

Product datasheet for **MG201869**

Ap3s2 (NM_009682) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ap3s2 (NM_009682) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ap3s2
Synonyms: [s]3B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201869 representing NM_009682
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATTCAGGCGATTCTGGTTTTCAACAACCATGGAAAACCGCGGCTGGTCCGCTTCTACCAGCGTTTTTC
 CAGAAGAAATTCAACAGCAGATTGTTTCGAGAGACTTCCATCTGGTCTCAAGCGAGATGACAACATCTG
 TAACTTCTAGAAGGTGGAAGTTTATTGGTGGCTCTGACTACAACTGATTTACCGGCACTATGCCACC
 CTCTACTTTGTGTTTTGTGGATTATCAGAGAGTGAAGTTGGGATCTGGACCTATCCAGGTTTTTG
 TGGAGACTGGATAAGTGTGTTGAGAATTTATGTGAGTTGGACTTGATCTCCATATGGATAAGGTGCA
 CTACATCCTGCAGGAGGTGGTATGGGTGGAATGGTGTGGAGACAAACATGAATGAAATTTGGCTCAA
 ATCGAAGCTCAAACCGACTGGAGAAGTCGGAGGGCGGCCTCTCTGCAGCTCCAGCAAGGCCGTGCCG
 CTGTGAAGAACATCAACCTCCCTGAGATCCCCAGGAACATCAACATCGGTGACCTCAACATCAAAGTCCC
 CAACCTGTCCCAGTTTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201869 representing NM_009682
 Red=Cloning site Green=Tags(s)

MIQAILVFNNHGKPRLVRFYQRFPEEIQQIVRETFHLVLRDDNICNFLEGGSLIGGSDYKLIYRHYAT
 LYFVFCVDSSESELGILDLIQVFVETLDKCFENLCELDLIFHMDKVHYILQEVMGGMVLETNMNEIVAQ
 IEAQRLEKSEGLSAAPARAVSAVKNINLPEIPRNINIGDLNIKVPNLSQFV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

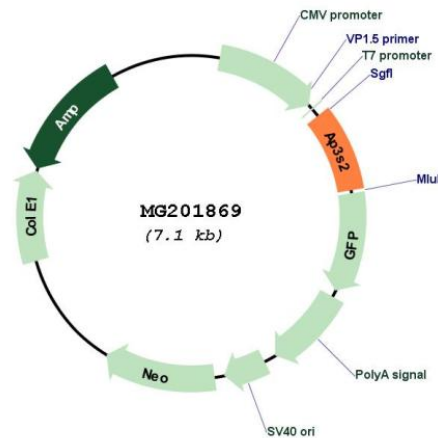


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Cloning Scheme:



Plasmid Map:



ACCN: NM_009682

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_009682.2](#), [NP_033812.2](#)

RefSeq Size: 5781 bp

RefSeq ORF: 582 bp

Locus ID: 11778

UniProt ID: [Q8BSZ2](#)

Cytogenetics: 7 D2

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]