

## Product datasheet for **MG216173**

### Ap4b1 (NM\_026193) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ap4b1 (NM_026193) 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:

>MG216173 representing NM\_026193  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCATACCTTGGCTCTGAGGACGTGGTGAAGGAACTGAAGAAGGCTCTGTGTAACCTCATATTCAGG  
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TGATGTTTTTCATGAAAATGGTAAAGGCCAGTGCCACTGTAGATATTGTTAGAAAAAGTTGGTTTATCTG  
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GCTCAGACCCCAACCAATGGTGCAGGACTGGCACTACGGAGTATGTGTAGCCTCAGGATGCCTGGTGT  
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CTGTCTGGAAACTGTGATTGGAACAGTTGGAGACATAAAATCT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG216173 representing NM\_026193  
 Red=Cloning site Green=Tags(s)

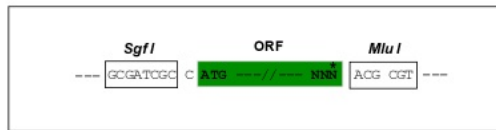
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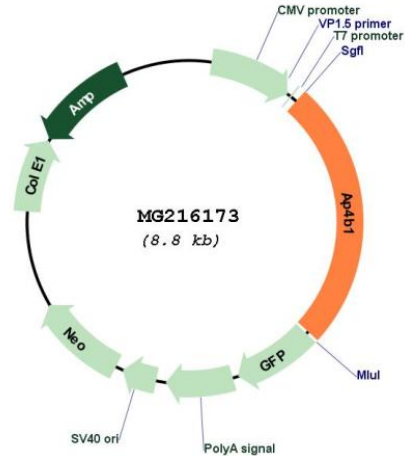
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_026193

**ORF Size:** 2214 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\\_026193.2](#), [NP\\_080469.2](#)

**RefSeq Size:** 2914 bp

**RefSeq ORF:** 2217 bp

**Locus ID:** 67489

UniProt ID: [Q9WV76](#)

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]