

Product datasheet for **MG210377**

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:**

>MG210377 representing NM_026193
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCATACCTTGGCTCTGAGGACGTGGTGAAGGAACTGAAGAAGGCTCTGTGTAACCTCATATTCAGG
 CTGATAGGCTGCGCTACCGAATGTCATCCAGCGAGTTATTAGGCACATGACTCAGGCTTGGACATGTC
 TGATGTTTTTCATGAAAATGGTAAAGGCCAGTGCCACTGTAGATATTGTTAGAAAAGTTGGTTTATCTG
 TATATGGGCACATACGCACCTTTAAAACAGATCTAGCACTCTTGGCCATCAATACGCTCTGCAAAGACT
 GCTCAGACCCCAACCAATGGTGCAGGACTGGCACTACGGAGTATGTGTAGCCTCAGGATGCCTGGTGT
 GCAGGAATATATCCAGCAGCCTGTTGTTAACGGTCTGCGTGATAAAGCTTCATATGTCAGAAGAGTAGCA
 GTCCTCGGCTGTCCAAAATGCATAATCTTCACGGAGACTCTGAAGTGGATGGTCTCTCGTCAATGAGT
 TGTACAGTCTTCTGCGTGACCAGGATCCAATTGTGGTTGTGAAGTGTCTGAGGTCTCTAGAGGAAATTTT
 AAAGCAGGAAGGAGGTGTTGTCATTAATAAGCCCATTGCCACCATCTCTAAATAGAATGTCAAAGCTG
 GACCAGTGGGGCCAGGCTGAAGTACTGAACTTTCTGCTCCGCTACCAACCCCGCAGTGAGGAGGAACTGT
 TTGATATTCTCAATTTGTTGGACAGCTATCTCAAGAGCAGCAGTACTGGCGTGGTATGGGAGCCACCAA
 ATTCTTTCTGATTTTGGCAAAAAGTTCACCCACGTGCAGACTGATGTGCTTGTGCGAGTCAAGGGGCC
 TTGCTGGCCGCTGCTCCTCAGAGAGCCGTGAGCTCTGTTTTGCTGCTCTCTGCCATGTCGCCAGGTCT
 TGCACAGTTTGGCAGGTCACTTTAGCAGTCACTACAAAAGTTTTTTGCTCTTACTCGAAACCCCACTA
 CATCAAGCTCCAGAAGGTGGAGGTGCTGTGCGAGCTGGTGAATGACGAGAACGTGCAGCAGGTGCTGGAA
 GAGTGCCTGGTACTGCACTGACGTGGCTGCTGACTTTGCACAGGCTGCCATCTTCGCCATAGGTAGCA
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 CTGGAAGCCTACCTCAGTGTCTCAGGATGATACTGGCGGCCTTTTCTTAGCTGAATTGCTACTGAAGCCT
 GAGAACTCAGAGATGCAATCTCTGTGAAGCAAAGTAAGGCAAGGACTGAATCCCTGCATGGTTTTGTTT
 CTGTCTGGAAACTGTGATTGGAACAGTTGGAGACATAAAATCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210377 representing NM_026193
 Red=Cloning site Green=Tags(s)

MPYLGSEDEVVKELKKALCNPHIQADRLRYRNVIQRVIRHMTQGLDMSDVFMEMVKASATVDIVQKKLVYL
 YMGTYAPLKPDLALLAINTLCKDCSDPNPMVRGLALRSMCSLRMPGVQEYIQPVVNGLRDKASYVRRVA
 VLGCAKMHNLHGDSEVDGALVNELYSLLRDQDPIVVVNLRSLEEILKQEGGVVINKPIAHLLNRMSKL
 DQWQQAQEVNLFLLRYQPRSEEEELFDILNLLDSYLKSSSTGVVMGATKFFLILAKKFPHVQTDVLRVKG
 LLAAACSSERELCFAALCHVRQVLHSLPGHFSHYKFFCSYSEPHYIKLQKVEVLCENVQVLE
 ELRGYCTDVAADFAQAAIFAIGSIAKTYDQCQVQILTELLGLRQEHTTVVVVQTFRDLVWLCPCQCTEAVC
 QALPGCEESIQDSEKQALIWLLGVHGEKIPNAPYVLEDFVDNVKSETFPAVKMELLTALMRLVLSRPAE
 CQDMLGRLLHYCIEEEKDMAVRDRGLFYRLLLVGIDKVKQILCSPKSDPSLGLLEDQPERPVNSWASDF
 NTLAPVYGRAHWATISKCCQVERHRELPHNASFATSGHLISEENKKAQEPDSDLMLVPLNLQTAEYF
 EKTWLSLRVSYQQVFPWQGEVQPDTLQMALKVVNIQTIAMSRAGAQPWKAYLSAQDDTGGLFLAELLKPK
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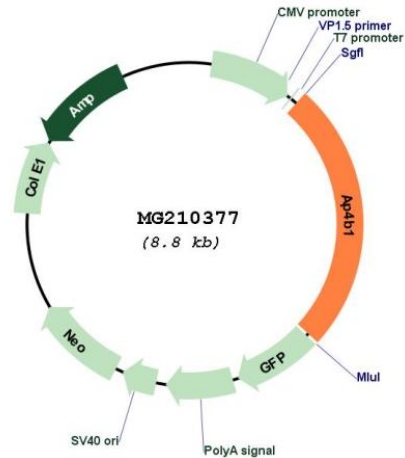
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_026193

ORF Size: 2911 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_026193.1](#)

RefSeq Size: 2797 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]