

Product datasheet for **MG204691**

Tmem59 (NM_029565) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem59 (NM_029565) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem59
Synonyms:	1110001M20Rik; 3110046P06Rik; AI256529; D4ErtD20e; MTDCF1; ORF18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204691 representing NM_029565 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGCAAAGGGGAAGCTTTGGGTCCAGGCCAACTGGGGCTCCCGCGCTGCTGCTGTTGACTA
TGGCGCTGGCCGGAGGCTCGGGGACTGCAGCGGCCGAAGCCTTTGACTCGGTCTGGGAGACACAGCGTC
CTGTACCAGGCTGTGAGCTGACCTACCCCTGCACACCTACCCGAAGGAAGAGGAGTTATACGCATGC
CAGAGAGGCTGCAGGCTGTTTTCAATTTGCCAGTTTGTGGATGATGGGCTTGATTTAAATCGACCAAGC
TGAATGTGAATCTGCGTGCACAGAAGCATATTTCCCAACCTGATGAGCAGTATGCTTGTATCTTTGGCTG
CCAGGATCAGTTGCCATTTGCTGAACTGAGACAAGAACAACCTCATGTCCCTGATGCCAAGAATGCATCTC
CTCTTCCCTCTGACTCTGGTGAGGTCGTTCTGGAGTGACATGATGGACTCTGCACAGAGCTTCATAACCT
CTTCATGGACTTTTTATCTTCAAGCCGATGACGGAAAAATAGTTATATTCCAGTCTAAGCCAGAAATTC
GTATGCACCGCAGTTGGAGCAGGAGCCTACAACTTGAGAGAAATCATCTTTAAGCAAAATGTCCTATCTG
CAGATGAGAACTCACAAGCACACAGGAACCTTGAAGAGGAAGAAAGCGATGGCTTTTTAAGATGTC
TATCTCTAACTCTGGATGGATTTAACCACAACCCTTGTCTCTCGGTGATGGTGTGCTCTGGATCTG
TTGTGCAGCTGTTGCTACAGCTGTAGAACAGTATGTTCCCTGAGAAGCTGAGTATCTATGGTACTTG
GAATTTATGAATGAACAAAAGCTGAGCAGATACCCAGCTCCTTCTTTGATTGTTAGGTCTCAGACTG
AAGAACATGAGGAGGCAGGGCCCTGCCACCAAGGTGAACCTTGCTCACTCAGAAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204691 representing NM_029565
 Red=Cloning site Green=Tags(s)

MAAPKGLWVQAQLGLPPLLLLTMALAGGSGTAAAEAFDSVLGDTASCHRACQLTYPLHTYPKEEELYAC
 QRGRLFSTICQFVDDGLDLNRTKLECESACTEAYSQPDEQYACHLGCQDQLPFAELRQEQLMSLMPRMHL
 LFPLTLVRSFWSMDMSAQSFITSSWTFYLQADDGKIVIFQSKPEIQYAPQLEQEPTNLRESSLSKMSYL
 QMRNSQAHRNYLEEEESDGLRCLSLNSGWILTTTLVLSVMVLLWICCAAVATAVEQYVPPPEKLSIYGDL
 EFMNEQKLSRYPPAPSLVIVRSQTEEHHEEAGLPPTKVNLAHSEI

TRTRPLE - GFP Tag - V

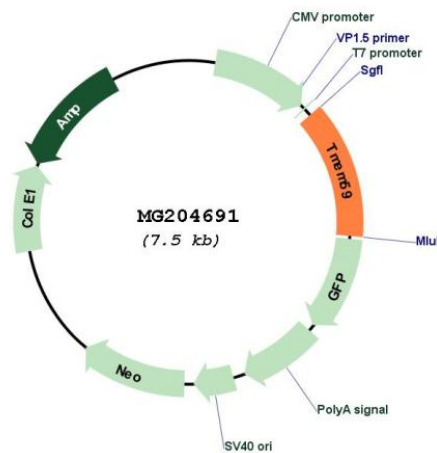
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_029565

ORF Size: 969 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_029565.3
RefSeq Size:	1532 bp
RefSeq ORF:	972 bp
Locus ID:	56374
UniProt ID:	Q9QY73
Cytogenetics:	4 50.12 cM
Gene Summary:	Acts as a regulator of autophagy in response to S.aureus infection by promoting activation of LC3 (MAP1LC3A, MAP1LC3B or MAP1LC3C). Acts by interacting with ATG16L1, leading to promote a functional complex between LC3 and ATG16L1 and promoting LC3 lipidation and subsequent activation of autophagy. Modulates the O-glycosylation and complex N-glycosylation steps occurring during the Golgi maturation of several proteins such as APP, BACE1, SEAP or PRNP. Inhibits APP transport to the cell surface and further shedding. [UniProtKB/Swiss-Prot Function]