

## Product datasheet for **RC217706**

### TRIM58 (NM\_015431) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRIM58 (NM_015431) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRIM58
Synonyms:	BIA2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC217706 representing NM\_015431  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCTCGGCGCCGCCGGGAGCGGCTGCGCGAGGATGCGCGGTGCCCGTGTGCTGGATTCTCTGC  
 AGGAGCCGGTCAGCGTGGACTGCGGCCACAGCTTCTGCCTCAGGTGCATCTCCGAGTTCTGCGAGAAGTC  
 GGACGGCGCGCAGGGCGGCTCTACGCCTGTCCGCACTGCGGGGCCCTTCCGGCCCTCGGGCTTTTCGC  
 CCCAACCGGCAGCTGGCGGGCTGGTGGAGAGCGTGCAGCGGCTGGGGTTGGCGCGGGGCCGGGGCGC  
 GGCGATGCGCGCGCACGGCGAGGACCTGAGCCGCTTCTGCGAGGAGGACGAGGCGGCGCTGTGCTGGGT  
 GTGCGACCGCGCCCGAGCACAGGACGCACCGCACGGCGCCGCTGCAGGAGGCCCGCGCAGCTACCAG  
 GTAAGCTCCAGATGGCTCTGGAAGTTATGAGGAAAGAGTTGGAGGACGCCTTGACTCAGGAGGCCAACG  
 TGGGAAAAAGACTGTCATTTGGAAGGAGAAAGTGAAATGCAGAGGCAGCGCTTCAGATTGGAGTTTGA  
 GAAGCATCGTGGCTTTCTGGCCAGGAGGAGCAACGGCAGCTGAGCGGCTGGAGCGGAGGAGCGAGCG  
 ACGCTGCAGAGACTGCGGGAGAGCAAGAGCCGGCTGGTCCAGCAGAGCAAGGCCCTGAAGGAGCTGGCGG  
 ATGAGCTGCAGGAGAGGTGCCAGCGCCCGCCCTGGGTCTGCTGGAGGGTGTGAGAGGATCCTGAGCAG  
 AAGTAAGGCTGTCAAGGCTGGAAGCAGAGAACATCCCCATGGAAGTGAAGACAGCATGCTGCATCCCT  
 GGGAGGAGGGAGCTCTTAAGGAAGTTCCAAGTGGATGTAAGGCTGGATCCCGCCACGGCGCACCCGAGTC  
 TGCTCTTGACCGCGACCTGCGCAGTGTGAGGATGGAGAACCATGGAGGGATGTCCCAACAACCTGA  
 GCGATTTGACACATGGCCCTGCATCCTGGGTTTGAGAGCTTCTCATCAGGGAGGCATTACTGGGAGTT  
 CTGGTGGGAGAAGGAGCAGAGTGGGTTTAGGGTCTGTCAAGACACACTGCCAAGAAAGGGGAAACCA  
 CGCCATCTCCTGAGAATGGGCTGCGCCCTGTGGCTGCTGAAAGGGAATGAGTACATGGTCTTGCCTC  
 CCCATCAGTGCCTCTTCCAACCTGAAAGTCTCGCTGCATTGGGATTTCTTGACTATGAAGCCGGT  
 GAAATTTCACTTACAATGTCACAGATGGATCTTATATCTACACATTCAACCAACTCTTCTGCTGCTTC  
 TTCGGCCTTACTTTTCTGTGATGCAACTCTTATCTTGCACCCACAACAATAGCAGGGTCAGG  
 AAATTGGGCATCCAGGGATCATTTAGATCTGCTTCTGATGTAAGAGATGATCATCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC217706 representing NM\_015431  
 Red=Cloning site Green=Tags(s)

MASAPGERLRREDARCPVCLDFLQEPVSVDCGHSFCLRCISEFCEKSDGAQGGVYACPQCRGPFPRPSGFR  
 PNRQLAGLVESVRRLLGLGAGPGARRCARHGEDLSRFCEEDEAALCWVCDAGPEHRTHRTAPLQEAAGSYQ  
 VKLQMALELMRKELEDALTQEANVGKKTVIWKEKVEMQRQRFLEFEKHRGFLAQEEQRQLRLEAEERA  
 TLQRLRESKSRLVQQSKALKELADELQERCQRPALGLEGVRGVLSRSKAVTRLEAENIPMELKTACCIP  
 GRRELLRKFQVDVKLDPATAHPSLLLADLRSVQDGEPRDVPNNPERFDTWPCILGLQSFSSGRHYWEV  
 LVGEGAEWGLGVCQDTLPRKGETTPSPENGVWALWLLKGNEYMVLASPSVPLLQLESRPCIGIFLDYEAG  
 EISFYNVTDGSYIYTFNQLFSGLLRPYFFICDATPLILPPTTIAGSGNWSRDHLDPASDVRDDHL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

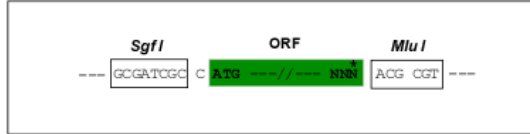
[https://cdn.origene.com/chromatograms/mg2603\\_f09.zip](https://cdn.origene.com/chromatograms/mg2603_f09.zip)

**Restriction Sites:**

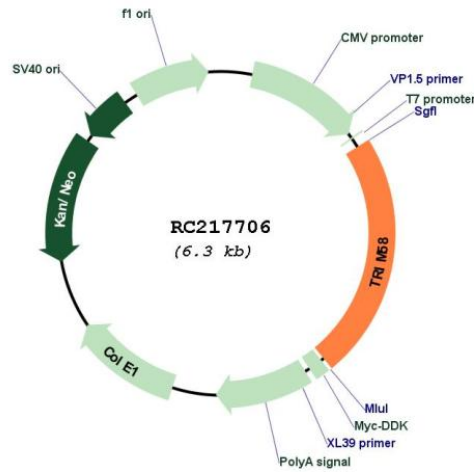
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


<b>ACCN:</b>	NM_015431
<b>ORF Size:</b>	1458 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).

**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\\_015431.2](#), [NP\\_056246.2](#)

**RefSeq Size:** 2594 bp

**RefSeq ORF:** 1461 bp

**Locus ID:** 25893

**UniProt ID:** [Q8NG06](#)

**Cytogenetics:** 1q44

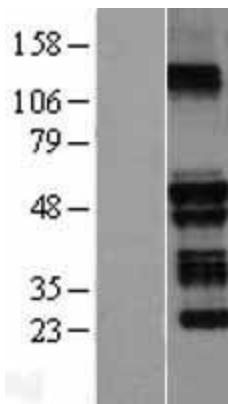
**Domains:** zf-B\_box, RING, SPRY, PRY

**Protein Families:** Druggable Genome

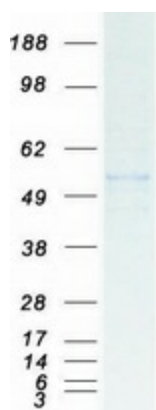
**MW:** 54.6 kDa

**Gene Summary:** E3 ubiquitin ligase induced during late erythropoiesis. Directly binds and ubiquitinates the intermediate chain of the microtubule motor dynein (DYNC1LI1/DYNC1LI2), stimulating the degradation of the dynein holoprotein complex. May participate in the erythroblast enucleation process through regulation of nuclear polarization.[UniProtKB/Swiss-Prot Function]

## Product images:



Western blot validation of overexpression lysate (Cat# [LY402434]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217706 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRIM58 protein (Cat# [TP317706]). The protein was produced from HEK293T cells transfected with TRIM58 cDNA clone (Cat# RC217706) using MegaTran 2.0 (Cat# [TT210002]).