

Product datasheet for **MG201624**

Tmem47 (NM_138751) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmem47 (NM_138751) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tmem47
Synonyms: 3010015F07Rik; AI115536; BCMP1; Tm4sf10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201624 representing NM_138751
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTTCGGCTGGCAGCGGCATGGAAGAGGTGCGAGTGTGGTGTGACCCCGCTCAAGCTGGTCGGGC
 TGGTGTGCATCTTCTGGCGCTGTGTCTGGATCTGGGAGCTGTTCTGAGCCCGCCTGGGTCACCGCGGA
 CCACCAGTACTACCTGTCCCTGTGGGAGTCTGCCGAAACCCGCCAACCTGGATATCTGGCATTGCGAA
 TCCACTCTGGCAGCGATTGGCAGATTGCTACTCTGGCTTACTCTGGCGGTGCTGCCATCATTCTCA
 TTGCATTCTGGTGGGTTTGATTCAATCTGTGTGGGATCACGAAGGCGCTTCTACAGACCTGTTGCTGT
 CATGCTTTTGCAGCAGTTGTTTGCAGGTCTGCAGCCTGGTTCTTTATCCAATCAAGTTCAATTGAACT
 GTGAGCTTGAAAATTTACCACGAGTTCAATTGGGTTATGGCCTGGCCTGGGGTGAACCTATATTTTCAT
 TTGGGGTGCCATTCTTTATTGCCTGAACCCTAAGAACTATGAAGACTACTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201624 representing NM_138751
 Red=Cloning site Green=Tags(s)

MASAGSGMEEVRVSVLTPCLKVGLVLCIFLALCLDLGAVLSPAWTADHQYYLSLWESCRKPANLDIWHCE
 STLGSDWQIATLALLLGGAAIILIAFLVGLISICVGSRRRFYRPVAVMLFAAVVLQVCSLVLYPIKFIET
 VSLKIYHEFNWGYGLAWGATIFSFGGAILYCLNPKNYEDYY

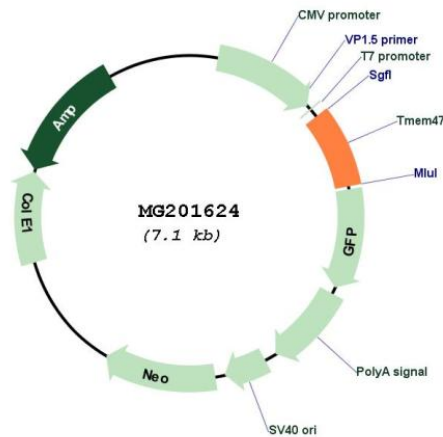
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_138751

ORF Size: 543 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:	<u>NM_138751.2</u> , <u>NP_620090.1</u>
RefSeq Size:	4082 bp
RefSeq ORF:	546 bp
Locus ID:	192216
UniProt ID:	<u>Q9JIG6</u>
Cytogenetics:	X B
Gene Summary:	Regulates cell junction organization in epithelial cells. May play a role in the transition from adherens junction to tight junction assembly. May regulate F-actin polymerization required for tight junctional localization dynamics and affect the junctional localization of PARD6B (PubMed:26990309). During podocyte differentiation may negatively regulate activity of FYN and subsequently the abundance of nephrin (PubMed:21881001).[UniProtKB/Swiss-Prot Function]