

## Product datasheet for MR222445

### Trim13 (NM\_023233) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Trim13 (NM\_023233) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Trim13  
**Synonyms:** 3110001L12Rik; CAR; LEU5; Rfp2; RNF77  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR222445 representing NM\_023233  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCTGCTTGAAGAAGACCTCACATGCCCAATTTGCTGCAGTTTGTGGATGACCCCGAGTGTTC  
 CCTGCTCACACAACCTTCTGCAAAAAATGCTTAGAAGGGCTCTTAGAGGGGAATGTGCGGAATTCCTGTG  
 GAGACCATCTCCCTTCAAGTGCCTACCTGCCGTAAGGAAACCTCAGCTACTGGAGTCAACAGTCTGCAG  
 GTCAATTACTCCCTAAAGGGTATCGTGGAGAAATACAACAAAATCAAGATTTCTCCAAGATGCCAGTGT  
 GCAAAGGACATTTGGGGCAGCCTCTCAACATCTTCTGCGTAACTGATATGCAGCTGATTTGTGGGATCTG  
 TGCTACTCGAGGCGAGCACCAAGCATGTCTTCTTCTATTGAAGATGCCTACGCTCGAGAAAAGAAAT  
 GCCTTTGAGTCCCTCTTTCAGAGTTTCGAGACTTGGCGCCGGGGAGATGCTCTTCCCGCTTGGATACTT  
 TGGAAACAACAAGAGGAAAGCCCTCCAGTTACTCACGAAGGATTCAGATAAAGTAAAGGAGTTTTTTGA  
 GAAGTTACAGCACACCTTGGATCAAAAGAAGAATGAAATCCTGTCTGACTTTGAAACTATGAAGCTTGCA  
 GTTATGCAAACTATGACCCGGAGATCAACAAAATCAACACTATTTTACAGGAGCAGCGGATGGCCTTCA  
 ACATTGCTGAGGCTTTCAAAGATGTCTCAGAACCTATTATTTTTGCAACAGATGCAAGAGTTCAGGGA  
 GAAAATCAAAGTAATCAAGGAACTCCTTTGCCACACTAATTTGCCACAAGCCCTTTAATGAAGAAC  
 TTTGATACCAGTCAGTGGGGAGACATTAACACTAGTTGATGTGGATAAACTGTCTTTGCCGCAAGACACAG  
 GTGTGTTCACTAGCAAGATTCCTGGTACCCCTATCTGCTGCTCATGATGGTAGTTCTGCTGGGTCTCCT  
 CATATTCTTTGGCCCACTGTATTCTGGAATGGTCTCCACTTGATGAATTGGCAACTTGGAAAAGACTAT  
 CTTTCAAGCTTCAATTCTTACCTGACTAAGTCTGCTGATTTTATAGAACAATCTGTTTTTACTGGGAAC  
 AGATGACAGATGGGTTTTTCATTTTTGGTGAAGAGTAAAAATGTTAGTTTGGTGGCACTGAACAAATGT  
 GGCAGAGTTTATATGCAAATACAACTATTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222445 representing NM\_023233  
Red=Cloning site Green=Tags(s)

MELLEEDLTCPICCSLFDDPRVLPCHNFCKKCLEGLLEGNVRNSLWRPSPFKCPTCRKETSATGVNSLQ  
 VNYSLKGIVEKYNKIKISPKMPVCKGHLGQPLNIFCVTDMQLICGICATRGEHTKHVFSSIEDAYAREKN  
 AFESLFQSFETWRRGDALSRDLTLETNRKALQLLTKDSDKVKEFFEKLQHTLDQKNEILSDFETMKLA  
 VMQTYDPEINKINTILQEQRMAFNIAEAFKDVSEPIIFLQMQEFREKIKVIKETPLPHSNLPTSPLMKN  
 FDTSQWGDIKLVVDKLSLPQDTGVFTSKIPWYPYLLMMVLLGLLIFFGPTVFLEWSPLDELATWKDY  
 LSSFNSYLTKSADFIEQSVFYWEQMTDGGFFIFGERVKNVSLVALNNAEFICKYKLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9029\\_h02.zip](https://cdn.origene.com/chromatograms/mm9029_h02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



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

**ACCN:** NM\_023233

**ORF Size:** 1221 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.

**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\\_023233.3](#), [NP\\_075722.1](#)

**RefSeq Size:** 1578 bp

**RefSeq ORF:** 1224 bp

**Locus ID:** 66597

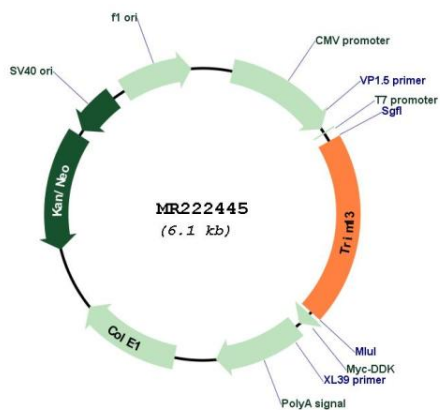
**UniProt ID:** [Q9CYB0](#)

**Cytogenetics:** 14 D1

**MW:** 47.4 kDa

**Gene Summary:** Endoplasmic reticulum (ER) membrane anchored E3 ligase involved in the retrotranslocation and turnover of membrane and secretory proteins from the ER through a set of processes named ER-associated degradation (ERAD). This process acts on misfolded proteins as well as in the regulated degradation of correctly folded proteins. Enhances ionizing radiation-induced p53/TP53 stability and apoptosis via ubiquitinating MDM2 and AKT1 and decreasing AKT1 kinase activity through MDM2 and AKT1 proteasomal degradation. Regulates ER stress-induced autophagy, and may act as a tumor suppressor. Plays also a role in innate immune response by stimulating NF-kappa-B activity in the TLR2 signaling pathway. Ubiquitinates TRAF6 via the 'Lys-29'-linked polyubiquitination chain resulting in NF-kappa-B activation. Participates as well in T-cell receptor-mediated NF-kappa-B activation. In the presence of TNF, modulates the IKK complex by regulating IKBKG/NEMO ubiquitination leading to the repression of NF-kappa-B.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222445