

Product datasheet for **MG222053**

Ap3s1 (NM_009681) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ap3s1 (NM_009681) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ap3s1
Synonyms: [s]
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222053 representing NM_009681
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATCAAGGCCATCCTCATCTTCAACAACCACGGGAAGCCGGCTCTCCAAGTCTACCAGCCCTATA
 GTGAAGACACGCAACAGCAAATCATCAGGGAGACTTCCATTTGGTGTCTAAGCGCGATGAGAACGTTTG
 TAATTTCTAGAAGGAGGATTATTAATTGGAGGCTCTGACAACAAGCTCATTTACAGACATTATGCAACA
 CTATATTTGTCTTCTGTGTGGACTCCTCAGAAAGTGAAGTGGCATTATAGATCTAATTCAGTATTTG
 TGGAAACATTAGACAAATGTTTTGAAAATGTTTGTGAAGTGGATTAATATTCCATGTAGACAAGTTCA
 TAATATTCCTGCAGAAATGGTGTATGGGGGAATGGTATTGGAGACCAACATGAATGAGATTGTCACACAA
 ATTGATGCACAAAATAAACTGGAGAAATCTGAGGCTGGCTTAGCAGGAGCTCCAGCCCGTGTGTATCAG
 CTGTAAGAATATGAATCTTCTGAGATCCCAAGAAATATTAACATTGGTGACATCAGTATAAAAGTGCC
 AAACCTGCCCTCTTTAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222053 representing NM_009681
 Red=Cloning site Green=Tags(s)

MIKAILIFNNHGKPRLSKFYQPYSEDYQQIIRETFHLVSKRDENVCFLEGGLIGGSDNKLIRHYAT
 LYFVFCVDSSESELGILDLIQVFVETLDKCFENVCELDLIFHVDKVNHLAEMVMGGMVLETNMNEIVTQ
 IDAQNKLEKSEAGLAGAPARAASAVKNNMNLPEIPRNINIGDISIKVPLPSFK

TRTRPLE - GFP Tag - V

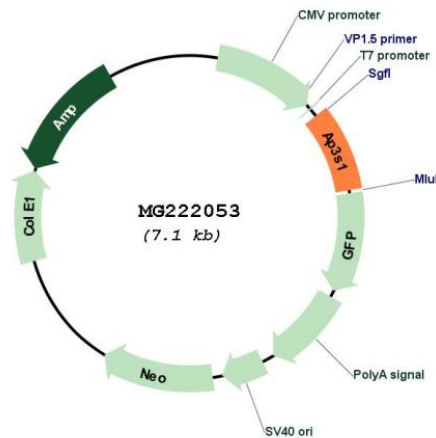
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_009681

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_009681.5](#), [NP_033811.1](#)

RefSeq Size: 1479 bp

RefSeq ORF: 582 bp

Locus ID: 11777

UniProt ID: [Q9DCR2](#)

Cytogenetics: 18 C

Gene Summary: This gene encodes the sigma subunit of the heterotetrameric adaptor protein complex AP-3 which is involved in the formation of specialized lysosome-related compartments such as melanosomes. Alternate splicing of this gene results in multiple transcript variants encoding different isoforms. Pseudogenes of this gene are found on chromosomes 1, 8, 16, 17 and X. [provided by RefSeq, Dec 2014]