

## Product datasheet for **MG214372**

### **Tmem87b (NM\_028248) Mouse Tagged ORF Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	TurboGFP
<b>Symbol:</b>	Tmem87b
<b>Synonyms:</b>	2610301K12Rik; 2810431I02Rik; AU014804
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-AC-GFP (PS100010)
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)



**ORF Nucleotide Sequence:** >MG214372 representing NM\_028248  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCTGCCGCTGTGGTCTGAGGCTGGCTCCTCCAGCCTCCTCTGCCGCGGCCCGCCGGGGCC  
 AGCTGCTGCGAGTTGCCCTGTGTCTCCTGTGCTGGGTCCCGCGGCTGTGGACGCAGTCCCGGAGCTCGG  
 GCTTTGGACGAGGACGGTCAATGACAAATCAGGACCTTTGGTATTAGGAAAATATGTTTAACTACT  
 GAGATCAAGTTTTCTGTGAAGTCGTTCAAGTTGTTCTGGACCTGTGAAGTTACCATAGAGTGGCATTGGA  
 AGTATCATACTGTACAATGATTACCCTGATCTGGAGGAGAGCTGTCCCAAAGACATGAATTCATGC  
 TGATCCAGATGTCTGTGCTTACTTCAAAAACATTGACTGTTGGACAACAAAAAGTGAAGAACTGGATTGC  
 AGCAGTGATTACAGGCATTTCCCTCATTGAATAATAAAGAACTAACAGGTATCAGAAAACATTTCAAGCC  
 AGGAAGGATCAACGGATGTTGTAGCCAGGACCCAGAAAGATGGCTTCCATATCTTCATTGTTTCTATTAA  
 AACGGAGAAAACAGATGCAGTCTGGGATTTAAATGTTTCTCTTTCTATGGTGGTCCCTCATGGGTACATC  
 TCTGCATCAGACTGGCCTCTCATGATTTTTATATGGTGATGTGTATCGTTTACATATTATATGGTGCC  
 TCTGGCTGCTGTGGTCTGCCTGTTACTGAAAAGATATATTAAGAATTCAGTTCTGGATTGCAGCTGTTAT  
 TTTCTAGGAATGCTTGAAGGCAGTTTTTTATAGTGAATACAAAACATCAACAGCACTGGAGTGCA  
 ACTCAAGTTTTACTGATATTTGCAGAGCTGATATCTGCAGTTAAGAGGACATTGGCTCGCCTGCTTGTGA  
 TCAATGTGAGCTTGGTTATGGCATTGTGAAGCCTCGCTTAGGAACAGTGATGCACCGGGTATTGGACT  
 GGGACTGCTTACTTGTACTTTCAGCCATTGAAGGCGTCATGAGAGTCATCGGGGTTCTAAACATTTA  
 GCTGTTGTTTTGACTGACATGTTTTAGCAGTTATTGACTCCATTTTTGTGGTTCATTTTTATAAGTT  
 TGGCACAGACTATGAAGACTCTAAGGCTAAGAAAGAACACAGTGAATTTTCATTGTATAGGCATTTTAC  
 AAATACACTCATCTTTCAGTCTGGCTTCTATAGTGTATGGTGGACAACAAAGACCTTCAGGATC  
 GCAAAATGCCAATCAGACTGGATGGAGCTGTGGTTGACGATGCGTTTTGGAGCTTCCTCTTTTCAGTCA  
 TCCTTATTGTGATAATGTTCTTATGGAGGCCGTCAGCAAAATACAGAGGTATGCCTTCATGCCCTTGAT  
 AGATGACTCTGATGATGAAGTCGAGGAATTCATGGTAACATCTGAAAATTTAACTGAGGGAATAAACTA  
 AGAGCCTCAAAAACGGTTTTCAAACGGAACAGCTAAACCTACGCTCTGATAATTTTGTGAAAGATTTGAAGT  
 GGGTGGAAAGAAAACATTCCTCTCGTTCCAGATGTAGCTCTCCAGTGTAGTGGACTCAGATGAGGA  
 AATTATGACCAGATCTGAAATAGCTGAAAAATGTTCTCTTCAGAAAAGATAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG214372 representing NM\_028248  
 Red=Cloning site Green=Tags(s)

MAAACRSEAGLLPSLLCRRPAGAQLLRVALCLLCWVPAAVDAVPELGLWTRTVNDKSGPLVFRKTMFNST  
 EIKFSVKFSFSCSGPVKFTIEWHLKYHTCHNDYPDLEEEELSQRHELHADPDVCAVFKNIDCWTTKSENLD  
 SSDSQAFPSLNNKELTGIRNISSQEGSTDVVARTQKDFHIFIVSIKTEKTDVWDLNVSLSMVGPVHYI  
 SASDWPLMIFYMVMCIVYILYGVLLWSACYWKDILRIQFWIAAVIFLGMLEKAVFYSEYQININSTGLS  
 TQGLLIFAEELISAVKRTLARLLVIIIVSLGYGIVKPRLGTMHRVIGLGLLYLIFAAIEGVMRVIGGSKHL  
 AVVLTDIVLAVIDSIFVWFIFISLAQTMKTLRLRKNVYKFSLYRHFTNTLIFAVLASIVFMVWTTKTFRI  
 AKCQSDWMELWDDAFWSFLFSVILIVIMFLWRPSANNQRYAFMPLIDDSDEVEEFMVTSENLETEGKIL  
 RASKTVSNGTAKPTSDNFDEDLKWVEENIPSSF TDVALPVLVDSDEEIMTRSEIAEKMFSSSEKIM

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_028248

**ORF Size:** 1665 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.

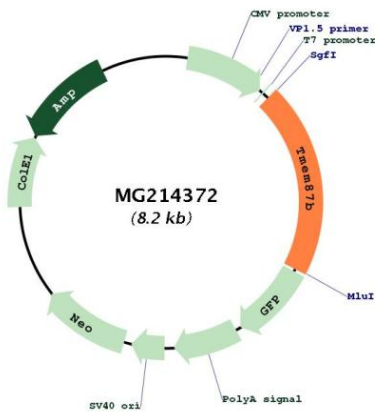
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_028248.2](#), [NP\\_082524.2](#)

**RefSeq Size:** 4631 bp

**RefSeq ORF:** 1668 bp  
**Locus ID:** 72477  
**UniProt ID:** [Q8BKU8](#)  
**Cytogenetics:** 2 F1  
**Gene Summary:** May be involved in retrograde transport from endosomes to the trans-Golgi network (TGN).  
 [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG214372