

Product datasheet for **RG201566**

AP3S1 (NM_001284) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AP3S1 (NM_001284) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AP3S1
Synonyms: CLAPS3; Sigma3A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201566 representing NM_001284
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATCAAGGCGATCCTAATCTTCAACAACCACGGGAAGCCGGCTCTCCAAGTCTACCAGCCCTACA
 GTGAAGATACACAACAGCAAATCATCAGGGAGACTTCCATTTGGTATCTAAGAGAGATGAAATGTTTG
 TAATTTCTAGAAGGAGGATTATTAATTGGAGGATCTGACAACAACTGATTTATAGACATTATGCAACG
 TTATATTTGTCTTCTGTGGATTCTTCAGAAAGTGAAGTGGCATTATAGATCTAATTCAGTATTTG
 TGGAAACATTAGACAAATGTTTTGAAAATGTCTGTGAGCTGGATTTGATTTCCATGTAGACAAGTTCA
 CAATATTCCTGCAGAAATGGTATGGGGGAATGGTATTGGAGACAAATATGAATGAGATTGTTACACAA
 ATTGATGCACAAAATAAGCTGGAATAATCTGAGGCTGGCTTAGCAGGAGCTCCAGCCCGTCTGTATCAG
 CTGTAAGAATATGAATCTTCTGAGATCCCAAGAAATATTAACATTGGTGACATCAGTATAAAAGTGCC
 AAACCTGCCCTCTTTAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201566 representing NM_001284
 Red=Cloning site Green=Tags(s)

MIKAILIFNNHGKPRLSKFYQPYSEDYQQIIRETFHLVSKRDENVCFLEGGLIGGSDNKLIRHYAT
 LYFVFCVDSSESELGILDLIQVFVETLDKCFENVCELDLIFHVDKVHNI LAEMVMGGMVLETNMNEIVTQ
 IDAQNKLEKSEAGLAGAPARAVSAVKMNLPEIPRNINIGDISIKVPLPSFK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_001284

ORF Size: 579 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_001284.4](#)

RefSeq Size: 1313 bp

RefSeq ORF: 582 bp

Locus ID: 1176

UniProt ID: [Q92572](#)

Cytogenetics: 5q22.3-q23.1

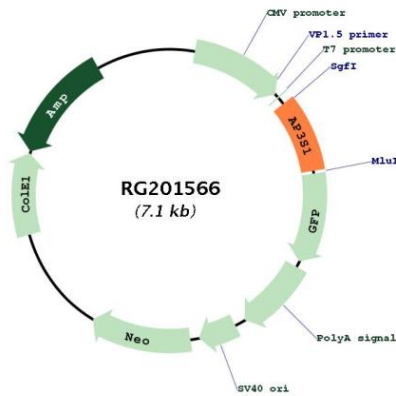
Domains: Clat_adaptor_s

Protein Families: Druggable Genome

Protein Pathways: Lysosome

Gene Summary: This gene encodes a subunit of the AP3 adaptor complex. This complex functions in the formation of subcellular vesicles budded from the Golgi body. Several related pseudogenes of this gene have been found. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG201566