

Product datasheet for **RR205200**

Egr1 (NM_012551) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Egr1 (NM_012551) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Egr1
Synonyms:	Krox-24; Ngf1; Ngfi; NGFI-A; zif-268
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR205200 representing NM_012551
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
 GCC

ATGGACAACACCCAACTGGAGGAGATGATGCTGCTGAGCAACGGGGCTCCCCAGTTCCTCGGTGCTG
 CCGGAACCCAGAGGGCAGCGGGCAATAACAGCAGCAGCAGCAGCAGCAGCAGCAGCGGGGGCGGTGG
 TGGGGCGGCAGCAACAGCGGCAGCAGCGCTTTCAATCCTCAAGGGGAGCCGAGCGAACAACCTACGAG
 CACCTGACCACAGAGTCTTTTCTGACATCGCTCTGAATAACGAGAAGGCGCTGGTGGAGACAAGTTATC
 CCAGCCAACTACCCGGTTCCTCCATCACCTATACTGGCCGCTTTCCTGGAGCCTGCACCCAAACAG
 TGGCAACACTTTGTGGCCTGAACCCCTTTTCAGCCTAGTCAGTGGCCTTGTGAGCATGACCAACCTCCA
 ACCTCTTCATCCTCAGCGCTTTCAGCTGCTTCATCGTCTTCTCCTGCCCTCCAGAGCCACCCCTGA
 GCTGTGCCGTGCCGTCCAACGACAGCAGTCCCATTACTCAGCTGCACCCACCTTCTACTCCCAACAC
 TGACATTTTTCTGAGCCCAAAGCCAGGCCTTCTCGCTCTGCAGGCACAGCCTTGACAGTACCCGCT
 CCTGCCTACCCTGCCACCAAGGGTGGTTTTCCAGGTTCCCATGATCCCTGACTATCTGTTCCACAACAAC
 AGGGAGACCTGAGCCTGGGCACCCAGACCAGAAGCCCTTCCAGGGTCTGGAGAACCGTACCCAGAGCC
 TTCGCTCACTCCACTATCCACTATCAAAGCCTTCGCCACTCAGTCGGGCTCCCAGGACTTAAAGGCTCTT
 AATAACACCTACCACTCCAACCTCATCAAACCCAGCCGATGCGCAAGTACCCCAACCGGCCAGCAAGA
 CACCCCCCATGAACGCCGATGCTTGGCCTGTTGAGTCTGCGATCGCCGCTTTTCTCGCTCGGATGA
 GCTTACACGCCACATCCGCATCCATACAGGCCAGAAGCCCTTCCAGTGTGCAATCTGCATGCGTAATTT
 AGTCGTAGTGACCACCTTACCACCCACATCCGCACCCACACAGGGCAGAGAAGCCTTTTGCCTGTGACATTT
 GTGGGAGAAAGTTTCCAGGAGTGAACGCAAGAGGCATACCAAATCCACTTAAAGCAGAAGGACAA
 GAAAGCAGACAAAAGTGTGCGTGGCTCCTCAGCTGCCTCTTCCCTCTTCTCCTACCCATCCCGAGTGGCT
 ACCTCCTACCCATCCCCGCCACCACTCATTTCCATCCCAGTCCACCTTACTCCTCTCCGGCT
 CCTTACTACCTACCGTCTCCTGCACACAGTGGTCCCATCGCCCTCGGTGGCCACCACCTATGCCTCCGT
 CCCACCTGCTTCCCTGCCAGGTGACACCTTCCAGTCTGCAGGGGTCAGCAACTCCTTACGACCTCA
 ACGGGTCTTTCAGACATGACAGCAACCTTTCTCCTAGGACAATTGAAATTTGC

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RR205200 representing NM_012551
 Red=Cloning site Green=Tags(s)

MDNYPKLEEMMLLSNGAPQFLGAAGTPEGSSGNNSSSSSSSSSGGGGGGSSNSGSSAFNPQGEPEQPYE
 HLTTFESFDIALNNEKALVETSYPSTTRLPPIITYTGRFSLEPAPNSGNTLWPEPLFSLVSLVSMNPP
 TSSSSAPSPAASSSSASQSPPLSCAVPSNDSSPIYSAAPTFTPTNDIFPEPQSQAFFGSAGTALQYPP
 PAYPATKGGFQVPMIPDYLFPQQQDLSLGTDPQKPFQLENRTQQPSLTPLSTIKAFATQSGSQDLKAL
 NNTYQSQLIKPSRMRKYPNRPSTPPHERPYACPVESCDRRFSRSEDELTRHIRIHTGQKPFQCRICMRNF
 SRSDHLTTHIRHTGKPFACDICGRKFARSDERKRHTKIHLRQKDKKADKSVVASSAASSLSSYPSPVA
 TSYPSPATTSFSPVPTSYSSPGSSTYSPAHSGFSPSPVATTYASVPPAFPAQVSTFQSAGVSNFSSTS
 TGLSDMTATFSPRTIEIC

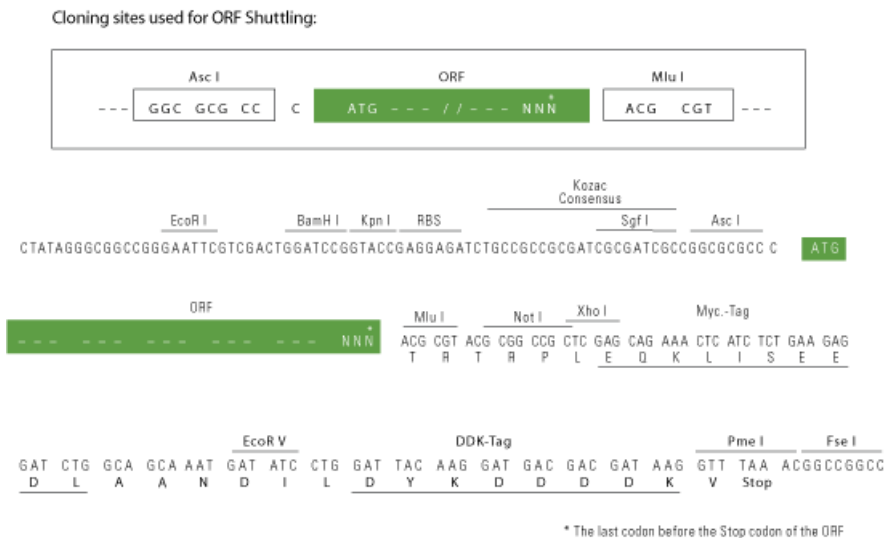
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2304_h01.zip

Restriction Sites:

AscI-MluI

Cloning Scheme:


ACCN: NM_012551

ORF Size: 1524 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](#)

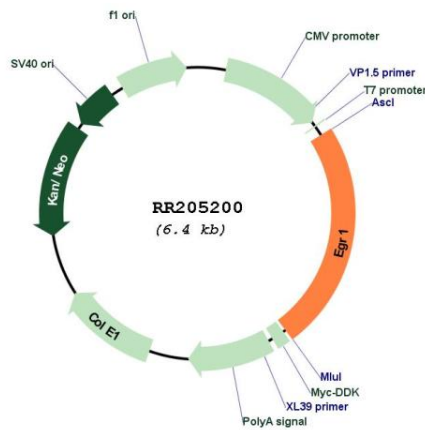
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_012551.2, NP_036683.1</u>
RefSeq Size:	1527 bp
RefSeq ORF:	1527 bp
Locus ID:	24330
UniProt ID:	<u>P08154</u>
Cytogenetics:	18p12
MW:	53.9 kDa
Gene Summary:	activates transcription of the LH receptor gene; may be involved in synaptic plasticity during REM sleep [RGD, Feb 2006]

Product images:



Circular map for RR205200