

Product datasheet for RN202948

Trim13 (NM_001012210) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Trim13 (NM_001012210) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Trim13
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >RN202948 representing NM_001012210
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTTGCTTGAAGAAGATCTCACATGCCCGATTTGTTGCAGTTTGTGGATGATCCCGAGTGTTC
 CCTGCTCACACAACCTTCTGCAAAAAATGCTTAGAAGGGCTTTAGAGGGGAATGTGCGGAATTCATTGTG
 GAGACCATCTCCATTCAAGTGTCTACCTGTCTAAGGAACTCAGCTACTGGAGTCAATAGTCTGCAG
 GTTAATTAATCCCTAAAGGGTATTGTGGAGAAATACAACAAAATCAAGATTTCTCCAAAATGCCGGTGT
 GCAAAGAACACTTGGGGCAGCCTCTCAACATTTCTGTGTGACCGACATGCAGCTGATCTGTGGGTCTG
 TGCTACTCGTGGCAGTCACACCAAGCATGTCTTCTCGTCTATTGAGGATGCCTACACTCAGGAAAGGGAT
 GCCTTCGAGTTTCTTTTCTCAGAGCTTTGAGACTTGGCGCCGGGAGATGCTTTTCCCGCTTGGACACTT
 TGGAAACAACAAGAGGAAATCCCTACAGTTGCTCACTAAAGATTCAGATAAAGTAAAGGAGTTTTTTGA
 GAAGTTACAGCACACATTGGATCAAAGAAGAATGAAATCCTGTCTGACTTTGAAACTATGAAGCTGGCA
 GTTATGCAGACCTACGACCCGGAGATCAACAAGCTCAACAGTATTTTACAGGAGCAGCGAATGCCCTTCA
 ACATCGCCGAGGGTTCAAAGACGTCTCAGAACCATTATATTTCTGCAACAGATGCAGGAGTTCAGGGA
 GAAAATCAAAGTAATCAAGGAACTCCTTTGCCACCCTCTAATTTGCCACAAGCCCTTTAATGAAGAAC
 TTCGATACCAGTCAAGTGGGAGGACATTAATACTAGTGGACGTGGATAAACTCTCTCTGCCTCAAGACCCG
 GCGTGTCTACCAGCAGGAGCCCTGGCACCCCTGTCTGCTGCTCATGGCGGTAGTTCTGCTGGGTCTCT
 TGTATTCTTTGGCCCACTGTATTCTGGAGTGGTCTCCACTTGAAGAATTGGCAACTTGGAAAGACTGC
 CTTTCAAGCTTCAATTCTTACCTGACTAAATCAGCTGACTTTGTAGAGCAATCTGTTTTTACTGGGAAC
 AGATGACAGATGGGCTTTTCGTTTTAGTGAAGAGTGAAAAATGTTAGTTTGGTGGCACTGAACAATGT
 GGCAGAATTTGTATGCAAATACAACTATTATA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



ACCN:	NM_001012210
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:	<ol style="list-style-type: none">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:	<u>NM_001012210.1</u> , <u>NP_001012210.1</u>
RefSeq Size:	1386 bp
RefSeq ORF:	1224 bp
Locus ID:	364398
UniProt ID:	<u>Q5M7V1</u>
Cytogenetics:	15p12
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]