

## Product datasheet for **RG203947**

### **RNF86 (TRIM2) (NM\_015271) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RNF86 (TRIM2) (NM_015271) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRIM2
Synonyms:	CMT2R; RNF86
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG203947 representing NM\_015271  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCCAGTGAAGCACCAACATCCCAAGTCTGTGGTGCAGATTGACAAGCAGTTTCTGATTGCA  
GTATATGCCTGGAACGGTACAAGAATCCCAAGTTCTCCCTGTCTGCACACTTTCTGCGAGAGGTGCCT  
GCAGAACTACATTCTGCCACAGTTTAACTCTCTGCCAGTGTGCCGACAGCTCCATCCTGCC  
GAGAAAGGGTGGCCGCTCCAGAACAATTTCTCATCACAACCTGATGGACGTGCTGCAGCAGAACTC  
CAGGCAGCAACGCTGAGGAGTCTCCATCCTGGAGACAGTCACTGCTGTGGTGCAGGAAAGCTCTCTC  
TTGCCAAACCACGATGGGAATGTGATGGAATTTACTGCCAGTCTGTGAGACTGCCATGTGTCGGGAG  
TGCACGGAGGGGAGCACGCAGAGCACCCACAGTCCACTCAAGGATGTGGTGGAAACAGCACAAAGCCT  
CGCTCCAGGTCCAGCTGGATGCTGTCAACAAAAGGCTCCAGAAATAGATTCTGCTCTTCAGTTCATCTC  
TGAAATCATTATCAGTTAACCAACAAAAGGCCAGCATCGTGGATGACATTATTCCACCTTTGATGAG  
CTCCAGAAGACTTTAAATGTGCGCAAGAGTGTGCTGCTTATGGAATTGGAGGTCAACTATGGCCTCAAAC  
ACAAAGTCTCCAGTCGAGCTGGATACTGCTCCAGGGGACAGGAGAGCATTAAAGACTGCAGCAACTT  
CACAGCGCAGGCCCTCAACCATGGCAGCGGAGCCGAGGTCTACTGGTGAAGAAGCAGATGAGCGAGAAG  
CTGAACGAGCTGGCCGACCAGGACTTCCCTTGCACCCGCGGAGAACGACCAGCTGGATTTTCATCGTGG  
AAACCGAGGGGCTGAAGAAGTCCATCCACAACCTCGGGACGATCTTAACCAACAGCCGTTGCCTCAGA  
GACAGTGGCCACGGGCGAGGGGCTGCGGACAGCATCATCGGGCAGCCATGTCCGTACCATCACCACC  
AAGGACAAAGACGGTGAAGTGTGCAAAAACCGCAACGCCTACCTACCCGCGAAGTGAAGCAGCCCGGAGC  
GGAGCGTGGCAGACGGGAGATCTGGACAACAAGAAGCGCACCTATGAGTTTTTTGATACACTGTCCAGAA  
GGAAGGGGACTTTACCCTGTCTCTGAGACTCTATGACCAGCACATCCGAGGACAGCCCGTTTAAAGTGAAA  
GTGATCCGATCCGCTGATGTGCTCCACCACAGAAGGCGTGAAGAGGCGGTTAAGTCCCGGGGAGCG  
GCCACGTCAAGCAGAAAGCTGTGAAAAGACCCGAAGCATGTACAGCACTGGAAAACGAAAAGAGAATCC  
CATCGAAGACGATTTGATCTTTGAGTGGTACCAAAGGAAGAAATAAGGAGAGTTTACAAATCTTCAG  
GGGTAGTGCATCTACAAATGGAAGATATTAATTGCAGACAGTAACAACCAATGTGTGCAGATATTTT  
CCAATGATGGCCAGTTCAAAGTCGTTTTGGCATAACGGGACGCTCTCCGGGACAGCTGCAGCGGCCAC  
AGGAGTGGCTGTACATCCAGTGGGACATAATCATTGCCGATTATGATAATAAATGGGTCAGCATTTTC  
TCCTCCGATGGGAAATTAAGACAAAAATGGATCAGGAAAGCTGATGGGACCAAGGAGTTTCTGTGG  
ACCGCAATGGGCACATTATTGTTGTGGACAACAAGGCGTGTGCGTGTATCTTCCAGCCAAACGGGAA  
AATAGTACCAGTTTGGTAGCCGAGGAAATGGGACAGGCGATTTGCAGGTCCCATTTTGCAGCTGTA  
AATAGCAATAATGAGATTATTATACAGATTTCCATAATCATTCTGTCAAGGTGTTAATCAGGAAGGAG  
AATTATGTTGAAGTTTGGCTCAATGGAGAAGGAAATGGGCAGTTAATGTCTCAACAGGTGTAGCAGT  
GGATTCAAATGGAACATCATTGTGGCCGACTGGGAAACAGCAGGATCCAGGTTTTTGTGGGAGTGGA  
TCATTTTTGTCTACATTAACACATCTGCTGACCCACTCTATGGCCCCAAGGCTGGCCCTAACTTCAG  
ATGGTCATGTTGTGGTTGCAGACTCTGGAATCACTGTTTCAAAGTCTATCGATACTTACAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG203947 representing NM\_015271  
 Red=Cloning site Green=Tags(s)

MASEG TNIPSPVVRQIDKQFLICSI CLERYKNPKVLPCLHTFCERCLQNYIPAHSLT LSCPVC RQTSILP  
 EKGVAALQNNFFITNLMDVLQRTPGSNAEESIETVTAVAAGKPLSCPNDHGNVMEFYCQSCETAMCRE  
 CTEGEHAEHPTVPLKDVVEQHKASLQVQLDAVNKRLPEIDSALQFISEIIHQLTNQKASIVDDIHSTFDE  
 LQKTLNVRKSVLLMELEVNYGLKHKVLQSQDLTLLQGQESIKSCSNFTAQALNHGTETEVLLVKKQMSEK  
 LNELADQDFPLHPRENDQLDFIVETEGLKKSIIHNLGTILTTNAVASETVATGEGLRQTIIIGQPM SVTITT  
 KDKDGELCKTGNAYLTAELSTPDG SVADGEILDNKNGTYEFLYTVQKEGDFTL SLRLYDQHIRGSPFKLK  
 VIRSADVSP TTEGVKRRV KSPGSGHV KQKAVKRPASMYSTGKRKENPIEDDLIFRVGTGRNKGEFTNLQ  
 GVAASTNGKIL IADSNNQCVQIFSN DGQFKSRFGIRGRSPGQLQRPTGVAVHPSGDIIIADYDNK WVSIF  
 SSDGKFKTKIGSGKLMGPKGVSDVRNGHIIVVDNKACCVFIFQPNGKIVTRFGSRGNGDRQFAGPHFAAV  
 NSNNEIIITDFHNH SVKVFNQEGEFMLKFGSN GEGNGQFNAPTGVAVDSNGNIIIVADWGN SRIQVFDGSG  
 SFLSYINTSADPLYGPQGLALTSDGHVVVADSGNHCFKVYRYLQ

TRTRPLE - GFP Tag - V

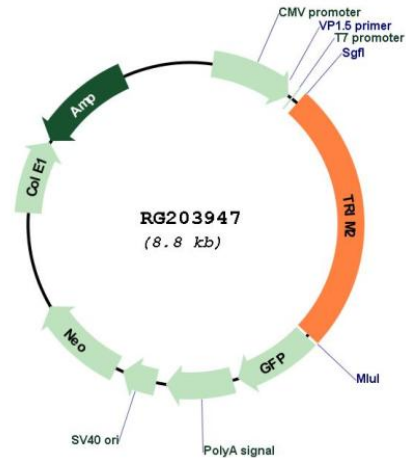
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_015271

ORF Size: 2232 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).

<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_015271.2</a> , <a href="#">NP_056086.1</a>
<b>RefSeq Size:</b>	6734 bp
<b>RefSeq ORF:</b>	2316 bp
<b>Locus ID:</b>	23321
<b>UniProt ID:</b>	<a href="#">Q9C040</a>
<b>Cytogenetics:</b>	4q31.3
<b>Domains:</b>	zf-B_box, NHL, Filamin, RING, BBC
<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]