

Product datasheet for **RG201377**

AP2M1 (NM_001025205) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP2M1 (NM_001025205) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AP2M1
Synonyms:	AP50; CLAPM1; MRD60; mu2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201377 representing NM_001025205 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTGGAGGCTTATTCATCTATAATCACAAAGGGGGAGGTGCTCATCTCCCGAGTCTACCGAGATGACA
TCGGGAGGAACGCAGTGGATGCCTTCGGGTCAATGTTATCCATGCCCGGCAGCAGGTGCGCAGCCCGT
CACCAACATTGCTCGCACCAGCTTCTCCACGTTAAGCGGTCCAACATTTGGCTGGCAGCAGTACCAAG
CAGAATGTCAACGCTGCCATGGTCTTCAATTCTCTATAAGATGTGTGACGTGATGGCTGCCTACTTTG
GCAAGATCAGCGAGGAAAACATCAAGAACAATTTGTGCTCATATATGAGCTGCTGGATGAGATTCTAGA
CTTTGGCTACCCACAGAATTCGAGACAGCGCGCTGAAAACCTTCATCACGCAGCAGGGCATCAAGAGT
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AGGGTATCAAGTATCGTCGGAATGAGCTTCTCGGATGTGCTGGAGAGTGTGAACCTGCTCATGTCCCC
ACAAGGGCAGGTGCTGAGTGCCCATGTGTGGGCGGGTGGTGTGAAGAGCTACCTGAGTGGCATGCC
GAATGCAAGTTTGGGATGAATGACAAGATTGTTATTGAAAAGCAGGGCAAAGGCACAGCTGATGAAACAA
GCAAGAGCGGGAAGCAATCAATTGCCATTGATGACTGCACCTCCACCAGTGTGTGCGACTCAGCAAGTT
TGACTCTGAACGCAGCATCAGCTTATCCCGCCAGATGGAGAGTTGAGCTTATGAGGTATCGCACAAAC
AAGGACATCATCCTTCCCTTCCGGTGATCCCGCTAGTGGCAGGAAGTGGGACGCACCAAACTGGAGTCA
AGGTGGTCAATCAAGTCCAATTTAAACCTCACTGCTGGCTCAGAAGATCGAGGTGAGGATCCCAACCCC
ACTGAACACAAGCGGGTGCAGGTGATCTGCATGAAGGGGAAGGCCAAGTACAAGGCCAGCGAGAATGCC
ATCGTGTGGAAGATCAAGCGCATGGCAGGCATGAAGGAATCGCAGATCAGCGCAGAGATTGAGCTTCTGC
CTACCAACGACAAGAAGAAATGGGCTCGACCCCATTTCCATGAACTTTGAGGTGCCATTGCGGCCCTC
TGGCTCAAGGTGCGCTACTTGAAGGTGTTTGAACCGAAGCTGAACTACAGCGACCATGATGTCATCAA
TGGGTGCGCTACATTGGCCGAGTGGCATTATGAAACTCGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201377 representing NM_001025205
Red=Cloning site Green=Tags(s)

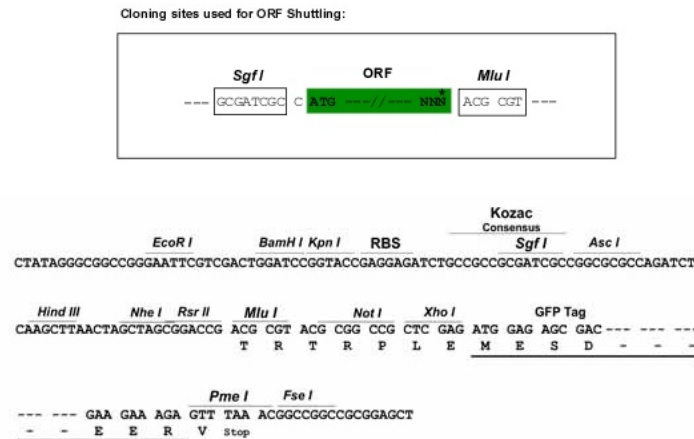
MIGGLFIYNHKGEVLISRVYRDDIGRNAVD AFRVNVIHARQQVRSPTNIARTSFFHVKRSNIWLAAVTK
 QNVNAAMVFEFLYKMCVMAAYFGKISEENIKNNFVLIYELLDEILDFGYPQNSSETGALKTFITQQGIKS
 QHQTKEEQSQITSQVTGQIGWRREGIKYRRNELFLDVLESVNLMLSPQGQVLSAHVSGRVVMKSYLSGMP
 ECKFGMNDKIVIEKQKGTADETSKSGKQSIADDCTFHQCVRLSKFDSESRISFIPPDGEFELMRVRTT
 KDIIILPFRVIPLVREVGRTKLEVKVVIKSNFKPSLLAQKIEVRIPTPLNTSGVQVICMKGKAKYKASENA
 IYVWIKRMAGMKESQISAEIELLPTNDKKKWARPPISMNFVVPFAPSGLKVRYLKVFEPLNYSDDHVIK
 WVRYIGRSGIYETRC

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001025205

ORF Size: 1305 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_001025205.1](#), [NP_001020376.1](#)

RefSeq Size: 1952 bp

RefSeq ORF: 1302 bp

Locus ID: 1173

UniProt ID: [Q96CW1](#)

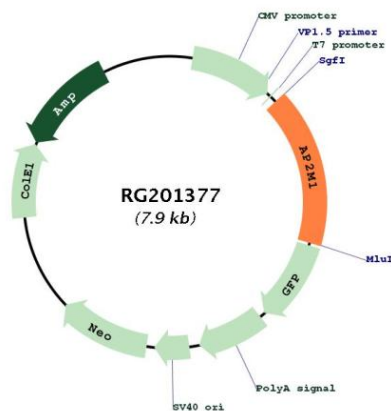
Cytogenetics: 3q27.1

Protein Families: Druggable Genome

Protein Pathways: Endocytosis, Huntington's disease

Gene Summary: This gene encodes a subunit of the heterotetrameric coat assembly protein complex 2 (AP2), which belongs to the adaptor complexes medium subunits family. The encoded protein is required for the activity of a vacuolar ATPase, which is responsible for proton pumping occurring in the acidification of endosomes and lysosomes. The encoded protein may also play an important role in regulating the intracellular trafficking and function of CTLA-4 protein. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RG201377