

## Product datasheet for **RG227414**

### **EGR2 (NM\_001136179) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** EGR2 (NM\_001136179) 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)  
**ORF Nucleotide Sequence:** >RG227414 representing NM\_001136179  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAACGGAGTGGCCGGAGATGGCATGATCAACATTGACATGACTGGAGAGAAGAGGTCTGGATCTCC  
 CATATCCCAGCAGCTTTGCTCCCGTCTCTGCACCTAGAAACCAGACCTTCACTTACATGGGCAAGTTCTC  
 CATTGACCCTCAGTACCCTGGTCCAGCTGCTACCCAGAAGGCATAATCAATATTGTGAGTGCAGGCATC  
 TTGCAAGGGGTCACTTCCCAGCTTCAACCACAGCCTCATCCAGCGTCACCTCTGCCTCCCCAACCCAC  
 TGGCCACAGGACCCTGGGTGTGTGCACCATGTCCAGACCCAGCCTGACCTGGACCACCTGTACTCTCC  
 GCCACCGCTCCTCCTTATTCTGGCTGTGCAGGAGACCTTACCAGGACCCTTCTGCGTTCCTGTCA  
 GCAGCCACCACCTCCACCTCTTCTCTCTGGCCTACCCACCACCTCCTTCTATCCATCCCCAAGCCAG  
 CCACGGACCCAGGTCTCTTCCCAATGATCCCAGACTATCCTGGATTCTTTCCATCTCAGTGCCAGAGAGA  
 CCTACATGGTACAGCTGGCCAGACCGTAAGCCCTTTCCCTGCCACTGGACACCCTGCGGGTGCCCCCT  
 CCACTCACTCCACTCTCTACAATCCGTAACCTTTACCCTGGGGGGCCCCAGTGCTGGGGTGACCGGACCAG  
 GGGCCAGTGGAGGCAGCAGGGGACCCCGGCTGCCTGGTAGCAGCTCAGCAGCAGCAGCAGCCGCCCGC  
 CGCCGCTATAACCCACACCACCTGCCACTGCGGCCATTCTGAGGCCTCGAAGTACCCCAACAGACCC  
 AGCAAGACGCCGGTGCACGAGAGGCCCTACCCGTGCCAGCAGAAGGCTGCGACCCGGGTTCTCCCGCT  
 CTGACGAGCTGACACGGACATCCGAATCCACACTGGGCATAAGCCCTTCCAGTGTGGATCTGCATGCG  
 CAACTTACAGCGCAGTGACCACCTACCCACCATATCCGACCCACACCGGTGAGAAGCCCTTGCCTGT  
 GACTACTGTGGCCGAAAGTTTGCCGGAGTGATGAGAGGAAGCGCCACACCAAGTCCACCTGAGACAGA  
 AAGAGCGGAAAAGCAGTGCCCCCTCTGCATCGGTGCCAGCCCCCTTACAGCCTCCTGCTCTGGGGCGT  
 GCAGCCTGGGGTACCCTGTGCAGCAGTAACAGCAGCAGTCTTGGCGGAGGGCCGCTCGCCCTTGTCTC  
 TCTCGGACCCGGACACCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG227414 representing NM\_001136179  
 Red=Cloning site Green=Tags(s)

MNGVAGDGMINIDMTGEKRSLDLPYPSSFAPVSAPRNQFTFTYMGKFSIDPQYPGASCYPEGIINIIVSAGI  
 LQGVTPASTTASSSVTSASPENLATGPLGVCTMSQTQPDLDHLYSPPPPPPYSGCAGDLYQDPSAFLS  
 AATTSTSSSLAYPPPPSYSPKATDPLGFLPMIPDYPGFFPSQCQRDLHGTA GPDRKPFPCPLDLTRVPP  
 PLTPLSTIRNFTLGGPSAGVTGPGASGGSEGPRLPGSSSAAAAAAAAAAYNPHHLPLRPILRPRKYPNRP  
 SKTPVHERPYPCPAEGCDRRFSRSDDELTRHIRIHTGHKPFQCRICMRNFSRSDHLTTHIRTHTGEKPFAC  
 DYCGRKFARSDERKRHTKIHLRQKERKSSAPSASVPAPSTASCSSGGVQPGGTLCSNSSSSLGGGLAPCS  
 SRTRTP

TRTRPLE - GFP Tag - V

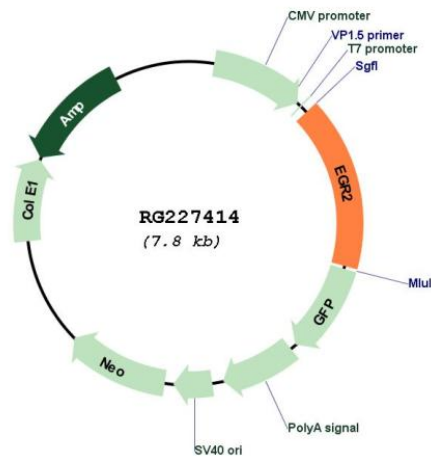
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001136179

<b>ORF Size:</b>	1278 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001136179.3</a>
<b>RefSeq Size:</b>	2892 bp
<b>RefSeq ORF:</b>	1281 bp
<b>Locus ID:</b>	1959
<b>UniProt ID:</b>	<a href="#">P11161</a>
<b>Cytogenetics:</b>	10q21.3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]