

Product datasheet for **MG201997**

2610002M06Rik (NM_025921) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: 2610002M06Rik (NM_025921) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: 2610002M06Rik
Synonyms: 8430408J07Rik; A1876413; Chmp1b2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201997 representing NM_025921
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCAACATGGAGAAACACTTATTTAACTTGAAGTTTCTGCAAAAGAACTTAATAGGAATGCCAAGA
 AGTGTGATAAAGAAGAAAAAGCTGAAAAGGCCAAGATAAAAAAGGCCATTCAGAAGGCCAATACAGAAGT
 TGCAAGAATACATGCTGAAAATGCAATCCGTCAGAAAAACCAAGCAATCAATTTCTGAGAATGAGTGCT
 AGGTTTGTGCTGTGGCAGCCAGAGTTCAACTGCAGTAACAATGGCAAGGTGACAAAAATCCATGGCAG
 GTGTAGTTAAATCTATGGATGCTACATTGAGGAGTATGAACCTTGAGAAGATTTCTGCCTTAATGGACAA
 ATTTGAACATCAGTTTGAACATTGGATGTTGAGACACAGCAAAATGGAAGATACAATGAGTAGCACTACT
 ACCCTTACGACACCACAGAACCAAGTGGATATGCTGCTCCAGGAAATGGCAGATGAAGCTGGCCTCGATC
 TCAATATGGAACACCACAGGGTCAGACAGGGTCTGTTGGTGCAAGTGTGCTTCTACAGAGCAGGATGA
 ACTGTCACAGAGGCTTCTCGTCTTCGTGATCAAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201997 representing NM_025921
 Red=Cloning site Green=Tags(s)

MSNMEKHLFNLKFAAKELNRNAKKCDKEEKAIEKAIKKAIQKGNTEVARIIHAENAIRQKNQAINFLRMSA
 RVDAAVARVQTAVTMGKVTSMAGVVKSMDATLRSMNLEKISALMDKFEHQFETLDVQTQQMEDTMSSTT
 TLTPQNQVDMLLQEMADEAGLDLNMELPQGQTGSVGSVASTEQDELSQLRLARLRDQV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_025921

ORF Size: 597 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_025921.3](#)

RefSeq Size: 1197 bp

RefSeq ORF: 600 bp

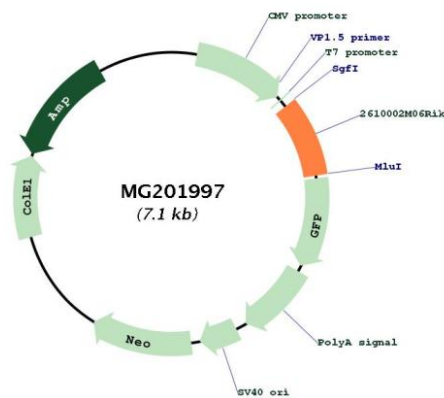
Locus ID: 67028

UniProt ID: [Q9CQD4](#)

Cytogenetics: X D

Gene Summary:

Probable peripherally associated component of the endosomal sorting required for transport complex III (ESCRT-III) which is involved in multivesicular bodies (MVBs) formation and sorting of endosomal cargo proteins into MVBs. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. The MVB pathway appears to require the sequential function of ESCRT-O, -I, -II and -III complexes. ESCRT-III proteins mostly dissociate from the invaginating membrane before the ILV is released. The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis. ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4. Involved in cytokinesis. Involved in recruiting VPS4A and/or VPS4B and SPAST to the midbody of dividing cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MG201997