

Product datasheet for **MG209027**

Trim23 (BC059017) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Trim23 (BC059017) 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:

>MG209027 representing BC059017
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGCCCTCGCTGTAACAAGCCCGGAGCCGGAGTAGACAGTGGCGGCAGGCAGCCGGGGACGG
 CTGTGGTGAAGGTTCTGGAGTGTGGGTTTGTGAAGATGTCTTCTTTGCAAGGAGATAAAGTTCTCTCG
 CCTCTCTCTGTGGCCACACAGTCTGTGATGACTGTCTTACTCGCTTGCCTCTGCATGGAAGAGCAATA
 CGTTGCCCATTTGATCGACAAGTAACAGACCTAGGAGACTCAGGTGTATGGGTTTAAAAAGAAGTTG
 CTTTACTGGAGCTTTTAGAACGTTTCAAAAATGGGCACATTGGTCAGTATGGAGCTGCAGAAGAGGCCAT
 TGGGACATCTGGAGAGAGCATCATTGCTGTGATGAAGATGAAGCTCACGTTGCATCTGTATATTGCACT
 GTGTGTGCAACTCACTTGTGCTCAGACTGTTCTCAAGTACTCATTCTACAAAGACATTAGCAAAGCATA
 GCGGTGTGCTCTAGCTGATAAACCTCATGAGAAAACCATGTGCTGTGAGCACCAGGTGCATGCCATTGA
 GTTTGTTTGTGTTGAAGAAGGTTGTCAAAGTACTCCACTCATGTGCTGTGCTGCAAAGAATATGAAAAG
 CACCAAGGTCACAAGCATTCACTACTGGAACAGAAAGCTAATCAGATCCGAGCATCAATTTTAGACATGG
 CTCACTGCATACGGACCTTCACTGAGGAAATCTCAGATTATCCAGAAAATTAGTTGGGATTGTTACGCA
 CATTGAAGGAGGAGAACAATAGTAGAAGATGGAATTGGAATGGCTCACACAGAACATGTCCAGGTA
 GCAGAGAATGCCCGATCATGTGTCAGAGCTTATTTTCTGATTTACATGAAACTCTTTGTCGTCAGAAAG
 AAATGGCTCTAAGTGTGTTGATGCCCATGTTTCGAGAAAAACTGATTTGGCTTAGGCAGCAACAAGAGGA
 TATGACTATTCTTGTCCCAGGCTCAACAGCCTGTCTCCACTGTGAAAAACTCTGCAGCAGGATGAT
 TGCAGAGTTGTCTTGGCAAAAACAAGAAATCACAAAGTACTAGAAACTGCAGAAACAGCAGCAGCAGT
 TTACAGAGGTTGCAGATCATATTCAGTTGGATGCCAGTATCCAGTCACTTTTACAAAGGACAATAGAGT
 TCATATTGGACCCAAAATGGAAAATCCGAGTAGTCACATTAGGATTAGATGGTGTGGAAAAACTACCATT
 TTGTTCAAGTTAAAAACAAGATGAATTTATGCAACCTATCCAAACAATTGTTTTAATGTGAAAAGTGTGG
 AATACAAAAATCTAAAATTCACCATTTGGGATGTGGGTGGAAAACACAAATTAAGACCATTGTGAAAACA
 TTATTACCTCAATACACAAGCTGTTGTATTTGTTGTTGATAGTAGTCATAGAGACAGAATTAGTGAAGCA
 CACAGTGAAGTTCGAAAGTTGTTAACGGAAAAAGAACTCCGAGATGCCTTACTCTTGATTTTTGCTAACA
 AACAGGATGTAGCTGGAGCACTTTCAGTAGAAGAAATCACTGAAGTCTCAGTCTCCATAAACTATGCTG
 TGAAGGAGTTGGTATATTCAGGGCTGTGATGCTCGAAGTGAATGGGGCTCTACGAAGGGTTGGACTGG
 CTGTCCCGCAACTTGTGCTGTGGAGTGTGGATGTTGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209027 representing BC059017
 Red=Cloning site Green=Tags(s)

MAALAVNKPAGVDSGRQGSRGTA VVKVLECGVCEVDFSLQGDVPRLLL CGHTVCHDCLTRLPLHGRAI
 RCPFDRQVTDLGD SGVWGLKKNFALLELLERLQNGHIGQYGAEEAIGTSGESIIRCDDEAHVASVYCT
 VCATHLCSDCSQVTHSTKTLAKHRRVPLADKPHEKTMCCQH QVHAI EFVCL EEGCQTSPLMCCVCKEY GK
 HQGHKHSVLEPEANQIRASILDMAHCIRTFTEEISDYSRKL VGI VQHIEGGEQIV EDGIGMAHTEHPGT
 AENARSCVRA YFSDLHETL CRQEEMALSVVDAHVREKLIWLRQQQEDMTILL SQVSTACLHCEKTLQDD
 CRVVLAKQEITR LLET LKQQQQFTEVADHIQLDASIPVTF TKDNRVHIGPKMEIRVVTLGLDGAGKTTI
 LFKLKQDEFMQPIPTIGFNVETVEYKNLKF TIWVGGKHKLRPLWKHYLNTQAVV FVVDSSHRDR ISEA
 HSELAKLLTEKELRDALLLIFANKQDVAGAL SVEEITELL SLHKLCGRSWYIQGCDARSGMGLYEGLDW
 LSRQLVAAGVLDVA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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| 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: | <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: | BC059017 , AAH59017 |
| RefSeq Size: | 3385 bp |
| RefSeq ORF: | 1724 bp |
| Locus ID: | 81003 |
| 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] |