

## Product datasheet for **RC236110**

### **RNF86 (TRIM2) (NM\_001302694) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RNF86 (TRIM2) (NM\_001302694) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** TRIM2  
**Synonyms:** CMT2R; RNF86  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236110 representing NM\_001302694  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGCAGCAGCGTGCAGGGTCAAAGACAGCCGGCCCCCATGTCAGTGGTCTAGGATGGCCAGTGAAGGCA  
CCAACATCCCAAGTCCTGTGGTGCAGATTGACAAGCAGTTTCTGATTTGCAGTATATGCCTGGAACG  
GTACAAGAATCCCAAGGTTCTCCCTGTCTGCACACTTTCTGCGAGAGGTGCCTGCAGAACTACATTCTT  
GCCACAGTTTAAACCCTCTCCTGCCAGTGTGCCGCCAGACTCCATCCTGCCCGAGAAAGGGGTGGCCG  
CGCTCCAGAACAATTTCTTCATCACAACCTGATGGACGTGCTGCAGCGAACTCCAGGCAGCAACCGTGA  
GGAGTCTTCCATCCTGGAGACAGTCACTGCTGTGGCTGCGGGAAAGCCTCTCTTTGCCAAACCACGAT  
GGGAATGTAAGTGGCTGGGATGGCAGATACTGCCCGGGAGCA**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC236110 representing NM\_001302694  
**Red=Cloning site Green=Tags(s)**

**MQQRAGSKTAGPPCQWSRMASEGTNIPSPVVRQIDKQFLICISCLERYKNPKVLPCLHTFCERCLQNYIP  
AHSLLSCPVCQTSILPEKGVAALQNNFFITNLMQVLRTPGSNAEESILETVAVAAGKPLSCPND  
GNVSGWDGRYCPGA**

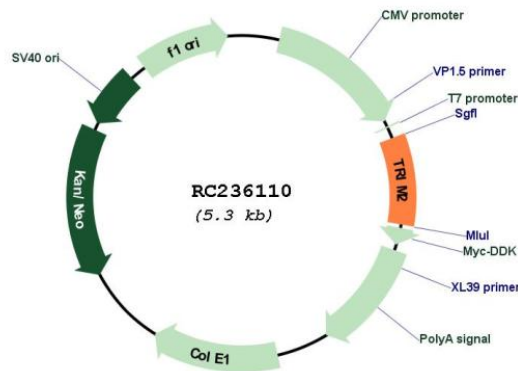
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001302694

ORF Size: 462 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.

<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>	<u>NM_001302694.1, NP_001289623.1</u>
<b>RefSeq Size:</b>	831 bp
<b>RefSeq ORF:</b>	465 bp
<b>Locus ID:</b>	23321
<b>Cytogenetics:</b>	4q31.3
<b>MW:</b>	17.2 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. The protein localizes to cytoplasmic filaments. It plays a neuroprotective role and functions as an E3-ubiquitin ligase in proteasome-mediated degradation of target proteins. Mutations in this gene can cause early-onset axonal neuropathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]