

Product datasheet for **RG201104**

AP3S2 (NM_005829) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AP3S2 (NM_005829) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AP3S2
Synonyms: AP3S3; sigma3b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201104 representing NM_005829
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTCAGGCGATTCTGGTTTTCAACAACCATGGGAAGCCACGGCTAGTCCGCTTCTACCAGCGTTTCC
CAGAAGAAATTCAACAGCAGATTGTTTCGAGAGACTTCCATCTAGTCTCAAGCGGGATGACAACATCTG
TAACTTCTGGAGGGTGAAGTTTGATTGGTGGCTCTGACTACAACTGATCTACCGGCACTATGCTACC
CTCTACTTTGATTTTGTGTGGATTCTCAGAGAGTGAAGTTGGAATCTGGACCTATCCAGGTTTTTG
TGGAACTCTGGATAAGTGTTCGAAAATGTGTGTGAATTGGATTGATCTCCATATGGATAAGGTGCA
CTACATCCTCCAGGAGGTGGTGTGGTGGGATGGTGTGGAAACAAACATGAATGAAATCGTGGCTCAG
ATTGAGGCTCAAAACAGGCTGGAGAAATCCGAGGGTGGCCTTTCAGCAGCCCCTGCGCGGCTGTGTCTG
CTGTGAAAACATCAACCTGCCAGAGATTCTCGGAACATCAACATTGGCGATCTCAACATCAAAGTTCC
CAACCTGTCCCAGTTTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201104 representing NM_005829
Red=Cloning site Green=Tags(s)

MIQAILVFNNHGKPRLVRFYQRFPEEIQQIVRETFHLVLRDDNICNFLEGGSLIGGSDYKLIYRHYAT
LYFVFCVDSSESELGILDLIQVFVETLDKCFENVCELDLIFHMDKVHYILQEVMGGMVLETNMNEIVAQ
IEAQNRLKSEGLSAAPARAVSAVKINLPEIPRNINIGDLNIKVPNLSQFV

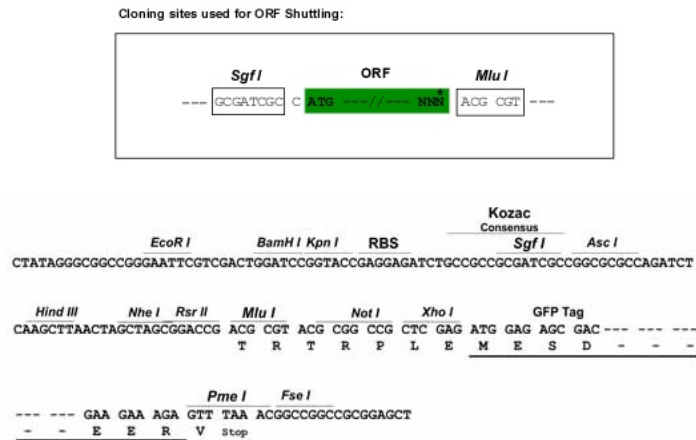
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2312_e06.zip



Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_005829

ORF Size: 579 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_005829.5](#)

RefSeq Size: 2578 bp

RefSeq ORF: 582 bp

Locus ID: 10239

UniProt ID: [P59780](#)

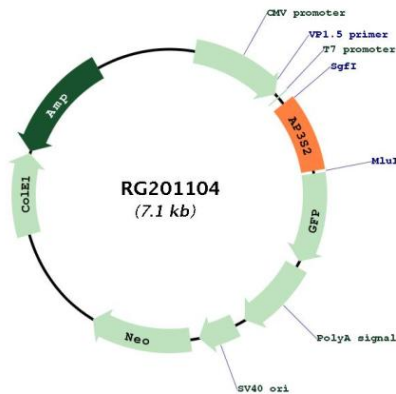
Cytogenetics: 15q26.1

Domains: Clat_adaptor_s

Protein Pathways: Lysosome

Gene Summary: Part of the AP-3 complex, an adaptor-related complex which is not clathrin-associated. The complex is associated with the Golgi region as well as more peripheral structures. It facilitates the budding of vesicles from the Golgi membrane and may be directly involved in trafficking to lysosomes. In concert with the BLOC-1 complex, AP-3 is required to target cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201104