

Product datasheet for **RG214850**

AP3M1 (NM_207012) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | AP3M1 (NM_207012) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | AP3M1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG214850 representing NM_207012 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCACAGTCTATTTCTCATAAACTGTTCCGGTGACATATTTCTAGAGAAGCACTGGAAGAGCGTTG
TGAGCCAGTCTGTCTGTGATTATTTCTTTGAAGCTCAAGAGAAAGCTGCTGATGTTGAAAATGTACCACC
TGTCATTTCAACACCTCACCACTACCTCATCAGTATCTACCGGGATAAGCTCTTCTTTGTATCTGTCCATA
CAGACCGAAGTGCCACCTCTCTTTGTAATTGAGTTCCTACATCGAGTTGCTGACACTTTTCAGGACTACT
TTGGTGAGTGTTCCAGAGGCTGCAATTAAGGATAATGTGGTCATAGTATATGAACCTTAGAAGAAATGTT
AGACAATGGATTTCCACTGGCTACCGAATCTAACATTTTGAAAGAATTGATTAACCACCAACAATTCTA
CGCTCTGTTGCAACTCTATTACAGGCAGTAGTAATGTTGGGGACACACTCCCCACCGGGCAGCTGTCCA
ACATACCATGGCGTCGGGCAGGGGTAAAGTACACAAAATGAAGCCTATTTTGATGTTGTTGAAGAAAT
AGACGCAATTATAGATAAATCAGGATCTACAGTCTTTCAGAAAATTCAGGGGGTCAATTGATGCTTGCATT
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CCGACTCATATCATACCGTGTCCAGTCCACAAAATCTAGTGGCAATACCAGTGTATGTGAAACATAGTATC
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CTATTGAAGGAATTACAGTGACAGTTCACATGCCAAAAGTTGTGCTGAACATGAACCTGACCCACACA
AGGCAGCTATACATTTGATCCAGTACCAGGTAACATGGGATGTGGGAAAAATTAATCCACAAAAG
CTCCCAAGTCTTAAGGACTGGTAAATTTACAGTCTGGAGCCCCAAACCAGAAGAGAATCCGAGCCTCA
ACATACAGTTTAAGATCCAGCAGCTTGCTATTTTCAGGCTTAAAAGTAAACCGTTTGGACATGTATGGGGA
GAAATATAAGCCATTTAAAGGAGTCAAATACGTCACGAAAGCTGGAAAGTTCCAAGTGAGGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214850 representing NM_207012
Red=Cloning site Green=Tags(s)

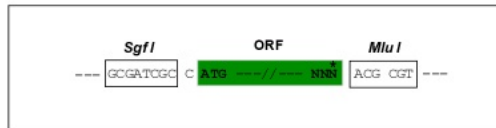
MIHSLFLINCSGDI FLEKHWKSVVSQSVCDYFFEAQEKAADVENVPPVISTPHHYLISIIYRDKLFFVSVI
 QTEVPPLFVIEFLHRVADTFQDYFGECSEAAIKDNVVIVYELLEMLDNGFPLATESNILKELIKPPTIL
 RSVVNSITGSSNVGDTLPTGQLSNIPWRRAGVKYTNNEAYFDVVEEIDAIDKSGSTVFAEIQGVIDACI
 KLSGMPDLSLSFMNPRLLDDVVFHPCIRFKRWESERLVSFIPDGNFRLISYRVSSQNLVAIPVYVKHSI
 SFKENS SCCRFDITIGPKQNMGTIEGITVTVHMPKVVLNMNLTPQTGSYTFDPVTKVLTWDVVGKITPQK
 LPSLKGLVNLQSGAPKPEENPSLNIQFKIQQLAISGLKVNRLDMYGEKYKPKGKVKYVTKAGKFQVRT

TRTRPLE - GFP Tag - V

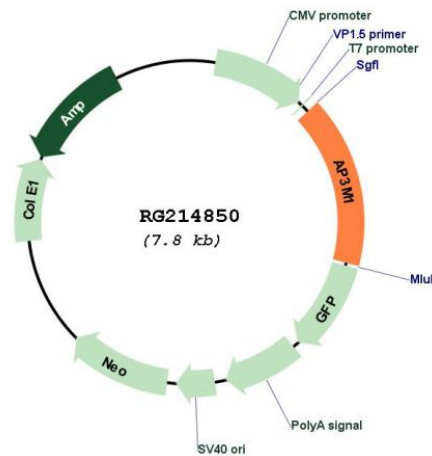
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_207012

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|-------------------------------|---|
| ORF Size: | 1254 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: | NM_207012.4 |
| RefSeq Size: | 3730 bp |
| RefSeq ORF: | 1257 bp |
| Locus ID: | 26985 |
| UniProt ID: | Q9Y2T2 |
| Cytogenetics: | 10q22.2 |
| Protein Pathways: | Lysosome |
| Gene Summary: | The protein encoded by this gene is the medium subunit of AP-3, which is an adaptor-related protein complex associated with the Golgi region as well as more peripheral intracellular structures. AP-3 facilitates the budding of vesicles from the Golgi membrane, and it may directly function in protein sorting to the endosomal/lysosomal system. AP-3 is a heterotetrameric protein complex composed of two large subunits (delta and beta3), a medium subunit (mu3), and a small subunit (sigma 3). Mutations in one of the large subunits of AP-3 have been associated with the Hermansky-Pudlak syndrome, a genetic disorder characterized by defective lysosome-related organelles. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2016] |