

Product datasheet for **MR209027**

Trim23 (BC059017) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim23 (BC059017) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trim23
Synonyms:	6330516O20Rik; AI450195; Arfd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209027 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGCCCTCGCTGTAACAAGCCCGGAGCCGGAGTAGACAGTGGCGGCAGGCAGCCGGGGACGG
 CTGTGGTGAAGGTTCTGGAGTGTGGGTTTGTGAAGATGTCTTCTTTGCAAGGAGATAAAGTTCTCTG
 CCTCTCTCTGTGGCCACACAGTCTGTGATGACTGTCTTACTCGCTTGCTCTGCATGGAAGAGCAATA
 CGTTGCCCATTTGATCGACAAGTAACAGACCTAGGAGACTCAGGTGTATGGGTTTGAAGAAAGAACTTTG
 CTTTACTGGAGCTTTTAGAACGTTTCAAAAATGGGCACATTGGTCAGTATGGAGCTGCAGAAGAGGCCAT
 TGGGACATCTGGAGAGAGCATCATTGCTGTGATGAAGATGAAGCTCACGTTGCATCTGTATATTGCACT
 GTGTGTGCAACTCACTTGTGCTCAGACTGTTCTCAAGTACTCATTCTACAAAGACATTAGCAAAGCATA
 GCGGTGTGCTCTAGCTGATAAACCTCATGAGAAAACCATGTGCTGTGAGCACCAGGTGCATGCCATTGA
 GTTTGTTTGTGTTGAAGAAGGTTGTCAAAGTCCACTCATGTGCTGTGCTGCAAAGAATATGGAAAG
 CACCAAGGTCACAAGCATTCACTACTGGAACAGAAAGCTAATCAGATCCGAGCATCAATTTAGACATGG
 CTCACTGCATACGGACCTTCACTGAGGAAATCTCAGATTATCCAGAAAATTAGTTGGGATTGTTACGCA
 CATTGAAGGAGGAGAACAATAGTAGAAGATGGAATTGGAATGGCTCACACAGAACATGTCCAGGTA
 GCAGAGAATGCCCGATCATGTGTCAGAGCTTATTTTCTGATTTACATGAACTCTTTGTCGTCAGAAAG
 AAATGGCTCTAAGTGTGTTGATGCCCATGTTTCGAGAAAACTGATTTGGCTTAGGCAGCAACAAGAGGA
 TATGACTATTCTTGTCCCAGGCTCAACAGCCTGTCTCCACTGTGAAAACTCTGCAGCAGGATGAT
 TGCAGAGTTGTCTTGGCAAAAACAAGAAATCACAAAGTACTAGAAACACTGCAGAAACAGCAGCAGCAGT
 TTACAGAGTTGCAGATCATATTCAGTTGGATGCCAGTATCCAGTCACTTTTACAAGGACAATAGAGT
 TCATATTGGACCCAAAATGGAAATCCGAGTAGTCACATTAGGATTAGATGGTGTGGAAGAACTACCATT
 TTGTTCAAGTTAAAACAAGATGAATTTATGCAACCTATCCAAACAATTGTTTTAATGTGGAAGTGTGG
 AATACAAAACTAAAATTCACCATTTGGGATGTGGGTGGAACACAAAATTAAGACCATTGTGGAACA
 TTATTACCTCAATACACAAGCTGTTGATTTGTTGTTGATAGTAGTCATAGAGACAGAAATAGTGAAGCA
 CACAGTGAAGTTCGAAAGTTGTTAACGGAAAAAGAACTCCGAGATGCCTTACTCTTGATTTTTGCTAACA
 AACAGGATGTAGCTGGAGCACTTTCAGTAGAAGAAATCACTGAAGTCTCAGTCTCCATAAACTATGCTG
 TGAAGGAGTTGGTATATTCAGGGCTGTGATGCTCGAAGTGAATGGGGCTCTACGAAGGTTGGACTGG
 CTGTCCCAGCACTTGTGCTGTGGAGTGTGGATGTTGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209027 protein sequence
 Red=Cloning site Green=Tags(s)

MAALAVNKPAGVDSGRQGSRGTA VVKVLECGVCEVFLSLQGDKVPRLLLCGHTVCHDCLTRLPLHGRAI
 RCPFDRQVTDLDGDSGVWGLKKNFALLELLERLQNGHIGQYGAEEAIGTSGESIIRCEDEAHVASVYCT
 VCATHLCSDCSQVTHSTKTLAKHRRVPLADKPHEKTMCCQHVVHAI EFVCL EEGCQTSPLMCCVCKEYK
 HQGHKHSVLEPEANQIRASILDMAHCIRTFTTEEISDYSRKL VGI VQHIEGGEQIV EDGIGMAHTEHVP
 AENARSCVRAYFSDLHETLCRQEEMALSVVDAHVREKLIWLRQQQEDMTILLSQVSTACLHCEKTLQDD
 CRVVLAKQEITRLLLETLQKQQQFTEVADHIQLDASIPVTFTKDNRVHIGPKMEIRVVTLGLDGAGKTTI
 LFKLKQDEFMQPIPTIGFNVETVEYKNLFTIWDVGGKHKLRPLWKHYLNTQAVVVFVVDSSHRDRISEA
 HSELAKLLTEKELRDALLLIFANKQDVAGAL SVEEITELLSLHKLCCGRSWYIQGCDARSGMGLYEGLDW
 LSRQLVAAGVLDVA

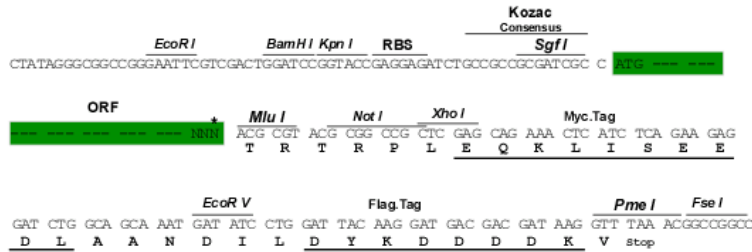
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: BC059017

ORF Size: 1722 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: [BC059017](#), [AAH59017](#)
RefSeq Size: 3385 bp

RefSeq ORF: 1724 bp

Locus ID: 81003

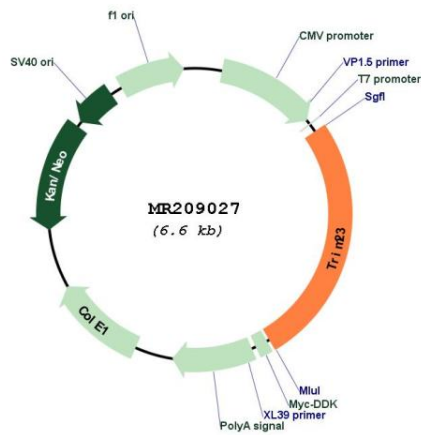
Cytogenetics: 13 D1

MW: 63.9 kDa

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 MR209027