

## Product datasheet for **RG209956**

### **EGR1 (NM\_001964) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EGR1 (NM_001964) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EGR1
Synonyms:	AT225; GOS30; KROX-24; NGFI-A; TIS8; ZIF-268; ZNF225
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209956 representing NM\_001964  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGCGGCCAAGGCCGAGATGCAGCTGATGTCCCCGCTGCAGATCTCTGACCCGTTCCGATCCTTTCT  
 CCACTCGCCACCATGGACAACCTACCCTAAGCTGGAGGAGATGATGCTGCTGAGCAACGGGGCTCCCCA  
 GTTCTCGGGCGCCGCGGGGCCAGAGGGCAGCGGCAGCAACAGCAGCAGCAGCAGCAGCGGGGCGGT  
 GGAGGCGCGGGGGCGGAGCAACAGCAGCAGCAGCAGCAGCACCTTCAACCCTCAGGCGGACACGGGCG  
 AGCAGCCCTACGAGCACCTGACCGCAGAGTCTTTTCTGACATCTCTCTGAACAACGAGAAGGTGCTGGT  
 GGAGACCAGTTACCCAGCCAAACCACTGACTGCCCCCATCACCTATACTGGCCGCTTTTCCCTGGAG  
 CCTGCACCAACAGTGGCAACACCTTGTGGCCGAGCCCTCTTACAGTTGGTCACTGGCCTAGTGAGCA  
 TGACCAACCCACCGCCCTCCTCGTCTCAGCACCATCTCCAGCGGCTCCTCCGCTCCGCTCCAGAG  
 CCCACCCCTGAGCTGCGCAGTGCATCCAACGACAGCAGTCCATTTACTCAGCGCACCCACCTTCCCC  
 ACGCCGAACACTGACATTTTCCCTGAGCCACAAAGCCAGGCTTCCCGGGCTCGGCAGGGACAGCGCTCC  
 AGTACCCGCTCCTGCCTACCCTGCCGCAAGGGTGGCTTCCAGGTTCCCATGATCCCCGACTACCTGTT  
 TCCACAGCAGCAGGGGATCTGGGCTGGGCACCCAGACCAGAAGCCCTTCCAGGGCTGGAGAGCCGC  
 ACCCAGCAGCCTTCGCTAACCCCTCTGTCTACTATTAAGGCTTTGCCACTCAGTCGGGCTCCCAGGACC  
 TGAAGGCCTCAATACCAGTACCAGTCCAGCTCATCAAACCCAGCCGATGCGCAAGTACCCCAACCG  
 GCCAGCAAGACGCCCCACGAACGCCCTTACGCTTGGCCAGTGGAGTCTGTGATCGCCGCTTCTCC  
 CGCTCCGACGAGCTCACCGCCACATCCGATCCACAGGCCAGAAGCCCTTCCAGTCCGCTATCTGCA  
 TGCCGAACCTTACGCCGACGACACCTCACACCCACATCCGCACCCACACAGGCCGAAAACCCCTCGC  
 CTGCGACATCTGTGGAAGAAAGTTTCCAGGAGCGATGAACGCAAGAGGCATACCAAGATCCACTTGGCG  
 CAGAAGGACAAGAAAGCAGACAAAAGTGTGTGGCCTTTCGGCCACCTCCTCTCTCTTCTTCCACCGT  
 CCCCAGTGTACCTCTTACCCTCCCCGGTTACTACCTCTTATCCATCCCCGGCCACCACCTCATAACC  
 ATCCCCTGTGCCACCTCCTTCTCTCTCCCGGCTCCTCGACCTACCCATCCCCTGTGCACAGTGGCTTC  
 CCCTCCCGTGGTGGCCACCACGTACTCTGTTCCTTCCCGCTTTCGGGCCAGGTGAGCAGCTTCC  
 CTCTCAGCTGTACCAACTCCTCAGCGCTCCACAGGCTTTCGGACATGACAGCAACCTTTTCTCC  
 CAGGACAATTGAAATTTGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG209956 representing NM\_001964  
 Red=Cloning site Green=Tags(s)

MAAAKAEMQLMSPLQISDPFGSFPHSPTMDNYPKLEEMMLLSNGAPQFLGAAGAPEGSGSNSSSSSSGGG  
 GGGGGSNSSSSSTFNPQADTGEQPYEHLTAESFPDISLNNEKVLVETSYPSTTRLPPIYTYTGRFSLE  
 PAPANSGNTLWPEPLFSLVSLVSMNTNPPASSSSAPSPAASSASASQSPPLSCAVPSNDSSPIYSAAPTFP  
 TPNTDIFPEPQSQAFFGSAGTALQYPPAYPAKGGFQVPMIPDYLPQQQDLGLGTPDQKPFQGLER  
 TQQPSLTPLSTIKAFATQSGSQDLKALNTSYQSQLIKPSRMRKYPNRPSTPPHERPYACPVESCDRRFS  
 RSDDELTRHIRIHTGQKPFQCRICMRNFSRSDHLLTTHIRHTGKPFACDICGRKFARSDERKRHTKIHLR  
 QKDKKADKSVVASSATSSLSSYSPVATSYPSPVTTSYSPATTSYSPVPTSFSSPGSSTYSPVHSGF  
 PPSVATTYSSVPPAFPAQVSSFPSSAVTNSFSASTGLSDMTATFSPRTIEIC

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001964

**ORF Size:** 1629 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.

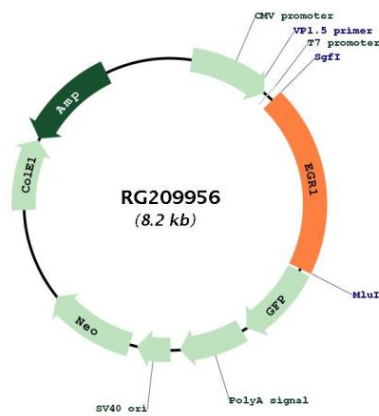
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**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\\_001964.3](#)  
**RefSeq Size:** 3136 bp  
**RefSeq ORF:** 1632 bp  
**Locus ID:** 1958  
**UniProt ID:** [P18146](#)  
**Cytogenetics:** 5q31.2  
**Domains:** zf-C2H2  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Prion diseases  
**Gene Summary:** The protein encoded by this gene belongs to the EGR family of C2H2-type zinc-finger proteins. It is a nuclear protein and functions as a transcriptional regulator. The products of target genes it activates are required for differentiation and mitogenesis. Studies suggest this is a cancer suppressor gene. [provided by RefSeq, Dec 2014]

**Product images:**



Circular map for RG209956