OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC211140

EGR3 (NM_004430) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGR3 (NM_004430) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EGR3
Synonyms:	EGR-3; PILOT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC211140 representing NM_004430
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCGGCAAACTCGCCGAGAAGCTGCCGGTGACCATGAGCAGTTTGCTAAACCAACTGCCTGACAATC
TGTACCCCGAGGAGATCCCCAGCGCGCTCAACCTCTTCTCCGGCAGCAGCGACTCGGTAGTCCATTACAA
TCAGATGGCTACAGAGAATGTAATGGACATCGGTCTGACCAACGAGAAGCCCAACCCGGAACTCTCTTAC
TCCGGCTCCTTCCAGCCAGCCCCCGGCAACAAGACCGTGACCTACTTGGGAAAGTTCGCCTTCGACTCCC
CTTCCAACTGGTGCCAGGACAACATCATTAGCCTCATGAGCGCCGGCATCTTGGGGGTGCCCCCGGCTTC
AGGGGCGCTCAGCACGCAGACGTCCACGGCCAGCATGGTGCAGCCACCGCAGGGTGACGTGGAGGCCATG
TATCCCGCGCTACCCCCCTACTCCAACTGCGGCGACCTCTACTCAGAGCCCGTGTCTTTCCACGACCCCC
AGGGCAATCCCGGGCTCGCCTATTCCCCCCAGGATTACCAATCGGCCAAGCCGGCGTTGGACAGCAATCT
CTTCCCCATGATTCCTGACTACAACCTCTACCACCACCCCAACGACATGGGCTCCATTCCGGAGCACAAG
CCCTTCCAGGGCATGGACCCCATCCGGGTCAACCCGCCCCCTATTACCCCTCTGGAGACCATCAAGGCAT
TCAAAGACAAGCAGATCCACCCGGGCTTTGGCAGCCTGCCCCAGCCGCCGCTCACCCTCAAGCCCATCCG
GCCCCGCAAGTACCCCAACCGGCCTAGCAAGACACCGCTCCACGAACGGCCCCACGCGTGCCCGGCCGAG
GGCTGCGACCGCCGTTTCAGCCGTTCGGACGAGCTGACCCGGCACCTGCGCATCCACACGGGCCACAAGC
CCTTCCAGTGCCGGATCTGCATGCGGAGCTTCAGCCGCAGCGACCACCTCACCACTCACATCCGCACTCA
TACGGGCGAGAAGCCCTTTGCCTGCGAGTTCTGCGGGCGCAAGTTTGCGCGCAGCGACGAGCGCAAGCGC
CACGCCAAGATCCACCTCAAGCAAAAGGAGAAGAAGGCGGAGAAGGGCGGTGCACCCTCTGCATCCTCGG
CGCCCCCCGTGTCGCTGGCCCCCGTGGTCACCACCTGCGCC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC211140 representing NM_004430
Red=Cloning site Green=Tags(s)

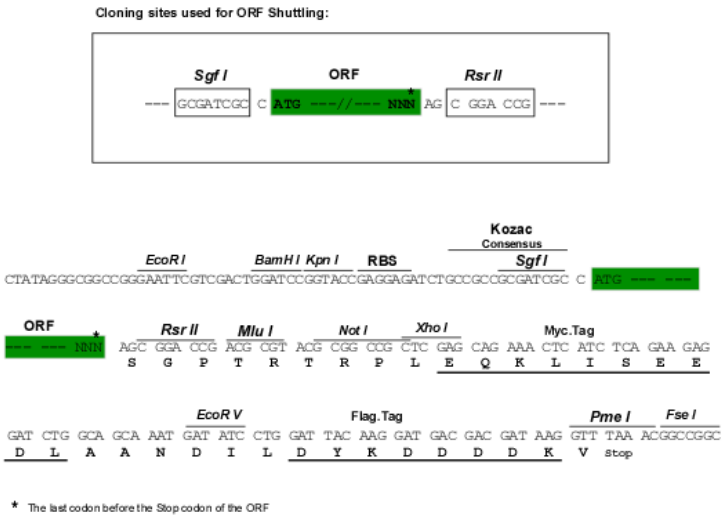
MTGKLAEKLPVTMSSLLNQLPDNLYPEEIPSALNLFSGSSDSVVHYNQMATENVMDIGLTNEKPNPELSY
SGSFQPAPGNKTVTYLGKFAFDSPSNWCQDNIISLMSAGILGVPPASGALSTQTSTASMVQPPQGDVEAM
YPALPPYSNCGDLYSEPVSFHDPQGNPGLAYSPQDYQSAKPALDSNLFPMIPDYNLYHHPNDMGSIPEHK
PFQGMDPIRVNPPPITPLETIKAFKDKQIHPGFGSLPQPPLTLKPIRPRKYPNRPSKTPLHERPHACPAE
GCDRRFSRSDELTRHLRIHTGHKPFQCRICMRSFSRSDHLTTHIRTHTGEKPFACEFCGRKFARSDERKR
HAKIHLKQKEKKAEKGGAPSASSAPPVSLAPVVTTCA

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3816_b05.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_004430

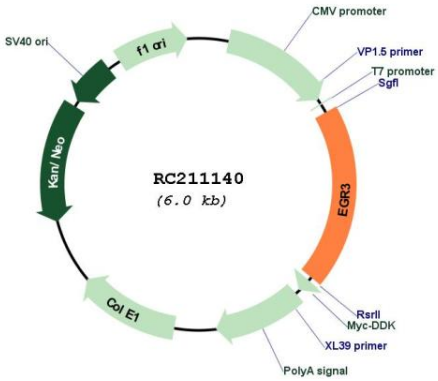
ORF Size: 1161 bp

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.

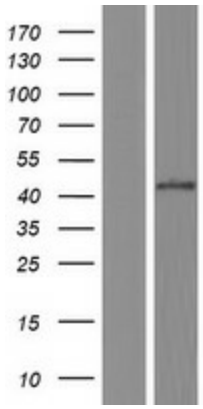
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004430.3
RefSeq Size:	4342 bp
RefSeq ORF:	1164 bp
Locus ID:	1960
UniProt ID:	Q06889
Cytogenetics:	8p21.3
MW:	42.4 kDa
Gene Summary:	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 controling 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]

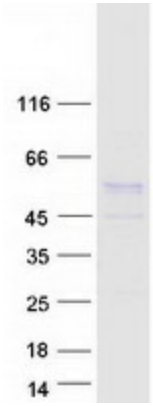
Product images:



Circular map for RC211140



Western blot validation of overexpression lysate (Cat# [LY417984]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211140 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EGR3 protein (Cat# [TP311140]). The protein was produced from HEK293T cells transfected with EGR3 cDNA clone (Cat# RC211140) using MegaTran 2.0 (Cat# [TT210002]).