

Product datasheet for **MG225244**

Trim23 (NM_030731) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim23 (NM_030731) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trim23
Synonyms:	6330516O20Rik; AI450195; Arfd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225244 representing NM_030731
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTCTGTTTTATATACAGTTCTCGAGTGTGGGTTTGTGAAGATGTCTTCTTTGCAAGGAGATA
 AAGTTCCTCGCCTCCTCCTCTGTGGCCACACAGCTGTGCATGACTGTCTTACTCGCTTGCCTCTGCATGG
 AAGAGCAATACGTTGCCATTTGATCGACAAGTAACAGACCTAGGAGACTCAGGTGTATGGGTTTGAAA
 AAGAACTTTGCTTACTGGAGCTTTTAAACGTTTGCAAATGGGCACATTGGTCAGTATGGAGCTGCAG
 AAGAGGCCATTGGGACATCTGGAGAGAGCATCATTGCTGTGATGAAGATGAAGCTCACGTTGCATCTGT
 ATATTGCACTGTGTGCAACTCACTTGTGCTCAGACTGTTCTCAAGTTACTCATTCTACAAAGACATTA
 GCAAAGCATAGGCGTGTGCCTCTAGCTGATAAACCTCATGAGAAAACCATGTGCTGTCAGCACCAGGTGC
 ATGCCATTGAGTTTGTGCTTGAAGAAGGTTGTCAAAGTCCACTCATGTGCTGTGCTGCAAGA
 ATATGGAAGCACCAAGTCCACAAGCATTCACTACTGGAACAGAACTAATCAGATCCGAGCATCAATT
 TTAGACATGGCTCACTGCATACGGACCTTCACTGAGGAAATCTCAGATTATCCAGAAAATTAGTTGGGA
 TTGTTCCAGCACATTGAAGGAGGAGAACAATAGTAGAAGATGGAATTGGAATGGCTCACACAGAACATGT
 CCCAGGTAAGTGCAGAGAAATGCCCGATCATGTGTGACAGCTTATTTTTCTGATTTACATGAAACTCTTTGT
 CGTCAAGAAGAAATGGCTCAAGTGTGTTGATGCCCATGTTTCGAGAAAAACTGATTTGGCTTAGGCAGC
 AACAAAGAGGATATGACTATTCTCTTGTCCCAGGTCTCAACAGCCTGTCTCCACTGTGAAAAAACTCTGCA
 GCAGGATGATTGCAGAGTTGTCTTGGCAAAAACAAGAAATCACAAGATTACTAGAAACACTGCAGAAAACAG
 CAGCAGCAGTTTACAGAGGTTGCAGATCATATTCAGTTGGATGCCAGTATCCAGTCACTTTTACAAGG
 ACAATAGAGTTTCATATTGGACCCAAAATGGAAATCCGAGTAGTCACATTAGGATTAGATTGGTTGGAAA
 AACTACCATTTTGTCAAGTTAAAACAAGATGAATTTATGCAACCTATTCCAACAATTGGTTTTAATGTG
 GAAACTGTGGAATACAAAATCTAAAATTCACCATTTGGGATGTGGGTGGAAAACACAAAATTAAGACCAT
 TGTGGAACATTATTACCTCAATACACAAGCTGTTGATTTGTTGTTGATAGTAGTCATAGAGACAGAAT
 TAGTGAAGCACACAGTGAAGTTGCAAGTTGTTAACGAAAAAGAACTCCGAGATGCCTTACTCTTGATT
 TTTGCTAACAAACAGGATGTAGCTGGAGCACTTTCAGTAGAAGAAATCACTGAAGTTCTCAGTCTCCATA
 AACTATGCTGTGGAAGGAGTTGGTATATTCAGGGCTGTGATGCTCGAAGTGAATGGGGCTCTACGAAGG
 GTTGGACTGGCTGCCCGCAACTGTGGCTGCTGGAGTGTGGATGTTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225244 representing NM_030731
 Red=Cloning site Green=Tags(s)

MFLFYIQVLECGVCEVDFSLQGDVPRLLLCHGTVCHDCLTRLPLHGRAIRCPFDRQVTDLGDSDGVWGLK
 KNFALLELLERLQNGHIGQYGAEEAIGTSGESIIRCDDEAHVASVYCTVCATHLCSDCSQVTHSTKTL
 AKHRRVPLADKPHEKTMCCQHQAIEFVCLEEGCQTSPLMCCVCKEYGKHQGHKHSVLEPEANQIRASI
 LDMAHCIRTFTEEISDYSRKLVGIVQHIIEGGEQIVEDGIGMAHTEHVPFTAENARSCVRYAFSDLHETLC
 RQEEMALSVVDAHVREKLIWLRQQQEDMTILLSQVSTACLHCEKTLQDDCRVVLAKQEITRLETLQKQ
 QQQFTEVADHIQLDASIPVFTKDNRVHIGPKMEIRVVTLGLDGAGKTTILFKLKQDEFMQPIPTIGFNV
 ETVEYKNLKFTIWDVGGKHKLRPLWKHYLLNTQAVVFDSSHRDRISEAHSELAKLLTEKELRDALLLI
 FANKQDVAGALSVEEITELLSLHKLCCGRSWYIQGCDARSGMGLYEGLDWLSRQLVAAGVLDVA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_030731

ORF Size: 1662 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_030731.3](#), [NP_109656.1](#)

RefSeq Size: 4258 bp

RefSeq ORF: 1665 bp

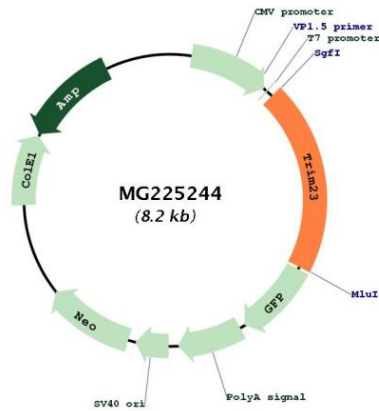
Locus ID: 81003

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]

Product images:



Circular map for MG225244