

Product datasheet for **MG206553**

Tgtp1 (NM_011579) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tgtp1 (NM_011579) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tgtp1
Synonyms:	Gtp2; Irgb6; Mg21; Tgtp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206553 representing NM_011579 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTGGGCTCCAGCTTTGATGCATTCTTTAAGAATTTAAAAGGAAAGCAAATCATCTCTGAAT
ATGACATCACCTTGATTGACTTACATAGAGGAAAATAAGCTACAGAAAGCTGTTTCTGTAATTGAAA
GGTACTGAGAGACATCGAGAGTGTCTCTGCACATAGCTGTGACAGGGGAAACAGGCGCAGGAAAGTCC
ACTTTTCATCAATACCCTGAGGGGGTGGGCGATGAAGAAAAGGTGCAGCCCCACTGGCGCAATAGAGA
CAACCATGAAGAGAACTCCATACCCACACCCAAAGCTTCCAACGTGACAATATGGGACCTGCCTGGCAT
TGGGACCACTAATTCACACCACAAAATCTGACAGAAATGAAGTTTGGTGAGTACGACTTCTTCATT
ATCATCTCAGCTACAGTTTCAAAGAAAATGATGCACAACCTGGCCAAAGCCATTGCACAGATGGGGATGA
ATTTCTACTTTGTGAGAACAAGATAGACAGCGACTTAGATAATGAACAGAAAGTTAAGCCTAAGAGTTT
CAATAAGGAGGAAGTCTCAAGAATATTAAGGATTACTGCTCTAATCATCTTCAGGAGTCTCTCGACAGT
GAGCCTCCAGTCTTCTAGTCTTAACGTTGATATATCGAAGTATGACTTCCCAAAGCTGGAAACTAAAC
TCCTACAGGATCTCCAGCCACAAGCGCCACGCTTCTCACTGTCTTTGCAAAGTCTTACTGAGGCCAC
CATTAACTACAAGAGAGATTCCCTGAAGCAAAAAGTCTTCTAGAAAGCCATGAAGGCTGGAGCATTAGCC
ACCACTCCACTTGGTGGCATGATCAGTGATATCTTAGAGAATCTGGATGAAACATTCATCTCTACAGGT
CTTACTTTGGGCTGGATGATGCTTCACTGGAAAACATTGCCAGGATTTGAACATGTCTGTGGATGACTT
CAAGGTACACCTTCGATTTCCCCATTTGTTTGCAGAACAATGATGAGTCCCTAGAAGACAAGCTATTT
AAATATATCAAACACATTTCTTCAGTACTGGTGGCCAGTCGCTGCAGTCACTTACTATCGCATGGCTT
ATTATTTGCAGAAATCTTTCTTGATACTGCAGCCAATGATGCCATAGCTCTTCTGAATAGTAAAGCACT
TTTTGAGAAGAAGGTGGGACCATATATCTGAGCCCCCGAGTACTGGGAAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206553 representing NM_011579
 Red=Cloning site Green=Tags(s)

MAWASSFDAFFKNFKRESKIISEYDITLIMTYIEENKLQKAVSVIEKVLRLDIESAPLHIAVTGETGAGKS
 TFINTLRGVGHEEKGAAPTGAIEITMKRTPYHPKLPNVTIWDLPGIGTTFNTPQNYLTEMKFGEYDFFI
 IISATRFKENDAQLAKAIAQMGMNFYFVRTKIDSDLNEQKFKPKSFNKEEVLKNIKDYCSNHLQESLDS
 EPPVFLVSNVDISKYDFPKLETKLLQDLPAHKRHVFSLSLQSLTEATINYKRDSLKQKVFLEAMKAGALA
 TIPLGGMISDILENLDETFNLYRSYFGLDDASLENIAQDLNMSVDDFKVHLRFPFLFAEHNDESLEDKLF
 KYIKHISSVTGGPVAAVTYRMAYYLQNLFLDTAANDAIALLSKALFEKKVGPYISEPPEYWEA

TRTRPLE - GFP Tag - V

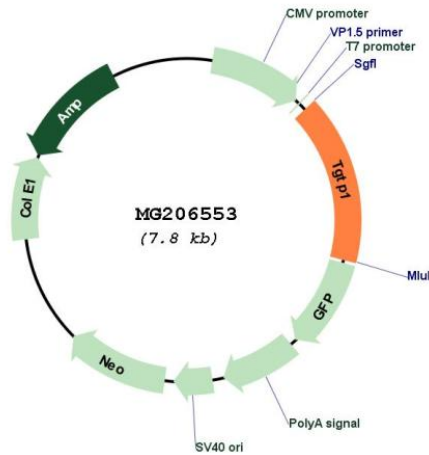
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_011579

ORF Size:	1245 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:	<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:	NM_011579.2 , NP_035709.2
RefSeq Size:	2810 bp
RefSeq ORF:	1248 bp
Locus ID:	21822
UniProt ID:	Q62293
Cytogenetics:	11 B1.2
Gene Summary:	Involved in innate cell-autonomous resistance to intracellular pathogens, such as <i>Toxoplasma gondii</i> . During avirulent type II <i>T. gondii</i> 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 <i>T. gondii</i> PV membrane (PubMed:19265156). May confer an antiviral state for vesicular stomatitis virus (PubMed:9725230).[UniProtKB/Swiss-Prot Function]