

## Product datasheet for MC223715

### Trim33 (NM\_053170) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trim33 (NM_053170) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trim33
Synonyms:	8030451N04Rik; AI413936; Ecto; Tif1g
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223715 representing NM_053170 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAAAACAAGGCGGGTGGAGCAGAGAGTGGCGGGGGCAGCGGTAGCGGCCGGTAACCG  
CCGGGGCCCGGGCCACGGCGCAGGAGCGGAGCCGCTCTCGCCGGTGTGGTGGAGGAGGAGGA  
GGAGGAAGGCGGCAGGGCTGGCGGGAGGGCGGTGCGGCTGGGCCGACGACGGGGGGTGGCCGCGCC  
TCCTCAAGCTCGGCCCGGCCGCTCGGTCCCGCGGCCCTCAGTGGGCTCCGCGGTCCCGGAGGCGCG  
CATCGACGCCGGTCCAGCTGCTGCCCCAGCCCCGGCCCCGGCCCCGGCCCCGGCCCCCGCTCC  
CGCCCCGGCTCCTGGTTCCTCGTCGGGGCCACCTCTCGGACCACCAGCCTCGCTTCTGGACACTGCGCG  
GTGTGTCAGCAGAGCTTGACAGAGCCGGCGGAGGCGGAGCCCAAGCTGCTCCCCTGCCTGCACTCCTTCT  
GCCTGCGTGTCTGCCGAGCCGGAGCGCCAGCTCAGCGTGCCCATCCCTGGGGCAGCAACGGTGACGT  
CCAGCAAGTTGGTGAATACGGTGTCCAGTATGTCGTCAGAATGTAGACAGATAGATCTTGTGGATAAT  
TATTTTGTGAAAGACACATCTGAAGCTCCTAGCAGCTGATGAGAAATCAGAACAGTATGTAAGTGTG  
GTGAAGATAATGCAAGTGCAGTTGGTTTTGTGTAGAATGTGGAGAGTGGCTGTGAAGCATGCATTGA  
AGCACATCAAAGAGTAAAATCACTAAAGACCCTGATCAGGAAAAAAGAAGATGTCTCAGAGCTGT  
GGAACATCTGGTCAGCGCCAGTGTGTGTCTGTACATAAACAAGAGCAGTTGAAACTATTCTGTGAAA  
CGTGTGATAGATTGACGTGTAGAGACTGTCAACTTTGGAGCACAAAGACATAGGTATCAGTTTTTGA  
AGAGGCTTTTCAAATCAGAAAGGTGCAATTGAAAATCTGTTGGCTAAGCTTCTTAAAAGAAGAATTAT  
GTTCAATTTGCAGCTACACAAGTGCAGAATAGGATTAAGAAGTAAATGAGACTAACAACGTGTAGAAC  
AGGAAATTAAGTGGCCATCTTACCCTTATCAATGAAATTAATAAGAAAGGAAAATCTCTTGAACA  
GCTAGAGAATGTACAAAAGAAAGACAGATGAAGTTACTACAGCAGCAGAATGATATCACAGGCCTCTCC  
CGGCAGGTGAAGCATGTTATGAACTTTACAACTGGGCCATTGCAAGTGGCAGCAGCAGCGCCCTACTTT  
ATAGCAAGCGTCTGATTACTTTTCAAGTACGTCATATTTTAAAAGCCCGATGTGATCCTGTTCTGCTGC  
CAATGGAGCAATTCGTTTCCATTGTGATCCACCTTCTGGGCCAAAAATGTAGTGAATTTAGGTAATCTA  
GTAATAGAGAGTAAGCCAGCTCCTGTTTACTCCTAATGTTGTAGTTGGCAAGTTCCTCCAGGGACAA



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ACCACATTAGTAAAACCCCTGGACAGATTAATTTAGCACAGCTTCGACTCCAGCAGCATGCAGCAACAAGT
GTATGCACAGAAACATCAGCAGTTACAACAGATGAGACTGCAGCAACCACCAGCTCCTATACCAACAACA
ACAGCAACAACCCAGCAGCATCCTAGGCAAGCAGCCCCACAGATGTTACAACAACAGCCTCCAAGATTGA
TCAGTGTGCAACAATGCAAAGAGGCAACATGAACTGTGGAGCATTTCAGGCCATCAAATGAGACTGGC
TCAGAATGCTGCCAGAATACCAGGGATCCCCAGGCACAGTGCCCTCAGTATTCCATGATGCAGCCACAT
CTCCAAGACAACATTCAAATCCAGGACATGCTGGACCGTTTCCTGTTGTATCAGCACACAACCCAATCA
ACCCAACAAGTCCCACCACAGCAACTATGGCAAATGCAAATCGAGGTCCCACCAGCCCTGTTGTTACAGC
AATAGAATTAATACCCTCAGTCACCAATCCAGAAAACCTTCCATCGTTGCCAGATATCCACCTATACAG
TTGGAAGATGCTGGCTCAAGTAGTTTAGATAATCTACTGAGTAGATATATCTCAGGCAGTCATCTACCCC
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CAATTCTCACACACCTGTGAGACCCCTAGCACGTCTAGTACTGGCAGTCGAGGCAGCTGCGGATCATCA
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CTGAAGAAGAGATATGCAGCTTTTCAGGAGCTGTGAAACAAGAGAAGACAGAGGATGGCAGGAGGAGTGC
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CTGGATACATTAAACAGGCCTGGAGAACCACGTGAAGACTGAACCTACAGATATCAGTGAAAGCTGCAAA
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TGGAGGGGATGGCAATAGCAAAGATGATGACCCAAATGAAGACTGGTGTGCCGTCTGCCAGAACGGAGGG
GATCTTTTGTGTTGTGAGAAATGTCCGAAGGTCTTTTACCTTACCTGTCTGTTCCAACACTTCTCAGCT
TTCCAAGTGGAGACTGGATATGCACATTTTGCAGAGATATTGGGAAGCCAGAAGTTGAATATGATTGTGA
TAATATGCAGCATAGTAAGAAGGGGAAAACCTGCACAAGGCTTAAGCCCTGTGGACCAAAGGAAATGTGAA
CGTCTTCTGCTTACCTCTATTGTCACGAATTAAGTATTGAATCCAGGAGCCTGTTCTGTTTCGATAC
CAAACCTACTATAAAATTAAGAAGAACCCGATGGATTTATCAACGGTGAAGAAGAAGCTTCAGAAAAACA
TTCCACAGCATTACCAAATCCCAGATGACTTTGTGGCTGATGTCGTTTGTGATCTTCAAGAAGTGTGAAAGG
TTTAAATGAAATGATGAAAGTTGTTCAAGTTTATGCAGACACACAAGAGATTAATTTGAAGGGTGATTGAG
AAGTAGCTAAGGCAGGGAAGCAGTTGCATTGACTTTGAAGATAAACTCTCAGAGATCTACTCAGACAG
GACCTTACTCCTTTGCCAGAGTTTGCAGAGCAGGAAGATGATGGTGAAGTAACAGAAGACTCTGACGAA
GATTTTATACAGCCTCGTAGAAAACGCCTAAAGTCAGACGAGAGACCAGTACATATAAAGTAA

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_053170

**Insert Size:**

3423 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](#)

**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\\_053170.3](#), [NP\\_444400.2](#)

**RefSeq Size:** 8870 bp

**RefSeq ORF:** 3423 bp

**Locus ID:** 94093

**UniProt ID:** [Q99PP7](#)

**Cytogenetics:** 3 F2.2

**Gene Summary:** Acts as an E3 ubiquitin-protein ligase. Promotes SMAD4 ubiquitination, nuclear exclusion and degradation via the ubiquitin proteasome pathway (By similarity). May act as a transcriptional repressor (By similarity). Inhibits the transcriptional response to TGF-beta/BMP signaling cascade (By similarity). Plays a role in the control of cell proliferation (By similarity). Its association with SMAD2 and SMAD3 stimulates erythroid differentiation of hematopoietic stem/progenitor. Monoubiquitinates SMAD4 and acts as an inhibitor of SMAD4-dependent TGF-beta/BMP signaling cascade (Monoubiquitination of SMAD4 hampers its ability to form a stable complex with activated SMAD2/3 resulting in inhibition of TGF-beta/BMP signaling cascade) (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.