

## Product datasheet for **RG212183**

### **EGR2 (NM\_000399) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EGR2 (NM_000399) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EGR2
Synonyms:	AT591; CHN1; CMT1D; CMT4E; KROX20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG212183 representing NM\_000399  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATGACCGCCAAGGCCGTAGACAAAATCCCAGTAACTCTCAGTGGTTTTGTGCACCAGCTGTCTGACA  
 ACATCTACCCGGTGGAGGACCTCGCCGCCACGTGGTGACCATCTTTCCCAATGCCGAACCTGGGAGGCC  
 CTTTGACCAGATGAACGGAGTGGCCGGAGATGGCATGATCAACATTGACATGACTGGAGAGAAGAGGTCCG  
 TTGGATCTCCCATATCCAGCAGCTTTGCTCCCGTCTCTGCACCTAGAAACCAGACCTTCACTTACATGG  
 GCAAGTTCTCCATTGACCCTCAGTACCCTGGTGCCAGCTGCTACCCAGAAGGCATAATCAATATTGTGAG  
 TGCAGGCATCTTGAAGGGGTCACTTCCCAGCTTCAACCACAGCCTCATCCAGCGTCACCTCTGCCTCC  
 CCCAACCCACTGGCCACAGGACCCCTGGGTGTGTGCCACATGTCCAGACCCAGCCTGACCTGGACCACC  
 TGTACTCTCGCCACCGCTCCTCCTTATTCTGGCTGTGCAGGAGACCTCTACCAGGACCCCTCTGC  
 GTTCTGTGAGCAGCCACCACCTCCACCTTCTCTGCGCTACCCACCACCTCCTTCTATCCATCC  
 CCCAAGCCAGCCACGGACCCAGGTCTTCCCAATGATCCAGACTATCCTGGATTCTTTCCATCTCAGT  
 GCCAGAGAGACCTACATGGTACAGCTGGCCAGACCGTAAGCCCTTTCCCTGCCACTGGACACCCTGCG  
 GGTGCCCCCTCCACTCACTCCACTCTCTACAATCCGTAACCTTTACCCTGGGGGGCCCAAGTCTGGGGTG  
 ACCGGACCCAGGGCCAGTGGAGGACGAGGGACCCCGGCTGCCTGGTAGCAGCTCAGCAGCAGCAGCAG  
 CCGCCGCCCGCCCGCTATAACCCACACCACCTGCCACTGCGGCCCATCTGAGGCCTCGCAAGTACCC  
 CAACAGACCCAGCAAGACGCCGGTGCACGAGAGGCCCTACCCGTGCCAGCAGAAGGCTGCGACCCGGCGG  
 TTCTCCCGCTCTGACGAGCTGACACGGCACATCCGAATCCACACTGGGCATAAGCCCTTCCAGTGTGCGA  
 TCTGCATGCGCAACTTCAGCCGAGTACCACCTCACCACCCATATCCGCACCCACCCGGTGAGAACGCC  
 CTTGCGCTGTGACTACTGTGGCCGAAAGTTTGCCCGGAGTGATGAGAGGAAGCCACACCAAGATCCAC  
 CTGAGACAGAAAGAGCGGAAAAGCAGTGCCTCTGCATCGGTGCCAGCCCTCTACAGCCTCTGCT  
 CTGGGGCGTGCAGCCTGGGGTACCCTGTGCAGCAGTAAACAGCAGCAGTCTTGGCGGAGGGCCGCTCGC  
 CCCTTGTCTCTCGGACCCGGACACCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG212183 representing NM\_000399  
 Red=Cloning site Green=Tags(s)

MMTAKAVDKIPVTLSGFVHQLSDNIYPVEDLAATSVTIFPNAELGGPFDQMNGVAGDGMINIDMTGEKRS  
 LDLPYPSFAPVSAPRNQFTTYMGKFSIDPOYPGASCYPEGIINIIVSAGILQGVTSASTTASSSVTSAS  
 PNPLATGPLGVCTMSQTQPDLDHLYSPPPPPPPYSGCAGDLYQDPSAFLSAATTSTSSSLAYPPPPSYPS  
 PKPATDPGLFPMIPDYPGFFPSQCQDRLHGTAGPDRKPFPCPLDTRLVPPPLTPLSTIRNFTLGGPSAGV  
 TGPAGSGSEGPRLPGSSSAAAAAAAAAAYNPHHLPLRPILRPRKYPNRPSTKTPVHERPYPCPAEGCDRR  
 FSRDELTRHIRIHTGHKPFQCRICMRNFSRSDHLLTTHIRHTGKPFACDYCGRKFARSDERKRHTKIH  
 LRQKERKSSAPSASVPAPSTASCSGGVQPGGTLCSNSSLGGGLAPCSSRTRTP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_000399

**ORF Size:** 1428 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](#)

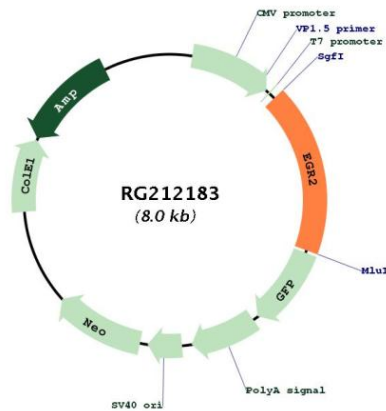
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:	<a href="#">NM_000399.5</a>
RefSeq Size:	2984 bp
RefSeq ORF:	1431 bp
Locus ID:	1959
UniProt ID:	<a href="#">P11161</a>
Cytogenetics:	10q21.3
Domains:	zf-C2H2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	The protein encoded by this gene is a transcription factor with three tandem C2H2-type zinc fingers. Defects in this gene are associated with Charcot-Marie-Tooth disease type 1D (CMT1D), Charcot-Marie-Tooth disease type 4E (CMT4E), and with Dejerine-Sottas syndrome (DSS). Multiple transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]

### Product images:



Circular map for RG212183