

Product datasheet for **RN210398**

Agxt2 (NM_031835) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agxt2 (NM_031835) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Agxt2
Synonyms:	AGT2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN210398 representing NM_031835
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCTCTAGCCTGGAGAACATTGCAGAAAGCTTTCTACCTGGAGACCTCTCTGAGAATCCTCCAGATGC
GTCCATCCCTGAGCTGTGCTTCTCGGATATATGTACCCAAGCTCACTCTTCATACAAAGCACAAACATGCC
ACCATGTGACTTCTCACCTGAGAAATACCAAGTCTCTGGCCTACAACCATGTCCTGGAGATTCATAAGCAG
CACCTTCTCCTGTGAATACAGCCTATTTCCAGAAGCCTTTGCTGCTCCACCAGGGACACATGGAATGGC
TCTTTGATTGGAAAGGAAACAGATACCTGGACTTCTTCTCTGGGATTGTAAGTGTGGTGTGGTCACTG
CCACCCGAAGGTAAGTGTGGCAAAAAAGCAGATGGACCGCCTGTGGCATAACAAGTCTGTCTTCTTC
CACTCTCCGATGCATGAATATGCAGAGAGGCTGTGAGCCTCTTCTGAGCCTCTTAAGGTCATTTTCT
TGGTAAACAGTGGATCAGAAGCCAATGACCTGGCCATGGTATGGCCAGGGCATACTCGAACACACAGA
CATCATTTCTTTAGAGGAGCCTATCATGGATGTAGTCCCTACACACTTGGTCTGACGAATGTAGGAATT
TACAAGATGAAAGTCCCCAGTACGATAGCCTGCCAATCGACAATGTGCCAGATGTTTTCCGTGGGCCTT
GGGGAGGAAGCCACTGTGGGATTCTCCGGTGCAACAGTCAGGAAATGCAGCTGTGCTCCAGATGGCTG
CCAAGCTAAAGAACGGTACATTGAACAGTTCAAAGACACACTGAACACTTCTGTGGCCACGTCAATTGCT
GGATTTTTTGCAGAGCCAATTAAGGTGTGAATGGTGTGTCCAGTACCCAAAGGAGTTTCTGAAGGAAG
CCTTGGCACTGGTTCGAGAGAGGGGAGGTGTATGCATTGCAGATGAAGTGCAGACAGGCTTTGGAAGGCT
GGGCTCTCACTTCTGGGGTTTCCAAACACATGATACAATGCCTGACATTGTCACCATGGCTAAAGGGATT
GGAAATGGCTTCCCATGGCAGCAGTTGTGACCACTCCAGAAATGCGAGCTCTTTGGCTAAACACTTAC
ATCACTTCAGCACATTTGGAGGAAGTCCCCTGGCCTGCGCCATTGGATCTGCTGTGCTTGGAGTATTGA
AGAAGAAAATCTCCAGAGAAACAGTCAAGAAGTTGGCACCTACATGCTGCTAAAGTTTGCTAAGCTTCGG
GATGAATTTGACATCGTTGGGGATGTGCGAGGCAAGGCCTTATGGTGGGGATAGAGATGGTTCAAGACA
AGATAAGCCGCCAGCCTTCTCTAAAACAGAAGTCAATCAAATCCATGAGGACTGCAAAGACATGGGGCT
CCTAGTGGGTAGAGGTGGTAATTTTTCTCAGACTTTCGCAATGCGCCCCGATGCGTGTCAAAAGCTG
GAAGTGGATTTGCATTTGAAGTATTTCTGCTTAACTCAACACATGGAGAGAAGAGCTAAGTAA

ACGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_031835

Insert Size: 1539 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_031835.2](#), [NP_114023.1](#)

RefSeq Size: 1946 bp

RefSeq ORF: 1539 bp

Locus ID: 83784

UniProt ID: [Q64565](#)

Cytogenetics: 2q16

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 (By similarity).[UniProtKB/Swiss-Prot Function]