

Product datasheet for **RC227414**

EGR2 (NM_001136179) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGR2 (NM_001136179) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EGR2
Synonyms:	AT591; CHN1; CMT1D; CMT4E; KROX20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC227414 representing NM_001136179
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACGGAGTGGCCGGAGATGGCATGATCAACATTGACATGACTGGAGAGAAGAGGTCTGTGGATCTCC
 CATATCCCAGCAGCTTTGCTCCCGTCTCTGCACCTAGAAACCAGACCTTCACTTACATGGCAAGTTCTC
 CATTGACCCTCAGTACCCTGGTGCCAGCTGCTACCCAGAAGGCATAATCAATATTGTGAGTGCAGGCATC
 TTGCAAGGGGTCACTTCCCCAGCTTCAACCACAGCCTCATCCAGCGTCACCTCTGCCTCCCCAACCAC
 TGGCCACAGGACCCCTGGGTGTGTGCACCATGTCCAGACCCAGCCTGACCTGGACCACCTGTACTCTCC
 GCCACCGCTCCTCCTTATTCTGGCTGTGCAGGAGACCTCTACCAGGACCTTCTGCGTTCCTGTCA
 GCAGCCACCACCTCCACCTTCTCTGTCCTACCCACCACCTCCTTCTATCCATCCCCAAGCCAG
 CCACGGACCCAGGTCTTCCCAATGATCCAGACTATCCTGGATTCTTCCATCTCAGTGCCAGAGAGA
 CCTACATGGTACAGCTGGCCAGACCGTAAGCCCTTTCCCTGCCACTGGACACCCTGCGGGTGCCCCCT
 CCACTCACTCCACTCTCTACAATCCGTAACCTTTACCCTGGGGGGCCCCAGTGCTGGGGTGACCCGGACCAG
 GGGCCAGTGGAGGCAGCGAGGGACCCCGCTGCCTGGTAGCAGCTCAGCAGCAGCAGCAGCCGCCCGCC
 CGCCGCTATAACCCACACCACCTGCCACTGCGGCCCATCTGAGGCCTCGCAAGTACCCCAACAGACCC
 AGCAAGACGCCGGTGCACGAGAGGCCCTACCCGTGCCAGCAGAAGGCTGCGACCGCGGTTCTCCCGCT
 CTGACGAGCTGACACGGCACATCCGAATCCACACTGGGCATAAGCCCTTCCAGTGTCCGATCTGCATGCC
 CAATTTCAGCCGAGTGACCACCTACCCACCATATCCGCACCCACACCGGTGAGAAGCCCTTCGCTGT
 GACTACTGTGGCCGAAAGTTTGGCCGGAGTGATGAGAGGAAGCGCCACACCAAGATCCACCTGAGACAGA
 AAGAGCGGAAAAGCAGTGCCCCCTCTGCATCGGTGCCAGCCCTCTACAGCCTCCTGCTCTGGGGCGT
 GCAGCCTGGGGGTACCCTGTGCAGCAGTAACAGCAGCAGTCTTGGCGGAGGGCCGCTCGCCCTTGCTCC
 TCTCGGACCCGGACACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227414 representing NM_001136179
 Red=Cloning site Green=Tags(s)

MNGVAGDGMINIDMTGEKRSLDLPYPSSFAPVSAPRNQTFYMGKFSIDPQYPGASCYPEGIINIIVSAGI
 LQGVTSASTTASSSVTSASPPLATGPLGVCTMSQTQPDLDHLYSPPPPPPPYSGCAGDLYQDPSAFLS
 AATTSTSSSLAYPPPPSYSPKPATDPGLFPMIPDYPGFFPSQCQRDLHGATGPDPRKPFPCPLDTRVPP
 PLTPLSTIRNFTLGGPSAGVTGPGASGGSEGPRLPGSSSSAAAAAAAAAAYNPHHLLRPLRPRKYPNRP
 SKTPVHERPYPCPAEGCDRRFSRSEDLTRHIRIHTGHKPFQCRICMRNFSRSDHLTTHIRTHTEKPFAC
 DYCGRKFARSDEKRHTKIHRLRQKERKSSAPSASVPAPSTASCSGGVQPGGTLCSNSSLGGGLAPCS
 SRTRTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8059_a11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001136179

ORF Size: 1278 bp

OTI Disclaimer: 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_001136179.3](#)

RefSeq ORF: 1281 bp

Locus ID: 1959

UniProt ID: [P11161](#)

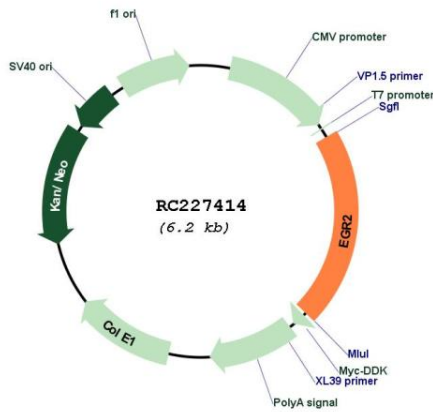
Cytogenetics: 10q21.3

Protein Families: Druggable Genome, Transcription Factors

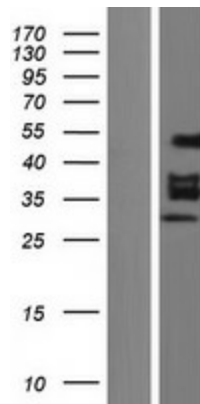
MW: 44.8 kDa

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 RC227414



Western blot validation of overexpression lysate (Cat# [LY427837]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227414 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).