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Product datasheet for MC210398

Trim13 (NM_023233) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim13 (NM_023233) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trim13
Synonyms:	3110001L12Rik; CAR; LEU5; Rfp2; RNF77
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC210398 representing NM_023233 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGCTGCTTGAAGAAGACCTCACATGCCCAATTTGCTGCAGTTTGTTTGATGACCCCCGAGTGTTGC CCTGCTCACACAACTTCTGCAAAAAATGCTTAGAAGGGCTCTTAGAGGGGAATGTGCGGAATTCCCTGTG GAGACCATCTCCCTTCAAGTGTCCTACCTGCCGTAAGGAAACCTCAGCTACTGGAGTCAACAGTCTGCAG GTCAATTACTCCCTAAAGGGTATCGTGGAGAAATACAACAAAATCAAGATTTCTCCCAAGATGCCAGTGT GCAAAGGACATTTGGGGCAGCCTCTCAACATCTTCTGCGTAACTGATATGCAGCTGATTTGTGGGATCTG TGCTACTCGAGGCGAGCACACCAAGCATGTCTTCTCTTCTATTGAAGATGCCTACGCTCGAGAAAAGAAT GCCTTTGAGTCCCTCTTTCAGAGTTTCGAGACTTGGCGCCGGGGAGATGCTCTTTCCCGCTTGGATACTT TGGAAACAAACAAGAGGAAAGCCCTCCAGTTACTCACGAAGGATTCAGATAAAGTAAAGGAGTTTTTTGA GAAGTTACAGCACACCTTGGATCAAAAGAAGAATGAAATCCTGTCTGACTTTGAAACTATGAAGCTTGCA GTTATGCAAACCTATGACCCGGAGATCAACAAAATCAACACTATTTTACAGGAGCAGCGGATGGCCTTCA ACATTGCTGAGGCTTTCAAAGATGTCTCAGAACCTATTATATTTTTGCAACAGATGCAAGAGTTCAGGGA GAAAATCAAAGTAATCAAGGAAACTCCTTTGCCACACTCTAATTTGCCCACAAGCCCTTTAATGAAGAAC TTTGATACCAGTCAGTGGGGAGACATTAAACTAGTTGATGTGGATAAACTGTCTTTGCCGCAAGACACAG GTGTGTTCACTAGCAAGATTCCCTGGTACCCCTATCTGCTGCTCATGATGGTAGTTCTGCTGGGTCTCCT CATATTCTTTGGCCCCACTGTATTCCTGGAATGGTCTCCACTTGATGAATTGGCAACTTGGAAAGACTAT CTTTCAAGCTTCAATTCTTACCTGACTAAGTCTGCTGATTTTATAGAACAATCTGTTTTTTTACTGGGAAC AGATGACAGATGGGTTTTTCATTTTTGGTGAAAGAGTAAAAAATGTTAGTTTGGTGGCACTGAACAATGT GGCAGAGTTTATATGCAAATACAAACTATTATAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_023233
Insert Size:	1224 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).
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
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] Transcript Variant: This variant (2) represents use of an alternate promoter and 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same protein.