

## Product datasheet for MC223655

### Trim33 (NM\_001079830) Mouse Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Trim33 (NM_001079830) Mouse Untagged Clone   |
| Tag:                      | Tag Free   |
| Symbol:                   | Trim33   |
| Synonyms:                 | 8030451N04Rik; AI413936; Ecto; Tif1g   |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >MC223655 representing NM_001079830<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAAAACAAGGCGGGTGGAGGCAGAGAGTGGCGGGGGGCGAGCGGTAGCGCGCCGTAACCG  
CCGGGGCCCGGGCCACGGCGCAGGAGGCGGAGCCGCCTCTCGCCGCGGTGCTGGTGGAGGAGGAGGA  
GGAGGAAGGCGGCAGGGCTGGCGCGGAGGGCGGTGCGGCTGGGCCGACGACGGGGGGTGGCCGCGCC  
TCCTCAAGCTCGGCCCGCCGCTCGTCCCCGCGCCCTCAGTGGCTCCGCGGTCCCCGAGGCGCGG  
CATCGACGCCGGTCCAGCTGTGCCCCAGCCCCGGCCCCGGCCCCGGCCCCGGCCCCGGCCCCGCTCC  
CGCCCCGCTCCTGGTTCCTCGTCGGGGCCACCTCTCGGACCACAGCCTCGCTTCTGGACACCTGCGCG  
GTGTGTCAGCAGAGCTTGACAGAGCCGGCGGAGGCGGAGCCCAAGCTGCTCCCCTGCCTGCACTCCTTCT  
GCCTGCGTGTCTGCCGGAGCCGGAGCGCCAGCTCAGCGTGCCCATCCCTGGGGGAGCAACGGTGACGT  
CCAGCAAGTTGGTGAATACGGTGTCCAGTATGTCGTCAAGAAATGTAGACAGATAGATCTTGTGGATAAT  
TATTTTGTGAAAGACACATCTGAAGCTCCTAGCAGCTCTGATGAGAAATCAGAACAGGTATGTAAGT  
GTGAAGATAATGCAAGTGCAGTTGGTTTTGTGTAGAATGTGGAGAGTGGCTGTGAAGACATGCATTGA  
AGCACATCAAAGAGTAAAATCACTAAAGACCCTGATCAGGAAAAAAGAAGATGTCTCAGAGTCTGTT  
GGAACATCTGGTCAGCGCCAGTGTGTTGCTGTACATAAACAAGAGCAGTTGAAACTATTCTGTGAAA  
CGTGTGATAGATTGACGTGTAGAGACTGTCAACTTTTGGAGCACAAAGAACATAGGTATCAGTTTTTAGA  
AGAGGCTTTTCAAATCAGAAAGGTGCAATTGAAAATCTGTTGGCTAAGCTTCTTGAAGAAGAATTAT  
GTTCAATTTGAGCTACACAAGTGCAGAAATAGGATTAAGAAGTAAATGAGACTAACAAACGTGTAGAAC  
AGGAAATTAAGTGGCCATCTTACCCTTATCAATGAAATTAATAAGAAAGGAAATCTCTTGAACA  
GCTAGAGAATGTTACAAAAGAAAGACAGATGAAGTTACTACAGCAGCAGAAATGATATCACAGGCCTCC  
CGGCAGGTGAAGCATGTTATGAACTTTACAACTGGGCCATTGCAAGTGGCAGCAGCACGGCCCTACTTT  
ATAGCAAGCGTCTGATTACTTTTCAAGTACGTCATATTTGAAAGCCCGATGTGATCCTGTTCTGCTGC  
CAATGGAGCAATTCGTTCCATTGTGATCCACCTTCTGGCCAAAAATGTAGTGAATTTAGGTAATCTA



GTAATAGAGAGTAAGCCAGCTCCTGGTTATACTCCTAATGTTGTAGTTGGGCAAGTTCCTCCAGGGACAA  
 ACCACATTAGTAAAACCCCTGGACAGATTAATTTAGCACAGCTTCGACTCCAGCAGATGCAGCAACAAGT  
 GTATGCACAGAAACATCAGCAGTTACAACAGATGAGACTGCAGCAACCACCAGCTCCTATACCAACAACA  
 ACAGCAACAACCCAGCAGCATCCTAGGCAAGCAGCCCCACAGATGTTACAACAACAGCCTCCAAGATTGA  
 TCAGTGTGCAACAATGCAAAGAGGCAACATGAACTGTGGAGCATTTCAGCCCCATAAATGAGACTGGC  
 TCAGAATGCTGCCAGAATACCAGGGATCCCCAGGCACAGTGCCCCCTCAGTATTCATGATGCAGCCACAT  
 CTCCAAAGACAACATTCAAATCCAGGACATGCTGGACCGTTTCCTGTTGTATCAGCACACAACCCAATCA  
 ACCCAACAAGTCCCACCACAGCAACTATGGCAAATGCAAATCGAGGTCCCACCAGCCCGTCTGTTACAGC  
 AATAGAATTAATACCCTCAGTCACCAATCCAGAAAACCTTCCATCGTTGCCAGATATCCCACCTATACAG  
 TTGGAAGATGCTGGCTCAAGTAGTTTAGATAATCTACTGAGTAGATATATCTCAGGCAGTCATCTACCCC  
 CTCAGCCTACAAGTACCATGAATCCTTCCCAGGACCCTCTGCGTTATCACCTGGATCTTCAGGCTTATC  
 CAATTCTCACACACCTGTGAGACCCCTAGCACGTCTAGTACTGGCAGTCGAGGCAGCTGCGGATCATCA  
 GGAAGAAGTGTGAGAAAAGTGTCTATAGTTTCAAGTCTGATCAGGTGAAGGTCAAGCAGGAACCTGGGA  
 CTGAAGAAGAGATATGCAGCTTTTCAGGAGCTGTGAAACAAGAGAAGACAGAGGATGGCAGGAGGAGTGC  
 CTGTATGTTGAGCAGTCTGAGAGTAGTTTGACACCACCTCTTCAACTAACCTTACCTAGAGAGTGAG  
 CTGGATACATTAACAGGCCTGGAGAACCAGTGAAGACTGAACCTACAGATATCAGTGAAAGCTGCAAAAC  
 AGTCAGGACTCAGTAACCTAGTCAATGGAAGTCTCCAATTCGAAACCTCATGCACAGGTCGGCAAGGAT  
 TGGAGGGGATGGCAATAGCAAAGATGATGACCCAAATGAAGACTGGTGTGCCGTCTGCCAGAACGGAGGG  
 GATCTTTTGTGTTGTGAGAAATGTCGAAGGTCTTTCATCTTACCTGTCTGTTCCAACACTTCTCAGCT  
 TTCCAAGTGGAGACTGGATATGCACATTTTGCAGAGATATTGGGAAGCCAGAAGTTGAATATGATTGTGA  
 TAATATGCAGCATAGTAAGAAGGGGAAAACCTGCACAAGGCTTAAGCCCTGTGGACCAAAGGAAATGTGAA  
 CGTCTTCTGCTTACCTCTATTGTACGAATTAAGTATTGAATTCAGGAGCCTGTTCTGTTCGATAC  
 CAAACTACTATAAAATTATAAAGAAAACCGATGGATTTATCAACGGTGAAGAAGAAGCTTCAGAAAAACA  
 TTCCCAGCATTACCAAATCCCAGATGACTTTGTGGCTGATGTCCGTTTGATCTTCAAGAAGTGTGAAAGG  
 TTTAATGAAGGTGATTCAGAAGTAGCTAAGGCAGGGAAAGCAGTTGCATTGACTTTGAAGATAAACTCT  
 CAGAGATCTACTCAGACAGGACCTTCACTCCTTTGCCAGAGTTTGAGCAGGACGAAGATGATGGTGAAGT  
 AACAGAAGACTCTGACGAAGATTTTATACAGCCTCGTAGAAAACGCCTAAAGTCAGACGAGAGACCAGTA  
 CATATAAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001079830
- Insert Size:** 3372 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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).

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|-------------------------------|--|
| <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><a href="#">NM_001079830.2</a></u> , <u><a href="#">NP_001073299.1</a></u>  |
| <b>RefSeq Size:</b>           | 8819 bp  |
| <b>RefSeq ORF:</b>            | 3372 bp  |
| <b>Locus ID:</b>              | 94093  |
| <b>UniProt ID:</b>            | <u><a href="#">Q99PP7</a></u>  |
| <b>Cytogenetics:</b>          | 3 F2.2   |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region compared to variant 1. It encodes isoform 2 which is shorter than 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.</p> |