

Product datasheet for **MG201535**

Tmem97 (BC018156) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmem97 (BC018156) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tmem97
Synonyms: RP23-399H5.9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201535 representing BC018156
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGGCCCTGGCAGCTAGGCGCTGTGTCGAGTGGCTCTTGGGCTCTACTTCGTCTCGCACATCCCCA
 TCACGCTGTTTCATCGACCTGCAGCGGTGCTGCCGCCGAACATAACCCGAGGAGTTCAGCAACCTGTT
 GCGGTGGTACTCAAAGGAGTTCAAAGACCTCTGATGCAGGAGCCCCAGTGTGGTTCAAGTCTTCCTG
 CTCTGTGAGCTTGTGTTCCAGTCGCTTTCTTTCCATTGCGGCATATGCCTTCTCAAAGGAAGCTGCC
 GGTGGATCCGAATCCCTGCAATCATCTATGCAGCTCACACCATAACGACTTTAATCCAATCCTCTACAC
 ACTCCTGTTTGGGATTTCTCTAAAGCCGTTGCTTTCAAGGGACAAAGACCCGAGAGTTTCCGTGAACGA
 CTGACCCTCGTAGGTGTCTACGCCCCCTATTTAATAATCCCCCTCATACTCCTCCTGTTTCATGCTTCGGA
 ACCCGTACTACAAGTATGAGGAGAAAAGAAAGAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201535 representing BC018156
 Red=Cloning site Green=Tags(s)

MGALAARRCVWLLGLYFVSHIPITLFDLQAVLPPELYPQEFNLLRWYSKEFKDPLMQEPPVWFKSFL
 LCELVFQLPFFPIAAYAFFKGSRWIRIPAIYYAHTITTLIPILYTLLFEDFSKAVAFKQRPESFRER
 LTLVGVYAPYLIPLILLFMLRNPYYKYEEKRKKK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: BC018156

ORF Size: 530 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>BC018156</u> , <u>AAH18156</u>
RefSeq Size:	1347 bp
RefSeq ORF:	530 bp
Locus ID:	69071
Cytogenetics:	11 46.74 cM
Gene Summary:	Intracellular orphan receptor that binds numerous drugs and which is highly expressed in various proliferating cells. Corresponds to the sigma-2 receptor, which is thought to play important role in regulating cell survival, morphology and differentiation. May play a role as a regulator of cellular cholesterol homeostasis. May function as sterol isomerase. May alter the activity of some cytochrome P450 proteins.[UniProtKB/Swiss-Prot Function]