

Product datasheet for **RG204338**

AP4B1 (NM_006594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP4B1 (NM_006594) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AP4B1
Synonyms:	BETA-4; CPSQ5; SPG47
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG204338 representing NM_006594
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCCGTACCTTGGCTCCGAGGACGTGGTGAAGGAGCTGAAGAAGGCTCTGTGCAATCCTCACATTCAG
CTGATAGGCTGCGCTACCGGAATGTCATCCAGCGAGTGATTAGGTACATGACTCAAGGCTTGGACATGTC
TGGTGTTTTTATGAAAATGGTGAAGGCCAGTGCCACTGTAGATATTGTCCAGAAGAAGTTGGTTTTATCTG
TACATGTGCACATATGCTCCCCTGAAACCAGATCTGGCTCTCCTGGCCATCAATACGCTGTGCAAAGACT
GCTCAGACCCCAATCCAATGGTGCAGGGCTGGCGTTACGGAGCATGTGTAGCCTCAGGATGCCTGGTGT
GCAGGAGTATATAACAACAGCCTATTCTCAATGGTCTGCGGGATAAGGCTTCATATGTCAGGAGAGTGGCA
GTCCTTGGATGTCCAAGATGCATAATCTTCATGGAGACTCTGAAGTAGATGGTGCCTGGTAAATGAAT
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GAAACAGGAAGGAGGCGTTGTCATCAATAAGCCCATTGCTCACCATCTCTTAAATCGAATGTCAAAGCTG
GACCAATGGGGCCAGGCTGAAGTATTGAACTTTCTGCTACGCTACCAACCCCGCAGTGAGGAAGAATAT
TTGACATTCTCAATCTGTTGGATAGTTTCTCAAGAGCAGTAGCCAGGTGTGGTGTGAGGACTACCAA
ACTTTTTCTGATCTTGGCAAAAATGTTTCCCCACGTACAAACTGATGTCCTTGTGCGGGTCAAGGGACCT
TTGCTAGCTGCCTGTTCTTCAGAGAGCCGTGAGCTCTGTTTTGTTGCTCTTTGTCATGTACGCCAGATCT
TGCATAGTTTACCAGGCTCACTTTAGCAGCCACTACAAAAGTTTTTTTGTCTCTACTCGGAGCCCACTA
CATCAAACACAGAAAGTGGAGGTGCTGTGTGAAGTGGTGAACGATGAGAATGTGCAGCAGGTGCTAGAG
GAGCTTCGAGGGTACTGCACGGATGTGTCTGCGGACTTTGCACAGGCTGCCATCTTTGCCATAGGTGGCA
TTGCCAGGACTTACACAGATCAATGTGTTCAAGTTTTAACAGAGTTGCTGGGTCTTCGACAAGACCAT
TACCACAGTGGTGGTGCAGACTTCCGAGACCTGGTTTTGGTTGTGCTCAGTGTACTGAAGCTGTATGT
CAGGCCCTGCCCGGCTGTGAAGAGAACATTCAAGATAGTGAGGGGAAGCAAGCACTTATTTGGCTACTTG
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GTGACCCAGAGCTTCTAAAACCTCATCTTTGCGCATCAGGACCTTGATTCTGAAGAGAACAAGGA
GAGGGTACAAGAACTCCCTGATTCTGGAGCCCTCATGCTAGTCCCAATCGCCAGCTTACTGCTGATTAT
TTTGAGAAAACCTGGCTTAGCCTTAAAGTTGCTCATCAGCAAGTGTGCTTGGCGGGGAGAATTCATC
CTGACACCCTCCAGATGGCTCTTCAAGTAGTGAACATCCAGACCATCGCAATGAGTAGGGCTGGGTCTCG
GCCATGGAAAGCATACCTCAGTGCTCAGGATGATACTGGCTGTCTGTTCTTAACAGAAGTCTATTGGAG
CCTGGAAGTCAAGAAATGCAGATCTCTGTGAAACAAAATGAAGCAAGAACGGAGACGCTGAATAGTTTTA
TTTCTGTATTAGAAACTGTGATTGGAACAATTGAAGAAAATAAAATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204338 representing NM_006594
 Red=Cloning site Green=Tags(s)

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MPYLGSSEVVKELKKALCNPHIQADRLRYRNVIQRVIRYMTQGLDMSGVFMEMVKASATVDIVQKKLVYL
YMCTYAPLKPDLALLAINTLCKDCSDPNPMVRGLALRSMCSLRMPGVQEYIQQPILNGLRDKASYVRRVA
VLGCAKMHNHLDGSEVDGALVNELYSLLRDQDPIVVVNLRSLEEILKQEGGVVINKPIAHLLNRMSKL
DQWQQAQEVLFLLRYQPRSEEEELFDILNLLDSFLKSSSPGVVMGATKFLILAKMFPHVQTDVLRVKGP
LLAACSSSRELCFVALCHVRQILHSLPGHFSHYKFFCSYSEPHYIKLQKVEVLCENVQVLE
ELRGYCTDVSADFAQAAIFAIGGIARTYDQCQVQILTELLGLRQEHIITVVVQTFRDLVWLCPQCTEAVC
QALPGCEENIQDSEKQALIWLLGVHGERIPNAPYVLEDFVENVKSETFPAVKMELLTALLRFLSRPAE
CQDMLGRLLYYCIEEEKDMAVRDRGLFYRLLLVGIDEVKRILCSPKSDPTLGLLEDP AERP VNSWASDF
NTLVPVYGKAHWATISKCGAERCPELPKTSSF AASGPL IPEENKERVQELPDSGALMLVPNRQLTADY
FEKTLWLSLKV AHQQVLPWRGEFHPDTLQMALQV VNIQT IAMS RAGSRPWKAYLSAQDDTGLFLTELLLE
PGNSEMQISVKQNEARTETLNSFISVLETVIGTIEEIKS
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006594

ORF Size: 2217 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_006594.5](#)

RefSeq Size: 2432 bp

RefSeq ORF: 2220 bp

Locus ID: 10717

UniProt ID: [Q9Y6B7](#)

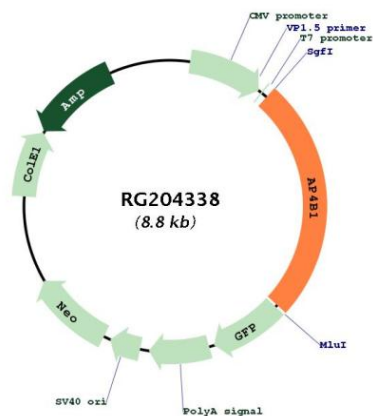
Cytogenetics: 1p13.2

Domains: Adaptin_N

Protein Pathways: Lysosome

Gene Summary: This gene encodes a subunit of a heterotetrameric adapter-like complex 4 that is involved in targeting proteins from the trans-Golgi network to the endosomal-lysosomal system. Mutations in this gene are associated with cerebral palsy spastic quadriplegic type 5 (CPSQ5) disorder. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RG204338