

Product datasheet for **RG231817**

AP4S1 (NM_001254729) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AP4S1 (NM_001254729) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AP4S1
Synonyms: AP47B; CLA20; CLAPS4; CPSQ6; SPG52
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231817 representing NM_001254729
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATAAAATTTTCTCATGGTGAATAAACAAGGGCAGACTCGACTTTCTAAGTACTATGAACATGTGG
ATATTAATAAGCGTACACTTCTGGAAACAGAAGTCATAAAGAGCTGTCTCTCGATCCAATGAACAATG
CTCTTTCATTGAATATAAGGATTTAAGCTGATATATCGGCAGTATGCAGCTCTCTTCATTGTGGTTGGA
GTTAATGACACTGAGAACGAGATGGCTATTTATGAATTCATTCAACTTTGTGGAAGTTTTAGATGAGT
ATTTACAGCCGAGTGAGTGAATTAGATATAATGTTAATTTGGATAAAGTACACATCATTTTGGATGAGT
GGTGTTAAATGGCTGCATTGTGGAACTAACAGGGCAAGAATTCCTGCCCTCTACTAATCTTGATAAG
ATGTCAGAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231817 representing NM_001254729
Red=Cloning site Green=Tags(s)

MIKFFLMVKNKQGQTRLKSKYYEHVDINKRTLLETEVIKSCLSRNSNEQCSFIEYKDFKLIYRQYAALFIVVG
VNDTENEMAIYEFIHNFVEVLDEYFSRVSELDIMFNLDKVIHILDEMVLNGCIVETNRARILAPLLILDK
MSES

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

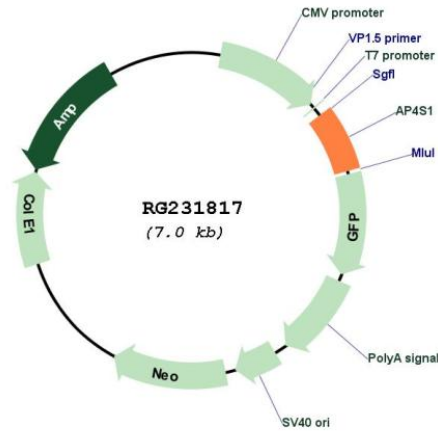


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001254729

ORF Size: 432 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:	<ol style="list-style-type: none">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:	<u>NM_001254729.1, NP_001241658.1</u>
RefSeq Size:	4135 bp
RefSeq ORF:	435 bp
Locus ID:	11154
UniProt ID:	<u>Q9Y587</u>
Cytogenetics:	14q12
Protein Pathways:	Lysosome
Gene Summary:	<p>This gene encodes a member of the adaptor complexes small subunit protein family. These proteins are components of the heterotetrameric adaptor protein complexes, which play important roles in the secretory and endocytic pathways by mediating vesicle formation and sorting of integral membrane proteins. The encoded protein is the small subunit of adaptor protein complex-4, which is associated with both clathrin- and nonclathrin-coated vesicles. Mutations in this gene are associated with spastic quadriplegic cerebral palsy-6. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 6. [provided by RefSeq, Dec 2011]</p>