

## Product datasheet for **MG210676**

### Ap1g2 (NM\_007455) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ap1g2 (NM_007455) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ap1g2
Synonyms:	Adtg; Adtg2; G2ad
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210676 representing NM\_007455  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGTGCATTGCTTGGAGACTTCAGGACCTAATCGAAGAGATTCGCGGGGCCAAGACGCAGGCCCAGG  
 AACGGGAGGTGATCCAGAAGGAGTGCGCCCAAATTCGGGCTCCTTCCGGATGGGGATCCCTGCAGAG  
 GCATCGCCAGCTGGCCAACTGCTCTACGTCCACATGTTGGGCTACCCCGCCACTTTGGACAGATGGAG  
 TGCTGAAACTGATCGCCTCCCCAGATTCACAGACAAGAGGGTGGGCTACCTTGGGGCCATGCTTCTAT  
 TGGATGAGAGGCACGATTCCTCTGCTCATCACCAACAGCATCAAGAATGACCTGAGCCAAGGGAACCA  
 GCCAGTTCAAGGCTGGCCCTGTGTACTCTGAGTACCATGGGCTCTGCTGAGATGTGCCGGGACCTAGCC  
 CCTGAGGTGAAAAGCTGCTTCTGCAGCCAGTCCCTATGTGCGGAAGAAGGCTATTTTACTGCAGTGC  
 ACATGATCCGGAAGGACCCTGAGCTCTCCGGCATCTTCTCCACCTGTACCAAATGCTTCGTGAGCG  
 TCATCATGGCATCCAGCTGGGCACAGTACGCTGATCACGGAGCTCTGTGAAAGAAACCTGCAGCCCTC  
 AGGCACCTTCGCAAGGTAGTGCCGAGCTGGTACAGATCCTCCGACTCTGGTGACTACAGGATACTCCA  
 CGGAGCACAGCATCTCTGGAGTCAGCGACCCCTTCTTGCAGGTCCAGATACTCCGCCTACTTCGGATCCT  
 GGGACGGAACCATGAAGAAAGTAGCGAGACCATGAACGACTTGCTGGCCAGGTGCCACCAACACAGAC  
 ACCAGCCGAAATGCAGGCAACGCTGTCTGTTGGAACAGTGTACCATCATGGCCATCCACTCTGCTG  
 CTGGCCTCCGGGTTCTAGCTGTTAACATCTTGGTCGTTTCTTGCTCAACAATGACAAGAATATTAGGTA  
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 GTGGTGGAGTGTCTACAGGAAACGGACGCTCCCTTAGCAGGCGGGCCCTGGAGCTGAGCCTGGCTCTGG  
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 GACACCATCCTGCAGTCTGACCACGGCAGGAGCCCATGTGAGGGATGACGCAGTGGCCAACTGACCC  
 AGCTGATTGGAGAGGCCGAGGAGCTGCATACCTACTCTGTGCGCCGTCTCTACAGTGCCTTAGCAGAGGA  
 TATCTCCAGCAACCACTGGTTCAGGTGGCAGCCTGGTGCATTGGCGAGTATGGGGACCTCCTGCTGGAA  
 GGTAACTGTGAGGAGACGGAGCCTTTTCAGGTGGAAGAAGAGGACGTGCTAGCACTGCTGGAAAAGGTGC  
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 ACTCCGGGAGACAACAATCGTATTCGCCAGGTGGTGTCCATCTACGGGAGCTGTGTGGACTTAGAGCTG  
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 GGAAGCCTTAATTCATCTCCTTGACCTTCCCTGTACACCGCCACCCCACTCCATCCCCAGTGTGAG  
 AGTGTGTTGAGCGTGAGGGCTACAGCTGGATCTTCTTTCATGCGGCCCTTGGAGACCCCTGCTTTGCTC  
 TTAGTCACTGCCACCACCAACTCCTCAAAGGAGGATGTTACCACTTCGTTTCCAGGCAGCTGTGC  
 CCAAGAGTTTCCAGCTGCAGTTACAGGCCCCAGTGGGAACACAATTCAGCTCAGGGTGGTCTTCCCAT  
 CACCCAGGTCTTCAGAATCCTCAATCCTAACAGGCACCTTTCGACTTAAGCTGCGCCTCACCTACAAC  
 CACTCTGGCCAGCCAGTACAGGAGATCTTTGAGGTGGATAACTTGCTGTGGAGACGTGGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210676 representing NM\_007455  
Red=Cloning site Green=Tags(s)

```
MVVHSLRLQDLIEEIRGAKTQAQEREVIQKECAQIRASFRDGDPLQRHRQLAKLLVYHMLGYPAHFGQME
CLKLIASPRFTDKRVGYLGAMLLLDERHDSHLLITNSIKNDLSQGNQPVQGLALCTLSTMGSAEMCRDLA
PEVEKLLLQSPYVRKAILTAVHMIRKDPESGIFLPPCTKLLRERHHGIQLGTVTLITELCERNPAAL
RHFRKVVPLVQILRLTLVTTGYSTEHSISGVSDPFLVQVILRLLRILGRNHEESSETMNDLLAQVATNTD
TSRNAGNAVLLLETVLTIMAIHSAAGLRVLAVNILGRFLLNNDKNIRYVALTSLQLVQSDHSVQRHRST
VVECLQETDASLSRRALELALVNSSNVRAMMQLQAFLESCPPDLRADCASGILLAAERFAPSKRWHI
DTILHVLTTAGAHVRDDAVANLTLIGEAELHTYSVRRRLYSALAEDISQQPLVQVAAWCIGEYGDLLLE
GNCEETEPFQVEEEDVLALLEKVLQSHMSLPATRGYAITALMKLSTRLRGDNRRIRQVVSIIYGSCVDLEL
QQRAVEYNTLFQKYDHMRAAILEKMPLVERGDPHVKEGGKEKQTEAQPLEVTAAPTEPQATKLLDLDL
LGDTSSEPLSSGHAQHLPPQTPSPGEALIHLLDLPTPPPAPIPSVRVFEREGLQLDLSFMRPLETPALL
LVTATTTNSSKEDVTHFVCAAVPKSFQLQLQAPSGNTIPAQGGPITQVFRILNPNQAPLRLKRLTYN
HSGQPVEIFEVDNLPVETWQ
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007455

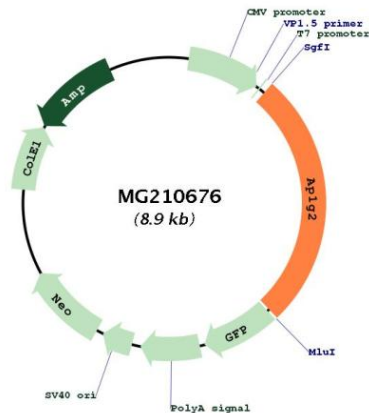
**ORF Size:** 2373 bp

**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\\_007455.5](#), [NP\\_031481.2](#)
- RefSeq Size:** 2694 bp
- RefSeq ORF:** 2376 bp
- Locus ID:** 11766
- UniProt ID:** [O88512](#)
- Cytogenetics:** 14 C3
- Gene Summary:** This gene encodes the gamma-2 subunit of the adaptor protein complex 1 (AP-1). AP-1 complex is a heterotetramer comprised of two heavy and one each of medium and small subunits. The encoded protein is a heavy subunit of AP-1 complex that regulates polarized sorting of cargo at the trans-Golgi network and endosomes. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2015]

**Product images:**



Circular map for MG210676