

Product datasheet for **SC119904**

EGR2 (NM_000399) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGR2 (NM_000399) Human Untagged Clone
Tag:	Tag Free
Symbol:	EGR2
Synonyms:	AT591; CHN1; CMT1D; CMT4E; KROX20
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000399 edited
 ATGATGACCGCCAAGGCCGTAGACAAAAATCCCAGTAACCTCAGTGGTTTTGTGCACCAG
 CTGTCTGACAACATCTACCCGGTGGAGGACCTCGCCGCCACGTCGGTGACCATCTTTCCC
 AATGCCGAACCTGGGAGGCCCTTTGACCAGATGAACGGAGTGGCCGGAGATGGCATGATC
 AACATTGACATGACTGGAGAGAAGAGGTCGTTGGATCTCCCATATCCCAGCAGCTTTGCT
 CCCGTCTCTGCACCTAGAAACCAGACCTTCACTTACATGGGCAAGTTCTCCATTGACCT
 CAGTACCCTGGTGCCAGCTGCTACCCAGAAGGCATAATCAATATTGTGAGTGCAGGCATC
 TTGCAAGGGGTCACTTCCCCAGCTTCAACCACAGCCTCATCCAGCGTCACCTCTGCCTCC
 CCCAACCCACTGGCCACAGGACCCCTGGGTGTGTGCACCATGTCCAGACCCAGCCTGAC
 CTGGACCACCTGTACTCTCCGCCACCGCCTCCTCCTTATTCTGGCTGTGCAGGAGAC
 CTCTACCAGGACCCTTCTGCGTTCTGTGACGACCCACCTCCACCTTCTCCTCTCTG
 GCCTACCACACCTCCTTCCATCCCATCCCCAAGCCAGCCACGGACCCAGGTCTCTTC
 CCAATGATCCCAGACTATCCTGGATTCTTTCCATCTCAGTGCCAGAGAGACCTACATGGT
 ACAGCTGGCCCAGACCGTAAGCCCTTTCCCTGCCCACTGGACACCCTGCGGGTGCCCCCT
 CCACTCACTCCACTCTCTACAATCCGTAACCTTTACCTGGGGGGCCCCAGTGCTGGGGTG
 ACCGGACCAGGGGCCAGTGGAGGCAGCGAGGGACCCCGGCTGCCTGGTAGCAGCTCAGCA
 GCAGCAGCAGCCGCCGCCGCCCGCCTATAACCCACACCACCTGCCACTGCGGCCATT
 CTGAGGCCCTCGCAAGTACCCCAACAGACCAGCAAGACGCCGGTGACGAGAGGCCCTAC
 CCGTGCCAGCAGAAGGCTGCGACCGGGTCTCCCGCTCTGACGAGCTGACACGGCAC
 ATCCGAATCCACACTGGGCATAAGCCCTTCCAGTGTCCGATCTGCATGCGCAACTTCAGC
 CGCAGTGACCACCTCACCACCCATATCCGCACCCACACCGGTGAGAAGCCCTTCGCTGT
 GACTACTGTGGCCGAAAGTTTGCCCGAGTGATGAGAGGAAGCGCCACACCAAGATCCAC
 CTGAGACAGAAAGAGCGGAAAAGCAGTGCCCCCTCTGCATCGGTGCCAGCCCCCTCTACA
 GCCTCCTGCTCTGGGGCGTGCAGCCTGGGGGTACCCTGTGCAGCAGTAACAGCAGCAGT
 CTTGGCGGAGGGCCGCTCGCCCCCTGCTCCTCTCGGACCCGGACACCTTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000399 unedited
 NGGTTTCAATTATGTATACGACTCACTATAGGGNNCGGCCGNAATTCGGCACGAGGGA
 CTCACTGACTGTTATAATAACACTACACCAGCAACTCCTGGCTTCCCAGCAGCCGGAACA
 CAGACAGGAGAGAGTCACTGGCAATAGACATTTTTCTTATTTCTAAAAACAGCAACT
 TGTTCGACTTTTTATTTCTGTTGATTTTTTTTTCTTGGTGTGTGGTGGTGTGTTTTTA
 AGTGTGGAGGGCAAAAAGGAGATACCATCCCAGGCTCAGTCCAACCCCTCTCCAAAACGGC
 TTTTCTGACACTCCAGGTAGCGAGGGAGTTGGGTCTCCAGTTGTGCGAGGAGCAATGA
 TGACCCCAAGGCGTAGACAAAATCCCAGTAACCTCTCAGTGGTTTTGTGACCAGCTGT
 CTGACAACATCTACCCGGTGGAGGACCTCGCCGCCACGTCGGCGACCATCTTTCCCAATG
 CCGAACTGGGAGGCCCTTTGACCAGATGAACGGAGTGGCCGGAGATGGCATGATCAACA
 TTGACATGACTGGAGAGAAGAGGTGTTGGATCTCCCATATCCCAGCAGCTTTGCTCCCG
 CCCTCGCACCTAGAAACCAGACCTCCACTACATGCGCAAGCCCTCCATGACCCTCAATAC
 CCTGGCGCCAGCCGCTACCCAGAACGCCACCCACCCAGCTGAGCGCACGCATCTTGACA
 GGGTCACTTCCCCTCTCAACCACAGCCCCATCAACCGCACCTCCCACCCCCCACAC
 CCATGCACCCAGGACCCCGCCCGCTCTTCTCCCCCAACAACCCCTTGTCTCTTACA
 AATCTAATTTCCGTACCTATTCTTCTCTCTGCATTAACAAATCATTATCTACC
 TCTCCGTCTCTAATCACTCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000399 unedited
 GGCCGCATCTAGATCGGTTTTTTTTTTTTTTTTTTTTATGTTGAAAATATTTATTTACTA
 TAGTCACAAACCATCCATTATCTGAACTCAGTTAGTGGTTTTGCGTTAGAATAGATTTA
 TTTTTTCAAACTATTAAGAGCTAATGACCAACAATCAGCTCCGGTAACATTATGTAC
 ATTCTTATCTGAAATTTGACTACAAAGGTAACACTTTTAAGTCAAAAACAAAGCATACA
 AAAATATACTTTCTAAAAAAATTCAAAATATTAATAGGCAGAAATATACAGCCATACTA
 AACTCAGGGAGTGATTTTTTTCTCCATAATAAGGCAACCCATTTACATGCAGACCTTGTA
 ACATTGTCTACATCACACAAGGCACCAAGGACACTTCCAACACAATTGCATGCATCCTAG
 TTTTCAAGAAATATGTACATCCCCCTTAAATAAGTTAACCTCTGAGATCATAAATGCTT
 TACATTTTTTCCCAAAGATTGAGAAATTTAGAGAACAGTGTACATCAAAAATACACAAAAT
 CTGAGTGGATATACACTGAAAAAATAGCCTACATTTCTCAAACAACCTCGAAAAGGAGCAG
 ATATTGCTATGTTCCCTCCCATCACATTGCACTTCTGTTCTCTGAGTTTATAATACATATT
 GCTTCAAGGGTTGAGACAACTAGATATGCTCTGATTACCAATTTAGGGCCACAGAGAGT
 GGCATAAAGGCTATACTTCACTCACTGTACAATGTCCCCAAATCAGTCCCCAGCCATA
 AGNCACATCAGTTTTGCTTGTCTTTTTGCTGNCCCACCTGAAGAATCAGCATCTCCAC
 CTATTGTAGAAACGCTTATCACTCTGACTCCAGGTCAAAACCTGGATGGGCAAATTAT
 GGTAGTGGGTACAAAACCTATTAACCTTTTAAGCAGGTAGAATCACCTCTTGCCAGG
 GTCCACACAT

Restriction Sites:

NotI-NotI

ACCN:

NM_000399

Insert Size:

2840 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: no

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_000399.2](#), [NP_000390.2](#)

RefSeq Size: 2984 bp

RefSeq ORF: 1431 bp

Locus ID: 1959

UniProt ID: [P11161](#)

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1, 2, and 3 all encode the same isoform.