

## Product datasheet for MR216775

### Ap3m2 (NM\_001122820) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ap3m2 (NM_001122820) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ap3m2
Synonyms:	5830445E16Rik; AP-3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216775 representing NM_001122820 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATTACAGCCTTTTCTTGATTAACCTTCCGGAGATATTTCTGGAGAAACACTGGAAAAGTGTGG  
TCAGCCGCTCTGTGTGATTACTTCTCGAGGCCAAGAGAGAGCTACCGAGGCAGAAAATGTGCCTCC  
GGTCATCCCCACCCCTCACCACTACCTCCTGAGTGTTCACGGCACAAGATCTTCTTTGTGGCTGTAATC  
CAGACAGAGGTCCCGCCTCTGTTTGTCAATTCTTCCAGGAGTGTGGATACATTTCCAGGACTATT  
TTGGGGTCTGTTCCGAGCCAGTGATCAAAGACAATGTGGTGGTGTACGAGGTGTTGGAAGAGATGCT  
GGACAACGGGTTCCCTTGGCTACGGAGTCAAACATCCTCAAAGAACTGATAAAGCCTCCCACTATTCTC  
CGGACAGTGGTCAACACCATCACAGGAAGCACCAATGTGGGGGACCAGCTTCCAACCTGGGACGCTGTCGG  
TGGTGCCTTGGGACGGACAGGGGTGAAATATACCAACAACGAGGCCTATTTTCGATGTGGTGAAGAGAT  
AGACGCCATCATTGACAAGTCAGGTTCCACAGTCACCGCTGAGATCCAAGGGGTGATCGATGCCTGTGTT  
AAGCTGACCGGGATGCCGGATCTCACTCTGTCTTTCATGAACCCAGGTTGCTGGACGATGTTAGCTTCC  
ACCCCTGTGTCGGTTTCAAGCGCTGGGAATCTGAGCGCATCCTCTCCTTCATCCCTCCTGACGGCAACT  
CCGCTGCTCGCTACCACGTCAGTGCACAGAACCTCGTTGCCATTCCAGTCTATGTCAAACATAGCATC  
AGCTTCCGGGACAGCAGTTCACCTGGACGCTTTGAAATCAGGTGGGACCAAGCAGACCATGGGGAAGA  
CCATAGAGGGTGTGATTGTCACCAGCCAGATGCCCAAAGGAGTCTGAATATGAGCCTCACTCCATCTCA  
GGGACACACACGTTTGACCCCGTGACAAAGATGCTGTCTTGGGATGTAGAAAAATAAACCCACAGAAG  
CTGCCAAGTTTGAAGGGGACGATGGGTCTCCAGGTCCGAGCTTCTAAACCAGATGAGAACCCTACGATTA  
ACCTGCAGTTTAAAGATCCAGCAGCTGGCCATTTCTGGACTCAAAGTGAACCGTCTGGATATGTACGGGA  
GAAGTACAAGCCCTTTAAAGGCATCAAATACATGACCAAAGCCGGCAAGTTCCAAGTCCGAACC

**ACGGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR216775 representing NM\_001122820  
 Red=Cloning site Green=Tags(s)

MIHSLFLINSSGDIFLEKHWKSVVSRVCDYFFEAQERATEAENVPPVIPTPHHYLLSVYRHKIFFVAVI  
 QTEVPPLFVIEFLHRVVDTFQDYFGVCSEPVIKDNVVVVYEVLEEMLDNGFPLATESNILKELIKPPTIL  
 RTVVNTITGSTNVGDQLPTGQLSVVWRRRTGVKYTNNEAYFDVVEEIDAIIDKSGSTVTAEIQGVIDADCV  
 KL TGM PDL T L S F M N P R L L D D V S F H P C V R F K R W E S E R I L S F I P P D G N F R L L A Y H V S A Q N L V A I P V Y V K H S I  
 S F R D S S S L G R F E I T V G P K Q T M G K T I E G V I V T S Q M P K G V L N M S L T P S Q G T H T F D P V T K M L S W D V G K I N P Q K  
 L P S L K G T M G L Q V G A S K P D E N P T I N L Q F K I Q Q L A I S G L K V N R L D M Y G E K Y K P F K G I K Y M T K A G K F Q V R T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001122820

**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\\_001122820.1](#), [NP\\_001116292.1](#)

**RefSeq Size:** 3467 bp

**RefSeq ORF:** 1257 bp

**Locus ID:** 64933

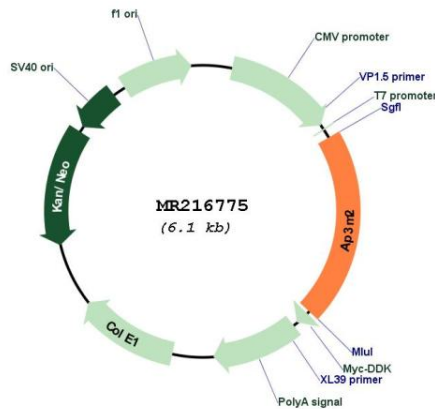
**UniProt ID:** [Q8R2R9](#)

**Cytogenetics:** 8 A2

**MW:** 46.9 kDa

**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 MR216775