

## Product datasheet for **MG208363**

### Trim27 (NM\_009054) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trim27 (NM_009054) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trim27
Synonyms:	AW538890; Gm19403; Rfp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208363 representing NM\_009054  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTCCGGGAGCGTGGCCGAGTGCCTGCAGCAGGAGACCACCTGCCCGTGTGCCTTCAGTACTTCG  
 TGGAGCCTATGATGCTCGACTGCGGCCACAACATCTGTTGCGCGTGCCTGGCCCGCTGCTGGGGTGCCGC  
 GGAGACTAACGTGTCGTGTCGCACTGCGGAGACCTTCCCGCAGCGCCACATGCGACCCAACCGGCAC  
 CTGGCCAACGTGACCCAGCTGGTGAAGCAGCTGCGCACCGAGCGGCCGTCGGGGCCCGCGGCGAGATGG  
 GCGTGTGCGAGAAGCACCAGGAGCCTCTGAAGCTGTACTGCGAGCAGGACCAGATGCCCATCTGCGTGGT  
 GTGCGACCGCTCGCGGAGCACCAGCGGCCACAGCGTGTGCCCTGGAGGAGCGGTGGAGGGCTTCAAG  
 GAGCAATCCAGAACCGACTGGACCACCTAAGAAGAGTAAAGACTTGAAGAAGAGACGGCGGCCACAGG  
 GGGAGCAGGCCGAGCTGAGCTTTGAGCCTGACTCAGATGGAGAGGGAAAAAATGTCTGGGAGTTTGA  
 GCAGCTCTACTCGTGAAGGAGCATGAGTACCGCCTGTTGGCTCGCCTTGAGGAGCTCGACTTGGCC  
 ATCTATAACAGCATCAACGGGGCCATCACTCAGTTCTCCTGCAACATCTCCACCTCAGTGGCCTGATTG  
 CCCAACTGGAAGAGAAGCAGCAGCAGCCACGCGGGAGCTTTACAGGACATTGGAGACACACTGAGCAG  
 GGCTGAAAGAATCAGGATCCCTGAGCCCTGGATCACACCCAGATCTACAAGAGAAAAATCCATATTTTT  
 GCCAAAAATGTCTGTTTTGACAGAAAGTCTAAAACAGTTTACAGAAAAGATGCAGTCAGATATGGAGA  
 AGATCCAAGAGTTGAGAGAGGCTCAGTTACTCAGTTGATGTAAACCCTGGACCCAGACACAGCCTATCC  
 CAGTCTGATTCTTTCTGATAATCTTCGCAAGTACGGTACAGTTACCTCCAGCAGGATCTCCAGACAAC  
 CCTGAGCGATTCAATCTGTTCCCTGTGTCTTGGGCTCTCCATGTTTTCATCGCTGGGAGACATTACTGGG  
 AGGTAGAGGTGGGAGATAAAGCCAAGTGGACCATAGGTGTCTGTGAAGACTCGGTGTGCAGAAAAGTGG  
 GGTGACCTCAGCCCCCAGAATGGATTCTGGGAGTGTGATTGTGGTATGGGAAAGAATATTGGGCTCTT  
 ACATCCCCAATGACTGCACTACCCCTGCGGACCCCTCTCCAGAGAGTAGGGATTTTCTTGGACTATGATG  
 CTGGTGAAGTTTCTTCTACAATGTGACAGAGAGATGCCATACCTTTACTTTCTCTCACGCTACCTTCTG  
 TGGGCCAGTCCGGCCCTACTTCAGCCTAAGCTACTCGGGAGGGAAGAGCGCAGCTCCTTTGATCATCTCG  
 CCTATGAGTGGGATTGATGGTTTTCTGGCCATGTTGGGAATCATGGTATTCCATGGAGACCTCTCCG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208363 representing NM\_009054  
 Red=Cloning site Green=Tags(s)

MASGSVAECLQQETTCPVCLQYFVEPMMLDCGHNICCACLARCWAAETNVSCPQCRETFPQRHMRPNRH  
 LANVTQLVKQLRTERPSGPGGEMGVCEKHREPLKLYCEQDQMPICVVCDRSREHRGHSVLPLEEAVEGFK  
 EQIQNRDLHLLRRVKDLKRRRAQGEQARAELLSLTQMEREKIVWEFEQLYHSLKEHEYRLRLARLEELD  
 IYNSINGAITQFSCNISHLSGLIAQLEEKQQPTRELLQDIGDLSRAERIRIPEPWITPPDLQEKIHIF  
 AQKCLFLETSLKQFTEKMQSDMEKIQELREAQLYSVDVTLDPDTAYPSLILSDNLRQVRYSYLQQDLDPN  
 PERFNLFPCVLGSPCFIAGRHYWEVEVGDKAKWTIGVCEDSVCRKGGVTSAPQNGFWAVSLWYGKEYWAL  
 TSPMTALPLRTPLRVGIPLDYDAGEVSFYNVTERCHTFTFSHATFCGPVPRPYFSLSYSGGKSAAPLIIC  
 PMSGIDGFSGHVGNHGHSMETSP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

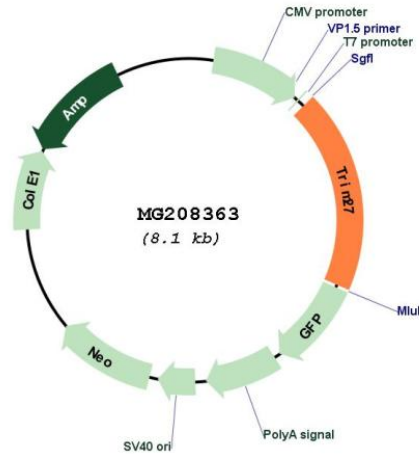
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_009054

ORF Size: 4201 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\\_009054.3](#), [NP\\_033080.2](#)

**RefSeq Size:** 2329 bp

**RefSeq ORF:** 1542 bp

**Locus ID:** 19720

**UniProt ID:** [Q62158](#)

**Cytogenetics:** 13 7.67 cM

**Gene Summary:** E3 ubiquitin-protein ligase that mediates ubiquitination of PIK3C2B and inhibits its activity; mediates the formation of 'Lys-48'-linked polyubiquitin chains; the function inhibits CD4 T-cell activation. Acts as a regulator of retrograde transport: together with MAGEL2, mediates the formation of 'Lys-63'-linked polyubiquitin chains at 'Lys-220' of WASHC1, leading to promote endosomal F-actin assembly. Has a transcriptional repressor activity. Induces apoptosis by activating Jun N-terminal kinase and p38 kinase and also increases caspase-3-like activity independently of mitochondrial events. May function in male germ cell development. Has DNA-binding activity and preferentially bound to double-stranded DNA.[UniProtKB/Swiss-Prot Function]