

## Product datasheet for **MG216183**

### Ap4b1 (NM\_001163553) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ap4b1 (NM_001163553) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ap4b1
Synonyms:	1810038H16Rik; Ap4b4; AV004952
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG216183 representing NM\_001163553  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCATACCTTGGCTCTGAGGACGTGGTGAAGGAACTGAAGAAGGCTCTGTGTAACCCATATTCAGG  
 CTGATAGGCTGCGCTACCGGAATGTCATCCAGCGAGTTATTAGGCACATGACTCAGGGCTTGGACATGTC  
 TGATGTTTTTCATGAAAATGGTAAAGGCCAGTGCCACTGTAGATATTGTTCAAAAAAGTTGGTTTATCTG  
 TATATGGGCACATACGCACCTTTAAAACAGATCTAGCACTCTTGGCCATCAATACGCTCTGCAAAGACT  
 GCTCAGACCCCAACCAATGGTTCGAGGACTGGCACTACGGAGTATGTGTAGCCTCAGGATGCCTGGTGT  
 GCAGGAATATATCCAGCAGCCTGTTGTTAACGGTCTGCGTGATAAAGCTTCATATGTCAGAAGAGTAGCA  
 GTCCTCGGCTGTCCAAAATGCATAATCTTCACGGAGACTCTGAAGTGGATGGTGTCTCGTCAATGAGT  
 TGTACAGTCTTCTGCGTGACCAGGATCCAATTGTGGTTGTGAAGTGTCTGAGGTCTCTAGAGGAAATTTT  
 AAAGCAGGAAGGAGGTGTTGTCATTAATAAGCCCATTGCCACCATCTCTTAAATAGAATGTCAAAGCTG  
 GACCAGTGGGGCCAGGCTGAAGTACTGAACTTTCTGCTCCGCTACCAACCCCGCAGTGAGGAGGAACTGT  
 TTGATATTCTCAATTTGTTGGACAGCTATCTCAAGAGCAGCAGTACTGGCGTGGTGTGAGGAGCCACCAA  
 ACTCTTTCTGATTTTGGCAAAAAGTTCACCCACGTGCAGACTGATGTGCTTGTGCGAGTCAAGGGGCC  
 TTGCTGGCCGCTGCTCTTCAGAGAGCCGTGAGCTCTGTTTTGCTGCTCTCTGCCATGTCGCCAGGTCT  
 TGCACAGTTTGGCAGGCTCACTTTAGCAGTCACTACAAAAGTTTTTTTGTCTTACTCGGAACCCCACTA  
 CATCAAGCTCCAGAAGGTGGAGGTGCTGTGCGAGCTGGTGAATGACGAGAACGTGCAGCAGGTGCTGGAA  
 GAGCTGCGTGGCTACTGCACTGACGTGGCTGCTGACTTTGCACAGGCTGCCATCTTCGCCATAGTGGTGG  
 TGCAGACTTTCCGAGACCTGGTCTGGTTATGCCCTCAGTGTACTGAAGCTGTGTGTCAGGCTCTGCCCGG  
 CTGTGAGGAGAACATTCAAGACAGTGAGGGGAAACAGGCACTTATTTGGTTACTTGGGGTCCACGGGGAA  
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 TTAAGATGGAGCTACTGACCGCACTGATGCGCCTTGTCTCTCGCGCCCGGCTGAGTGCCAGGACATGCT  
 GGGACGGCTGCTGCATTACTGCATAGAGGAAGAAAAGGATATGGCTGTACGGGACCGGGTCTCTTCTAT  
 TACCGCTCCTGTTAGTTGGCATTGATAAAGTTAAGCAGATCCTGTGTAGTCTAAGTCTGACCCTTCTC  
 TTGGACTTTTGGAGGATCAGCCGGAACGACCAGTAAATAGCTGGGCTTCCAGACTTCAACACACTGGCGCC  
 AGTGTATGGCAGAGCCCACTGGGCAACTATCTCTAAATGCCAGCAGGTAGAGCGGCATCGCCTTGAGCTT  
 CCCCAATGCATCCTTTGCCACATCAGGGCACTTGATTTCCGAGGAGAACAAAGAAGGTGCACAAGAAC  
 CTGATTCTGACACTCTCATGCTGGTCCCAATCTCCAGCTTACTGCTGAGTATTTTGAGAAGACGTGGCT  
 TAGCCTCAGAGTTAGTTACCAGCAGGTGTTTCTTGGCAGGGAGAAGTCCAGCCTGACACTCTACAATG  
 GCTCTAAAAGTAGTGAACATTGAGACCATCGCAATGAGCAGAGCTGGGGCACAGCCCTGGAAAGCCTACC  
 TCAGTGCTCAGGATGATACTGGCGGCTTTTCTTAGCTGAATTGCTACTGAAGCCTGAGAAGTCAAGAGAT  
 GCAAACTCTGTGAAGCAAAGTAAGGCAAGGACTGAATCCCTGCATGGTTTTGTTTCTGCTGAAACT  
 GTGATTGGAACAGTTGGAGACATAAAATCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG216183 representing NM\_001163553  
Red=Cloning site Green=Tags(s)

```

MPYLGSSEVVKELKKALCNPHIQADRLRYRNVIIQRVIRHMTQGLDMSDVFMEMVKASATVDIVQKKLVYL
YMGTYAPLKPDLLAINTLCKDCSDPNPMVRGLALRSMCSLRMPGVQEYIQPVVNGLRDKASYVRRVA
VLGCAKMHNHLDGSEVDGALVNELYSLLRDQDPIVVVNLRSLEEILKQEGGVVINKPIAHLLNRMSKL
DQWQQAQAEVLFNLLRYQPRSEEEELFDILNLLDSYLKSSSTGVVMGATKFLILAKKFPHVQTDVLRVKGK
LLAACSSERELCFAALCHVRQVLHSLPGHFSHYKFFCSYSEPHYIKLQKVEVLCENVQVLE
ELRGYCTDVAADFAQAAIFAIVVVTFRDLVWLCPCQTEAVCQALPGCEENIQDSEGKQALIWLLGVHGE
KIPNAPYVLEDFVDNVKSETFPAVKMELLTALMRLVLSRPAECQDMLGRLLHYCIEEEKDMAVRDRGLFY
YRLLLVGIDKVKQILCSPKSDPSLGLLEDQPERPVNSWASDFNTLAPVYGRAHWATISKCCQVERHRLLEL
PHNASFATSGHLISEENKEGAQEPDSDLMLVPLNQLTAEYFEKTWLSLRVSYQQVFPWQGEVQPDTLQM
ALKVVNIQTIAMSRAGAQPWKAYLSAQDDTGGLFLAELLLKPENSEMQISVKQSKARTESLHGFVSVLET
VIGTVGDIKS
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001163553

**ORF Size:** 2130 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\\_001163553.1](#), [NP\\_001157025.1](#)

**RefSeq Size:** 2830 bp

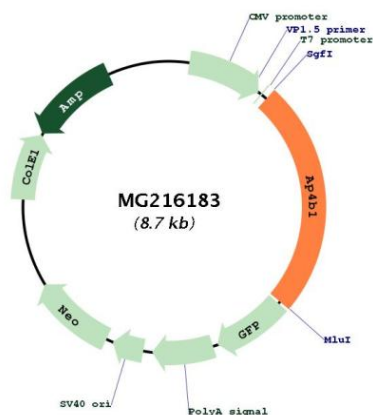
**RefSeq ORF:** 2133 bp

**Locus ID:** 67489

**Cytogenetics:** 3 F2.2

**Gene Summary:** Component of the adaptor protein complex 4 (AP-4). Adaptor protein complexes are vesicle coat components involved both in vesicle formation and cargo selection. They control the vesicular transport of proteins in different trafficking pathways. AP-4 forms a non clathrin-associated coat on vesicles departing the trans-Golgi network (TGN) and may be involved in the targeting of proteins from the trans-Golgi network (TGN) to the endosomal-lysosomal system (By similarity). It is also involved in protein sorting to the basolateral membrane in epithelial cells and the proper asymmetric localization of somatodendritic proteins in neurons (PubMed:18341993). AP-4 is involved in the recognition and binding of tyrosine-based sorting signals found in the cytoplasmic part of cargos, but may also recognize other types of sorting signal (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG216183