

## Product datasheet for **SC303482**

### EGR3 (NM\_004430) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** EGR3 (NM\_004430) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** EGR3  
**Synonyms:** EGR-3; PILOT  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_004430 edited  
GGAGTGCATGACCGCAAACCTCGCCGAGAAGCTGCCGGTGACCATGAGCAGTTTGCTAA  
ACCAACTGCCTGACAATCTGTACCCCGAGGAGATCCCCAGCGCGCTCAACCTCTTCTCCG  
GCAGCAGCGACTCGGTAGTCCATTACAATCAGATGGCTACAGAGAATGTAATGGACATCG  
GTCTGACCAACGAGAAGCCCAACCCGGAACCTCTTACTCCGGCTCCTTCCAGCCAGCCC  
CCGGCAACAAGACCGTGACCTACTTGGGAAAGTTCGCCTTCGACTCCCCTTCCAACCTGGT  
GCCAGGACAACATCATTAGCCTCATGAGCGCCGGCATCTTGGGGGTGCCCCCGGCTTCAG  
GGGCGCTCAGCACGCAGACGTCCACGGCCAGCATGGTGCAGCCACCGCAGGGTGACGTGG  
AGGCCATGTATCCCGCGTACCCCTACTCCAACCTGCGGCGACCTCTACTCAGAGCCCG  
TGTCTTCCACGACCCCAAGGCAATCCCGGGCTCGCCTATTCCCCCAGGATTACCAAT  
CGGCCAAGCCGGGTTGGACAGCAATCTTCCCATGATTCCTGACTACAACCTCTACC  
ACCACCCCAACGACATGGGCTCCATTCCGGAGCAAGCCCTTCCAGGGCATGGACCCCA  
TCCGGGTCAACCCGCCCCCTATTACCCCTCTGGAGACCATCAAGGCATTCAAAGACAAGC  
AGATCCACCCGGGCTTTGGCAGCCTGCCCCAGCCGCGCTCACCTCAAGCCCATCCGGC  
CCCGAAGTACCCCAACCCGGCTAGCAAGACACCGCTCCACGAACGGCCCCACGCGTGCC  
CGGCCGAGGGTGCAGCCCGTTTCAGCCGTTTCGGACGAGTGACCCGGCACCTGCGCA  
TCCACACGGGCCACAAGCCCTTCCAGTGCCGGATCTGCATGCGGAGCTTCAGCCGACGC  
ACCACCTCACCCTCACATCCGCACTCATAACGGGCGAGAAGCCCTTTGCCTGCGAGTTCT  
GCGGGCGCAAGTTTGGCGCAGCGACGAGCGCAAGCGCCACGCAAGATCCACCTCAAGC  
AAAAGGAGAAGAAGGCGGAGAAGGGCGGTGACCCCTCTGCATCCTCGGGCGCCCCCGTGT  
CGCTGGCCCCCGTGGTACCACCTGCGCCTGAGGATCGGGCCCCCAGATCCCCACTTTTC  
CCCT



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004430 unedited  
 TTGTAATACGAACTCACTATAGGGCGGCCGCGATTCAAATCTGGTACCGAGCTCGGATCC  
 ACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTGGAGTGTATGACCGGCAAACCTC  
 GCCGAGAAGCTGCCGGTGACCATGAGCAGTTTGTAAACCAACTGCCTGACAATCTGTAC  
 CCCGAGGAGATCCCAGCGCGCTCAACCTCTTCTCCGGCAGCAGCGACTCGGTAGTCCAT  
 TACAATCAGATGGCTACAGAGAATGTAATGGACATCGGTCTGACCAACGAGAAGCCCAAC  
 CCGGAATCTCTTACTCCGGCTCCTTCCAGCCAGCCCCGGCAACAAGACCGTGACCTAC  
 TTGGGAAAGTTTCGCTTCGACTCCCTTCCAACCTGGTGCCAGGACAACATCATTAGCCTC  
 ATGAGCGCCGGCATCTTGGGGTGCCTCCGGCTTCCAGGGCGCTCAGCACGCAGACGTCC  
 ACGGCCAGCATGGTGCAGCCACCGCANGGTGACGTGGAGGCCATGTATCCCGCGTACCC  
 CCTACTCCAAACTGCGCGACTCTACTCAGAGCCCGTGTCTTCCACGACCCCCAGGGC  
 AATCCCGGGCTCGCTATTCCCCCAGATTACCAATCGGCCAAGCCCGGTTTGACAGC  
 AATCTCNTCCCCATGATTCTGACTTACAACCTCTACCACCACCCAACGACATGGGCTC  
 CATTTCCGGAGCACAAGCCCTTCCAGGCATGGGACCCCATCCCGGGTCAACCCCGCC  
 CCCTATTACCCCTCTTAAAACCATTTAAGCATTTCAAAGACCAGCAGATCCACCCGG  
 GCTTTTAAAAGCCCTGGCCCAAGCCGGCGTTTAACTTAAAGCCCATTCGGGCCCGGAA  
 GTACCCCAACCGGCCTATCAAAGAAACCGTTCCAGAGACGGCCCCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004430 unedited  
 CATTGGNGATGGCACTTCCAGNCCAGNANGAGCACTGGGGNAGGGTCACAGGGATGCCA  
 CCCGGGATCTGTTAGGAAACAGCTATGACCGCGCCGCAATCTAGATGCATGCTCGAGC  
 GGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGGGGAAAAGTGGGGATCTGGG  
 GGCCCGATCCTCAGGCGCAGGTGGTACCACGGGGGCCAGCGACACGGGGGGCGCCGAGG  
 ATGCAGAGGGTGACCGCCTTCTCCGCCTTCTCTCTTTGCTTGAGGTGGATCTTGG  
 CGTGGCGCTTGCCTCGTGCCTCGCGCAAACTTGCGCCCGCAGAACTCGCAGGCAAAGG  
 GCTTCTCGCCGTATGAGTGCAGATGTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
 GCATGCAGATCCGGCACTGGAAGGGCTTGTGGCCCGTGTGGATGCGCAGGTGCCGGGTCA  
 GCTCGTCCGAACGGCTGAAACGGCGGTGCGAGCCCTCGGCCGGGCACGCGTGGGGCCGT  
 CGTGGAGCGGTGCTTGTAGCCGGTGGGGTACTTGCGGGGCCGGATGGGCTTGAAGG  
 TGAGCGGGCGCTGGGGCAGGCTGCCAAAGCCGGGTGGATCTGCTTGTCTTTGAATGCCT  
 TGATGGTCTCCAGAGGGTAATAGGGGGCGGTTGACCCGGATGGNGTCCATGCCCTGGA  
 AGGGCTTGTGCTCCGGAATGGAGCCCATGTCGTTGGGGTGGTGGTGGTGGTGGTGGTGG  
 GAATCATGGGGAAGAGATTGCTGTCCAACGCCGCTTGGCCGATTGGTAATCTGGNGG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_004430

**Insert Size:**

1200 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](#)

<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004430.2</a> , <a href="#">NP_004421.2</a>
<b>RefSeq Size:</b>	4342 bp
<b>RefSeq ORF:</b>	1164 bp
<b>Locus ID:</b>	1960
<b>UniProt ID:</b>	<a href="#">Q06889</a>
<b>Cytogenetics:</b>	8p21.3
<b>Gene Summary:</b>	<p>This gene encodes a transcriptional regulator that belongs to the EGR family of C2H2-type zinc-finger proteins. It is an immediate-early growth response gene which is induced by mitogenic stimulation. The protein encoded by this gene participates in the transcriptional regulation of genes in controlling biological rhythm. It may also play a role in a wide variety of processes including muscle development, lymphocyte development, endothelial cell growth and migration, and neuronal development. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Dec 2010]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>