

## Product datasheet for **MG205308**

### Atp6ap2 (BC014706) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6ap2 (BC014706) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp6ap2
Synonyms:	M8-9, APT6M8-9, ATP6M8-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205308 representing BC014706 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGTGCTGGTCTCTCTGTTCTTTCTGGTGGCGGGTGCTTTAGGGAATGAATTTAGCATATTA  
GATCGCCAGGGTCTGTTGTTTTCCGAAATGAAATTTGGCTATACCAGGAGATCGAATCCAGACGTAGC  
TGCACTGTCCATGGGCTTCTCTGTAAGGAAGACCTGTCTTGGCCAGGGCTTGCCGTGGTAACCTATTC  
CACCGGCCACGGGCTACCATTATGGTGATGGTGAAGGGGTGGATAAACTGGCACTTCCGGCAGGCAGCG  
TCATCTCTACCCTTTGGAGAATGCAGTTCCTTTTAGTCTAGACAGCGTTGCAAATTCATTCACTCCTT  
ATTTTCGGAGGAAACACCTGTAGTTTTGCAAGTTGGCTCCCAGCGAGGAGAGAGTGTATATGGTGGGGAAA  
GCAAACCTCGGTGTTTGAAGACCTTTCACTCACATTGCGGCAGCTCCGTAACCGCCTGTTTCAAGAAAAC  
CCCTTCTCAACTCTTCCCCTCAATTCTCTGAGTAGGAATAATGAGGTTGACCTGCTCTTTCTCTCCGA  
ACTGCAAGTGCTACATGATATTTCCAGTTTGTGCTCGTCATAAGCATCTAGCCAAGGACCATTACCC  
GACTTGTATTCAATTGGAGCTGGCAGGTTGGATGAACTTGGGAAGCGTTATGGGGAAGACTCTGAACAGT  
TCAGGGATGCTTCTAAGATCCTTGTGATGCTCTCAAAAGTTTGAGATGACATGTACAGTCTCTATGG  
TGGGAACGCAGTGGTAGAGTTAGTACTGTCAAATCATTTCGACACATCCCTTGTGAGGAAGTCAAGGACC  
ATCCTTGAGGCAAAACAAGAGAACACCCAAAGTCCCTATAACCTTGCATATAAGTATAATTTGGAGTATT  
CAGTGGTTTTCAACTTGGTACTGTGATTATGATCGGCTTGGCCTTGGCTGTGATAATCACCTCTTACAA  
CATTTGGAATATGGATCCTGGATATGATAGCATCATCTATAGGATGACAAATCAGAAGATTCGAATAGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205308 representing BC014706  
 Red=Cloning site Green=Tags(s)

MAVLVLLFFLVAGALGNEFSILRSPGSVVFNRNGNWPIPGDRIPDVAALSMGFSVKEDLSWPLAVGNLF  
 HRPRATIMVMVKGVDKLALPAGSVISYPLENAVPPSLDSVANSIHSLFSEETPVVLQLAPSEERVYMGK  
 ANSVFEDLSVTLRQLRNRLFQENSLNLNPLNSLSRNNEVDLLFLSELQVLHDISSLLSRHKHLAKDHSP  
 DLYSLELAGLDELGKRYGEDSEQFRDASKILVDALQKFADDMYSLYGGNAVVELVTVKSFDTSLVRKSRT  
 ILEAKQENTQSPYNLAYKYNLEYSVFNVLWIMIGLALAVIITSYNIWNMDPGYDSIIYRMTNQKIRID

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC014706

**ORF Size:** 1050 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:** [BC014706.1](#)

**RefSeq Size:** 1943 bp

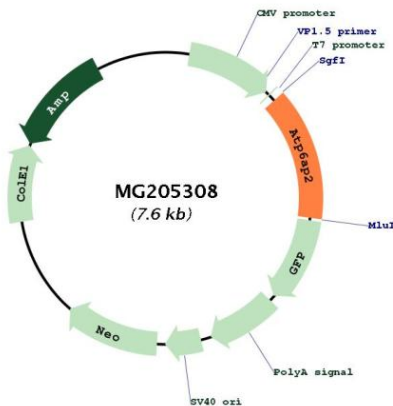
**RefSeq ORF:** 1052 bp

**Locus ID:** 70495

**Cytogenetics:** X A1.1

**Gene Summary:** Functions as a renin and prorenin cellular receptor. May mediate renin-dependent cellular responses by activating ERK1 and ERK2. By increasing the catalytic efficiency of renin in AGT/angiotensinogen conversion to angiotensin I, it may also play a role in the renin-angiotensin system (RAS) (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG205308