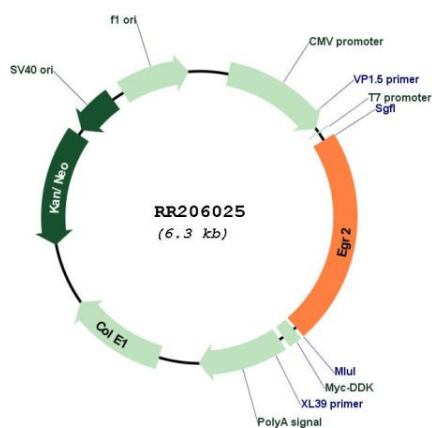
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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\\_053633.1](#), [NP\\_446085.1](#)  
**RefSeq Size:** 2976 bp  
**RefSeq ORF:** 1413 bp  
**Locus ID:** 114090  
**UniProt ID:** [P51774](#)  
**Cytogenetics:** 20p11  
**MW:** 50.3 kDa  
**Gene Summary:** binds DNA; may play a role in learning and long term potentiation [RGD, Feb 2006]

**Product images:**


Circular map for RR206025