

## Product datasheet for **MG211270**

### Ap1b1 (NM\_007454) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ap1b1 (NM_007454) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ap1b1
Synonyms:	Adtb1; b2b1660Clo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG211270 representing NM\_007454  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACTGACTCAAATACTTCACCACAACCAAGAAAGGGGAGATCTTTGAGCTGAAGGCAGAGCTTAACA  
 GTGACAAGAAGGAGAAGAAGAAGGAGGCAGTGAAGAAAGTGATTGCATCAATGACTGTGGCCAAAGATGT  
 CAGTGCTCTCTCCCTGATGTGGTGAAGTGCATGCAGACAGACAACCTGGAGCTAAAGAAGCTGGTGAC  
 CTGTAATGACTGAAGTATGCCAAGAGTCAAGCTGACATGGCCATTATGGCTGTCAACACCTTTGTGAAGG  
 ACTGTGAGGACCCCAATCCTCTCATCCGGGCCCTGGCTGTGAGGACTATGGGCTGCATCCGAGTTGACAA  
 GATTACAGAGTATTTGTGTGAACCACTCCGGAAGTGCCTGAAGGATGAAGACCCATATGTGCGCAAGACA  
 GCGGCTGTGTGTGGCCAAGCTCCATGACATCAATGCCAGCTGGTGAAGACCAGGGCTTCTGGACA  
 CGCTTAAAGACCTCATCTCAGACTCTAACCCATGGTGGTAGCGAATGCAGTGGCTGCCCTGTGAGAGT  
 CGCTGAGTCTACCCAGTAGCAACCTGCTTGACTTGAACCCACAGTCTATCAACAAGCTGCTGACAGCC  
 CTTAATGAGTGCAGTGAATGGGGCCAGATCTTCATTCTGGACTGTCTGGCCAACATGACCCCAAGGATG  
 ACCGTGAGGCCAGAGCATCTGTGAGCGGGTCACTCCTAGACTCTCCCATGCCAACCTCTGCTGTGGTGCT  
 GTCTGCGGTGAAGGTGCTGATGAAGTTCATGGAGATGCTGTCCAAGGACCTGGACTACTATGCCACACTG  
 CTCAAGAAGCTGGCCCTCCCTCTGTCACACTGCTGTCCGAGAGCCAGAGCTGCAGTATGTGGCCCTGC  
 GCAACATCAATCTCATTGTACAGAAAAGGCCAGAGATCTTGAAGCATGAAATGAAGGTTTTCTTTGTGAA  
 GTACAATGACCCATCTACGTGAAGCTGGAGAACTGGACATTATGATCCGCCTGGCCTCCAGGCCAAC  
 ATTGCCAGGTATTGGCAGAAGTCAAAGAGTATGCTACAGAAGTAGACGTGGATTTCTGACGGAAGGCAG  
 TGCGTGCATTGGCCGCTGTGCCATCAAGGTGGAGCAATCTGCAGAGCGTGTGTGAGCACATTGCTTGA  
 TCTCATCCAGACCAAGGTCAACTATGTGGTTCAAGGAAAGCCATTGTGGTCAATTAAGGACATCTCCGCAAG  
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 CCCGAGCCGCTATGATCTGGATAGTGGCGAGTATGCCGAGCGGATTGACAATGCAGACGAGCTGCTCGA  
 GAGCTTCTGGAAGGTTCCATGATGAGAGCACTCAGGTCCAGCTACAGCTACTGACAGCCATTGTGAAA  
 CTCTTCTGAAGAAGCCAACAGAGACTCAGGAGCTGGTGCAGCAGGTCTCAGTTTGGCCACTCAGGACT  
 CAGACAATCCAGACCTTCGGGACCGTGGCTACATCTACTGGCGTTGCTCTCCACGGACCTGTAGCTGC  
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 GATGAACCTCATCTGCTACATTGGCAGCTGGCCTCTGTCTACCACAAGCCTCCCAAGCCTTTGTGGAGG  
 GTGGCCGGGGAGTGGTACATAAGAGCCTGCCACCCCGCACTGCCTCGAGTGAAGACAGAGAGCCCTGA  
 GACAGCTCCTGCTGGAGCACCTGCTGGTATCAGCCTGATGTCATTCTGCCAGGGTGACCTGTTAGGT  
 GACCTCCTCAACCTGGACCTTGGGCCCCAGTGAAGTGGCCACCCCTTAGCTGCCTCCTCCGTGCAATGG  
 GAGCTGTGGATCTTCTTGGTGGTGGCCTCGACAGCCTGATTGGAGATAGCAACTTGGGGCACCTTCAGC  
 ATCAGTGGCGGCAGCACCAGCACCAGCCAGACTTGGAGCACCCATCAGCAGTGGCTTAAGTGACCTCTTT  
 GACCTGACCAGTGGTGTGGGCACCCTTTCAGGATCCTATGTAGCTCCCAAGCAGTCTGGCTCCCTGCCA  
 TGAAGGCCAAGGGACTGGAGATCTTGGCACCTTACCCGGCAGGCTGGCTCCATCTCTATGGACCTGCA  
 GCTGACTAACAAGGCCCTGCAGGTCATGACAGATTTTGTATCCAGTTCATCGTAACAGCTTTGGCTTG  
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 TTAACACAGTGGGCTCAGTCTTGAAGATGGAGCCTCTAAACAATCTTCAAGTGGCTGTGAAGAACAACAT  
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 CAGATGTTCTGGCCACATGGAAGGACATTGCCAACGAGAACGAAGCCAGTTCAGATCAGAGACTGCC  
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 GGAGGGCCAGGATATGCTCTACCAATCTCTGAAGTTGACCAATGGCATCTGGGTGCTGGCGGAGCTGCGG  
 ATCCAGCCAGGCAACCCAGCTTACGCTGTCCCTGAAGTGTGAGCACCAGGAGGTGCCAGCATGAT  
 ACCAGGCTACGAGACTATCCTCAAGAAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211270 representing NM\_007454  
 Red=Cloning site Green=Tags(s)

MTDSKYFTTTKKGEIFELKAELNSDKKEKKKEAVKKVIASMTVGKDVSALEFPDVVNCMQTDNLELKKLVY  
 LYLMNYAKSQPDMAIMAVNTFVKDCEDPNPLIRALAVRTMGCIRVDKITEYLCEPLRKCLKDEDPYVRKT  
 AAVCVAKLHDINAQLVEDQGFLDTLKDLSDSNPMVVANAVAALSEIAESHPSSNLLDLNPQSINKLLTA  
 LNECTEWGQIFILDCLANYPKDDREAQSI CERVT PRLSHANSAVVL SAVKVLKMFMEMLSKDLDDYYATL  
 LKKLAPPVPTLLSAPELQYVALRNINLIVQKRPEILKHEMKVFFVKYNDPIYVKLEKLDIMIRLASQAN  
 IAQVLAELKEYATEVDVDFVRKAVRAIGRAIKVEQSAERCVSTLLDLIQTKVNYVYVQEAIVVVKDIFRK  
 YPNKYESVIATLCENLDSLDEPEARAAMIWIVGEYAERIDNADELLESFLEGFHDESTQVQLQLLTAIVK  
 LFLKKPTETQELVQVLSLATQSDNPDLRDRGYIYWRLLSTDPVAAKEVVLAEKPLISEETDLIEPTLL  
 DELICYIGTLASVYHKPPNAFVEGGRGVVHKSLLPRTASSESTESPETAPAGAPAGDQPDVIPAQGDLLG  
 DLLNLDLGPVSGPPLAASSVQMGAVDLLGGGLDSLIGDSNFGAPSASVAAAPAPARLGAPISGLSDF  
 DLTSGVGTLSGSYVAPKAVWLPAMKAKGLEISGTFTRQAGSISMDLQLTNKALQVMTDFAIQFNRSFGL  
 APAAPLQVHVPLSPNQTVEISLPLNTVGSVYLKMEPLNNLQYAVKNNIDVFYFSTLYPLHVLVVEDGKMDR  
 QMFLATWKDIANENAQFQIRDCPLNTEAASNKLQSSNIFTVAKRNVEGQDMLYQSLKLTNGIWLVAELR  
 IQPGNPSFTLSLKRAPEVSQHVYQAYETILKN

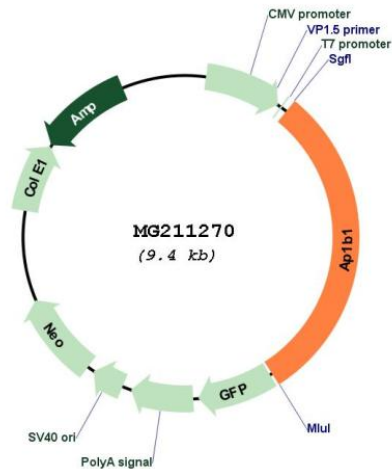
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_007454

**ORF Size:** 2829 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\\_007454.2](#), [NP\\_031480.2](#)

**RefSeq Size:** 3942 bp

**RefSeq ORF:** 2832 bp

**Locus ID:** 11764

**UniProt ID:** [O35643](#)

**Cytogenetics:** 11 A1

**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]