

Product datasheet for **MG206625**

Ap3m2 (NM_029505) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ap3m2 (NM_029505) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ap3m2
Synonyms:	5830445E16Rik; AP-3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206625 representing NM_029505 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTACAGCCTTTTCTTGATTAACCTTCCGGAGATATTTTCTGGAGAAACACTGGAAAAGTGTGG
TCAGCCGCTCTGTGTGTGATTACTTCTTCGAGGCCAAGAGAGAGCTACCGAGGCAGAAAATGTGCCTCC
GGTCATCCCCACCCCTCACCCTACCTCCTGAGTGTTCACGGCACAAGATCTTCTTTGTGGCTGTAATC
CAGACAGAGGTCCCGCCTCTGTTTGTCAATTCTTCACCGAGTAGTGGATACATTTCAAGACTATT
TTGGGGTCTGTTCCGAGCCAGTGATCAAAGACAATGTGGTGGTGTACGAGGTGTTGGAAGAGATGCT
GGACAACGGGTTCCCTTGGCTACGGAGTCAAACATCCTCAAAGAACTGATAAAGCCTCCCACTATTCTC
CGGACAGTGGTCAACACCATCACAGGAAGCACCAATGTGGGGGACCAGCTTCCAAGTGGGAGCTGTCCG
TGGTGCCTTGGGACGGACAGGGGTGAAATATACCAACAACGAGGCCTATTTTCGATGTGGTGAAGAGAT
AGACGCCATCATTGACAAGTCAGGTTCCACAGTCACCGCTGAGATCCAAGGGGTGATCGATGCCTGTGTT
AAGCTGACCGGGATGCCGGATCTCACTCTGTCTTCATGAACCCAGGTTGCTGGACGATGTTAGCTTCC
ACCCCTGTGTCCGTTTCAAGCGCTGGGAATCTGAGCGCATCTCTCTTCATCCCTCCTGACGGCAACT
CCGCTGCTCGCTACCACGTCAGTGCACAGAACCTCGTTGCCATTCCAGTCTATGTCAAACATAGCATC
AGCTTCCGGGACAGCAGTTCACCTGGACGCTTTGAAATCAGGTGGGACCAAGCAGACCATGGGGAAGA
CCATAGAGGGTGTGATTGTCACCAGCCAGATGCCCAAAGGAGTCCTGAATATGAGCCTCACTCCATCTCA
GGGACACACACGTTTGACCCCGTGACAAAGATGCTGTCTTGGGATGTAGGAAAAATAAACCCACAGAAG
CTGCCAAGTTTGAAGGGGACGATGGGTCTCCAGGTCCGAGCTTCTAAACCAGATGAGAACCCTACGATTA
ACCTGCAGTTTAAAGATCCAGCAGCTGGCCATTTCTGGACTCAAAGTGAACCGTCTGGATATGTACGGGA
GAAGTACAAGCCCTTTAAAGGCATCAAATACATGACCAAAGCCGGCAAGTTCCAAGTCCGAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206625 representing NM_029505
 Red=Cloning site Green=Tags(s)

MIHSLFLINSSGDIFLEKHWKSVVSRVCDYFFEAQERATEAENVPPVIPTPHHYLLSVYRHKIFFVAVI
 QTEVPPLFVIEFLHRVVDTFQDYFGVCSEPVIKDNVVVVYEVLEEMLDNGFPLATESNILKELIKPPTIL
 RTVVNTITGSTNVGDQLPTGQLSVVPWRRTGVKYTNNEAYFDVVEEIDAIIDKSGSTVTAEIQGVIDACV
 KLTGMPPDLTLSFMNPRLLDDVSFHPCVRFKRWESERILSFIPDGNFRLLAYHVSQNLVAIPVYVKHSI
 SFRDSSSLGRFEITVGPQKTMGKTIIEGVIIVTSQMPKGVLNMSLTPSQGHTTFDPVTKMLSVDVGKINPQK
 LPSLKGTMLQVGASKPDENPTINLQFKIQQLAISGLKVNRLDMYGEKYKPFKGIKYMTKAGKFQVRT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029505

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:

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_029505.3](#), [NP_083781.2](#)

RefSeq Size: 3405 bp

RefSeq ORF: 1257 bp

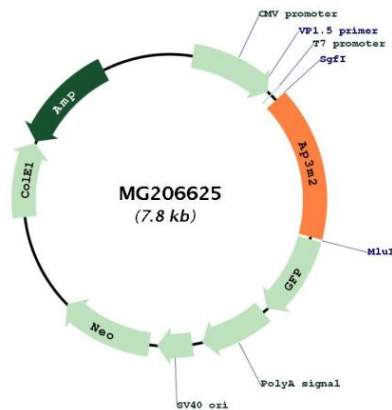
Locus ID: 64933

UniProt ID: [Q8R2R9](#)

Cytogenetics: 8 A2

Gene Summary: Component of the adaptor complexes which link clathrin to receptors in coated vesicles. Clathrin-associated protein complexes are believed to interact with the cytoplasmic tails of membrane proteins, leading to their selection and concentration. Ap47 is a subunit of the plasma membrane adaptor (By similarity). 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 MG206625