

## Product datasheet for **MG210836**

### Ap1g1 (BC054535) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ap1g1 (BC054535) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ap1g1
Synonyms:	AA409002; Adtg; AU041323; AW551707; D8Ertd374e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210836 representing BC054535  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAGCCCCATCAGATTGCGGGAGCTGATCCGGACCATCCGGACAGCCGAACCAAGCTGAGGAAC  
 GAGAAATGATCCAGAAAGAATGTGCTGCAATCCGGTCTCATTTAGAGAAGAAGACAATACATACCGGTG  
 TCGGAATGTGGCAAAGTTACTATATATGCACATGCTGGGCTACCCCTGCTCACTTTGGACAGTTGGAGTGC  
 CTCAAGCTAATCGCCTCACAAAAATTCACAGACAAACGCATTGGCTATTTAGGAGCAATGCTATTATTAG  
 ATGAAAGACAAGATGTGCATCTTCTCATGACCAACTGTATCAAGAATGATCTTAATCATAGCACGCAGTT  
 TGTGCAGGGGCTAGCACTTTGTACCCTCGGCTGCATGGGCTCCTCGGAGATGTGCAGAGATCTTGCGGGA  
 GAGGTAGAAAAGCTTCTGAAAACCTCCAACCTTACTTAAGAAAAAGGCAGCACTGTGTGCTGTTACG  
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 CATTTTCAGAAAGAATGAAAAGCTTGTGCCCAATTAGTTCGTATTCTAAAGAACCTCATCATGTCCGGAT  
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 CAGAGAGTGGATTGCGAGTTCTAGCCATAAATATCTTGGTGCATTCTTATTGAACAATGACAAAAATAT  
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 AGCACAATTGTGGACTGTCTGAAAGATCTGGATGTCTCCATAAAAAGACGTGCAATGGAATCTGAGTTTG  
 CCTGGTGAATGGGAATAATATCCGAGGCATGATGAAAGAATTACTTTATTTTCTGGATTCTGTGAGCC  
 AGAATTTAAAGCTGATTGTGCATCTGGAATCTTCCCTTGCTGCAGAAAAGTACGCACCTTCCAAACGGTGG  
 CATATAGATACAATTATGCGTGTCTTGACAACGGCAGGAAGTTATGTTCCGCGATGATGCAGTTCCTAACT  
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 CGGTGACTATTCTCAACAACCTTGGTACAAGTGGCTGCGTGGTGTATAGGTGAATATGGCGATCTTCTT  
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 GTGTCCTGATCTAATATGTCCACCTCTGTGACAAGAGGCTATGCTCTCACTGCCATTATGAAGCTGTC  
 TACCCGATTCACCTGTACTGTAAACCGAATTAAGAAAGTGGTTTCCATCTATGGGAGCAGCATCGACGTA  
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 AATGACATCGCTCCAGGCATCCCCTCCATCACAGCGTACAGTAAGAACGGCTTGAAGATAGAGTTACCT  
 TTGAACGGTCAAACCAACCCAGCGTAACAGTGATAACGATACAGGCCCTAACAGCACAGAGCTAGA  
 CATGACGGACTTTGTTTTCCAGGCTGCAGTACCAAGACATTCAGCTGCAGCTTCTGTCTCTCCTAGCAGC  
 AGCGTTGTCCAGCCTTTAATACAGGGACCATCACACAAGTCATTAAGTTCTGAATCCACAGAAGCAAC  
 AGCTGCGAATGCGGATCAAGCTCACATATAATCAAGGGCTCGGCAATGCAAGATCTAGCAGAAGTGAA  
 CAATTTCCCCCTCAGTCTGGCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210836 representing BC054535  
 Red=Cloning site Green=Tags(s)

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MPAPIRLRELIRTIRTARTQAEEREMIQKECAAIRSSFREEDNTYRCRNVAKLLYMHMLGYPAHFGQLEC
LKLIASQKFTDKRIGYLGAMLLLDERQDVHLLMTNCIKNDLNHSTQFVQGLALCTLGCMGSSEMCRDLA
EVEKLLKTSNSYLKKAALCAVHVIRKVPPELMEFLPATKNLLNEKNHGVLHTSVVLLTEMCERSPDMLA
HFRKNEKLVLPQLVRILKNLIMSGYSPEHDVSGISDPFLQVRILRLLRILGRNDDDSSEAMNDILAQVATN
TETSKNVGNAILYETVLTIMDIKSEGLRVLA INILGRFLLNNDKNIRYVALTSLKTVQTDHNAVQRHR
STIVDCLKDLVDVSIKRRAMELSFALVNGNIRGMMKELLYFLDSCEPEFKADCASGIFLAAEKYAPSKRW
HIDTIMRVLTTAGSYVRDDAVPNLIQLITNSVEMHAYTVQRLYKAILGDYSQQPLVQVAAWCIGEYGDLL
VSGQCEEEPIQVTEDEVLDILESVLISNMSTSVTRGYALTAIMKLSTRFTCTVNRKVVSIYSSIDV
ELQQRAVEYNALFKKYDHMRSALLERMPVMEKVTNNGPSEIVQTNGETEPAPLETKPPPSGPQPTSQAND
LLDLLGGNDITPVIPTAPTSKPASAGGELLDLLGDITLTGAPAAAPTASVPQISQPPFLLDGLSSQPLF
NDIAPGIPSITAYSKNGLKIEFTFERSNTNPSVTVITIQASNSTELDMTDFVFQAAVPKTFQLQLLSPSS
SVVPAFNTGTITQVIKVLNPQKQLRMRIKLTYNHKGSA MQDLAEVNNFPPQSWQ
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: BC054535

ORF Size: 2477 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:** [BC054535](#), [AAH54535](#)

**RefSeq Size:** 3916 bp

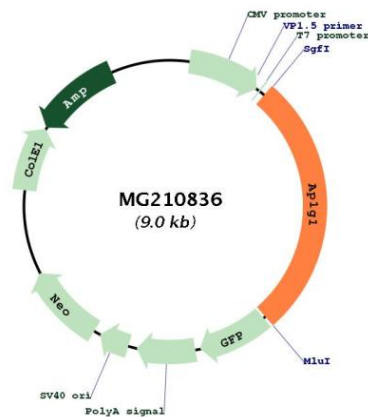
**RefSeq ORF:** 2477 bp

**Locus ID:** 11765

**Cytogenetics:** 8 57.26 cM

**Gene Summary:** Subunit of clathrin-associated adaptor protein complex 1 that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG210836