

## Product datasheet for **MC218663**

### Agxt2 (NM\_001031851) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Agxt2 (NM_001031851) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Agxt2
Synonyms:	AI303810; AI663818
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218663 representing NM\_001031851  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTCTAGCCTGGAGAAATTTGCAGAAACCCTTTTATCTGGAGACTTCTCTCAGAATACTCCAGATGC  
 GTCCATCCCTGAGCTTAGGTGCTTCCCGATAGCTGTGCCAAGCTCACTTTCATACAAAGCACAGCAT  
 GCCACCGTGTGACTTCTCACCTGAGAAATACCAGTCCCTGGCCTACAGCCGTGTGCTGGCGATTACAAG  
 CAGCATCTTTCTCTGTGGATACAGCCTATTTCCGGAAGCCTTTGCTACTCCACCAGGGACACATGGAGT  
 GGCTCTTTGATTCTGAGGAAACAGATACCTGGACTTCTTCTCTGGGATTGCTACTGTTAGTGTGGTCA  
 CTGCCACCGAAGGTAAGTGCAGTGGCAAAAAACAGATAGACCGCCTGTGGCATAACAAGTTCTGTCTTC  
 TTCCACTCTCCGATGCATGAATATGCAGAGAAGCTCTCAGCACTCCTTCTGAGCCTCTTAAGGTCATTT  
 TCTTGGTGAACAGTGGATCAGAAGCCAACGACCTGGCCATGGTGTGGCCCGAGCACACTCGAATCACAC  
 AGACATCATATCTTTAGAGGAGCCTATCACGGATGCAGTCCCTATACACTTGGCCTGACAAATGTCGGA  
 ATCTACAAGATGGAAGTCCCTGGTGGGATAGGCTGCCAATCAACAATGTGCCCAGATGTTTTCCGTGGCC  
 CTTGGGGAGGAATCCATTGTCGAGATTCTCCAGTGCAAACAGTGAGGGACTGCAGCTGTGCTCCAGGTCC  
 AAATGGGCAGGGAGGAAGGCGAGAATGCCATTCTAACATCAAAATGCTGTGACTTGTGTATGTGTGTATGT  
 TTTGCTACAGACTGTGCCAAGCTAAAGAACGGTATATCGAACAAATCAAAGACACACTGAACACTTCTG  
 TGGCCACATCAATTGCTGGATTTTTGCAGAGCCAATCAAGGTGTGAATGGTGTGTCCAGTACCCAAA  
 GGAGTTTCTGAAGGAAGCCTTTGCGTTGGTCCGAGAGCGGGGAGGTGTGTGCATCGCAGATGAAGTGCAG  
 ACAGGCTTTGGCAGGCTGGGCTCACTTCTGGGTTTCCAGACACATGATGTACTTCTGACATTGTCA  
 CCATGGCTAAAGGATTGAAATGGCTTCCCATGGCTGCAGTTGTGACCACTCCAGAAATGCGAAGTC  
 TTTGGCTAAACGTTTGTTCACCTTCAGCACATTTGGAGGAAATCCCTGGCCTGCGCCATTGGATCTGCT  
 GTGCTTGAGGTGATTGAAGAAGAAAATCTCCAGAGAAACAGTCAAGAAGTTGGCACCTACATGCTGCTGA  
 AGTTTGTAAAGCTTCGGGACGAATTTGATATCGTTGGGGATGTCCGAGGCAAAGGCCTTATGGTGGGGAT  
 AGAGATGGTTCAAGACAAGATAAGCCGACAACCTTCTCTAAAACAGAAGTCAATCAAATCCATGAGGAC  
 TGCAAAGACATGGGGCTCCTAGTGGGTAGAGGTGGTAATTTTTCTCAGACTTTTCGAATTGTGCCCCGA  
 TGTGTGCACGAAGATGGAAGTAGATTTTGCATATGAAGTATTTTCGAGCTGCCTTAATTCACACATGGA  
 GAGAAGAGCTAAG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001031851

**Insert Size:** 1626 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001031851.1](#), [NP\\_001027021.1](#)

**RefSeq Size:** 1825 bp

**RefSeq ORF:** 1626 bp

**Locus ID:** 268782

**Cytogenetics:** 15 A1

**Gene Summary:** Can metabolize asymmetric dimethylarginine (ADMA) via transamination to alpha-keto-delta-(NN-dimethylguanidino) valeric acid (DMGV). ADMA is a potent inhibitor of nitric-oxide (NO) synthase, and this activity provides mechanism through which the kidney regulates blood pressure.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (3) uses alternate, in-frame donor and acceptor splice sites in the mid-coding region compared to variant 1. The resulting isoform (3) is longer containing an internal protein segment not found in isoform 1.