

Product datasheet for **MC218991**

Trim23 (NM_030731) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim23 (NM_030731) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trim23
Synonyms:	6330516O20Rik; AI450195; Arfd1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218991 representing NM_030731
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTCTGTTTTATATACAGTTCTCGAGTGTGGGGTTGTGAAGATGTCTTCTTTGCAAGGAGATA
 AAGTTCCTCGCCTCCTCCTGTGGCCACACAGCTGTGCATGACTGTCTTACTCGCTTGCCTCTGCATGG
 AAGAGCAATACGTTGCCCATTTGATCGACAAGTAACAGACCTAGGAGACTCAGGTGTATGGGGTTTGAAA
 AAGAACTTTGCTTACTGGAGCTTTTGAACGTTTGCAAATGGGCACATTGGTCAGTATGGAGCTGCAG
 AAGAGGCCATTGGGACATCTGGAGAGAGCATCATTGCTGTGATGAAGATGAAGCTCACGTTGCATCTGT
 ATATTGCACTGTGTGCAACTCACTTGTGCTCAGACTGTTCTCAAGTTACTCATTCTACAAAGACATTA
 GCAAAGCATAGGCGTGTGCTCTAGCTGATAAACCTCATGAGAAAACCATGTGCTGTCAGCACCAGGTGC
 ATGCCATTGAGTTTGTGCTTGAAGAAGGTTGTCAAAGTCCACTCATGTGCTGTGCTGCAAGA
 ATATGAAAGCACCAAGGTCACAAGCATTCAAGTACTGGAACAGAAAGCTAATCAGATCCGAGCATCAATT
 TTAGACATGGCTCACTGCATACGGACCTTCACTGAGGAAATCTCAGATTATCCAGAAAATTAGTTGGGA
 TTGTTCCAGCACATTGAAGGAGGAGAACAATAGTAGAAGATGGAATTGGAATGGCTCACACAGAACATGT
 CCCAGGTAAGTGCAGAGAAATGCCCGATCATGTGTGACAGCTTATTTTTCTGATTTACATGAAACTCTTTGT
 CGTCAAGAAGAAATGGCTCTAAGTGTGTTGTGATGCCCATGTTTCGAGAAAAACTGATTTGGCTTAGGCAGC
 ACAAGAGGATATGACTATTCTTTGTCCCAGGTCTCAACAGCCTGTCTCCACTGTGAAAAAACTCTGCA
 GCAGGATGATTGCAGAGTTGTCTTGGCAAAAACAAGAAATCACAAGATTACTAGAAACACTGCAGAAACAG
 CAGCAGCAGTTTACAGAGGTTGCAGATCATATTCAGTTGGATGCCAGTATTCCAGTCACTTTTACAAGG
 ACAATAGAGTTTCATATTGGACCCAAAATGGAAATCCGAGTAGTCACATTAGGATTAGTGGTGTGAAAA
 AACTACCATTTTGTCAAGTTAAAACAAGATGAATTTATGCAACCTATTCCAACAATTGGTTTTAATGTG
 GAAACTGTGGAATACAAAATCTAAAATTCACCATTTGGGATGTGGGTGAAAAACAAAATTAAGACCAT
 TGTGGAACATTATTACCTCAATACACAAGCTGTTGTATTTGTTGTTGATAGTAGTCATAGAGACAGAAT
 TAGTGAAGCACACAGTGAAGTTGCAAGTTGTTAACGAAAAAGAACTCCGAGATGCCTTACTCTTGATT
 TTTGCTAACAAACAGGATGTAGCTGGAGCACTTTCAGTAGAAGAAATCACTGAAGTTCTCAGTCTCCATA
 AACTATGCTGTGGAAGGAGTTGGTATATTCAGGGCTGTGATGCTCGAAGTGAATGGGGCTCTACGAAGG
 GTTGGACTGGCTGCCCGCAACTGTGGCTGCTGGAGTGTGGATGTTGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_030731

Insert Size: 1665 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_030731.3](#), [NP_109656.1](#)

RefSeq Size: 4258 bp

RefSeq ORF: 1665 bp

Locus ID: 81003

UniProt ID: [Q8BGX0](#)

Cytogenetics: 13 D1

Gene Summary: Acts as an E3 ubiquitin-protein ligase. Plays an essential role in autophagy activation during viral infection. Mechanistically, activates TANK-binding kinase 1/TBK1 by facilitating its dimerization and ability to phosphorylate the selective autophagy receptor SQSTM1. In order to achieve this function, TRIM23 mediates 'Lys-27'-linked auto-ubiquitination of its ADP-ribosylation factor (ARF) domain to induce its GTPase activity and its recruitment to autophagosomes.[UniProtKB/Swiss-Prot Function]