

## Product datasheet for MR206553

### Tgtp1 (NM\_011579) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tgtp1 (NM_011579) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tgtp1
Synonyms:	Gtp2; Irgb6; Mg21; Tgtp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206553 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTGGGCTCCAGCTTTGATGCATTCTTTAAGAATTTAAAAGGAAAGCAAATCATCTCTGAAT  
ATGACATCACCTTGATTGACTTACATAGAGGAAAATAAGCTACAGAAAGCTGTTTCTGTAATTGAAA  
GGTACTGAGAGACATCGAGAGTGCTCCTCTGCACATAGCTGTGACAGGGGAAACAGGCGCAGGAAAGTCC  
ACTTTTCATCAATACCCTGAGGGGGTGGGCGATGAAGAAAAGGTGCAGCCCCACTGGCGCAATAGAGA  
CAACCATGAAGAGAACTCCATACCCACACCCAAAGCTTCCAACGTGACAATATGGGACCTGCCTGGCAT  
TGGGACCACTAATTCACACCACAAAATATCTGACAGAAATGAAGTTTGGTGAGTACGACTTCTTCATT  
ATCATCTCAGCTACAGTTTCAAAGAAAATGATGCACAACCTGGCCAAAGCCATTGCACAGATGGGGATGA  
ATTTCTACTTTGTGAGAACCAAGATAGACAGCGACTTAGATAATGAACAGAAAGTTAAGCCCTAAGAGTTT  
CAATAAGGAGGAAGTCTCAAGAATATTAAGGATTACTGCTCTAATCATCTTCAGGAGTCTCTCGACAGT  
GAGCCTCCAGTCTTCTAGTCTTAACGTTGATATATCGAAGTATGACTTCCCAAAGCTGGAAACTAAAC  
TCCTACAGGATCTCCAGCCACAAGCGCCACGCTTCTCACTGTCTTTGCAAAGTCTTACTGAGGCCAC  
CATTAACTACAAGAGAGATTCCCTGAAGCAAAAAGTCTTCTAGAAAGCCATGAAGGCTGGAGCATTAGCC  
ACCATTCCACTTGGTGGCATGATCAGTGATATCTTAGAGAATCTGGATGAAACATTCATCTCTACAGGT  
CTTACTTTGGGCTGGATGATGCTTCACTGGAAAACATTGCCAGGATTTGAACATGTCTGTGGATGACTT  
CAAGGTACACCTTCGATTTCCCCATTTGTTTGCAGAACAATGATGAGTCCCTAGAAGACAAGCTATTT  
AAATATATCAAACACATTTCTTCAGTACTGGTGGCCAGTCGCTGCAGTCACTTACTATCGCATGGCTT  
ATTATTTGCAGAAATCTTTCTTGATACTGCAGCCAATGATGCCATAGCTCTTCTGAATAGTAAAGCACT  
TTTTGAGAAGAAGGTGGGACCATATATCTGAGCCCCCGAGTACTGGGAAGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206553 protein sequence  
Red=Cloning site Green=Tags(s)

MAWASSFDAFFKNFKRESKIISEYDITLIMTYIEENKLQKAVSVIEKVLRLDIESAPLHIAVTGETGAGKS  
 TFINTLRGVGHEEKGAAPTGAIEITMKRTPYHPKLPNVTIWDLPGIGTTFNTPQNYLTEMKFGEYDFFI  
 IISATRFKENDAQLAKAIAQMGMNFYFVRTKIDSDLNEQKFPKPSFNKKEEVLKNIKDYCSNHLQESLDS  
 EPPVFLVSNVDISKYDFPKLETKLLQDLPAHKRHVFSLSLQSLTEATINYKRDSLKQKVFLEAMKAGALA  
 TIPLGGMISDILENLDEFNLYRSYFGLDDASLENIAQDLNMSVDDFKVHLRFPHLFAEHNDESLEDKLF  
 KYIKHISSVTGGPVAAVTYRMYLQNLFLDTAANDAIALLSKALFEKKVGPYISEPPEYWEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_011579

**ORF Size:** 1248 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\\_011579.1](#), [NM\\_011579.2](#), [NM\\_011579.3](#), [NP\\_035709.2](#), [NP\\_035709.3](#)

**RefSeq Size:** 2809 bp

**RefSeq ORF:** 1248 bp

**Locus ID:** 21822

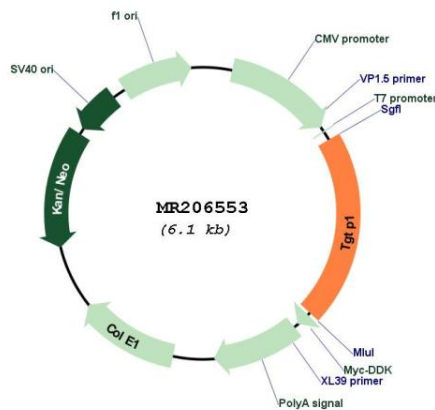
**UniProt ID:** [Q62293](#)

**Cytogenetics:** 11 B1.2

**MW:** 47.1 kDa

**Gene Summary:** Involved in innate cell-autonomous resistance to intracellular pathogens, such as *Toxoplasma gondii*. During avirulent type II *T. gondii* infection, recruited to the parasitophorous vacuole (PV) membrane, leading to PV vesiculation and rupture, and subsequent digestion of the parasite within the cytosol (PubMed:19265156, PubMed:24563254). Not recruited to virulent type I *T. gondii* PV membrane (PubMed:19265156). May confer an antiviral state for vesicular stomatitis virus (PubMed:9725230).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206553