

## Product datasheet for **SC305360**

### AGXT2 (NM\_031900) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AGXT2 (NM\_031900) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** AGXT2  
**Synonyms:** AGT2; BAIBA; DAIBAT  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_031900 edited  
ATGACTCTAATCTGGAGACATTTGCTGAGACCCTTGTGCCTGGTCACTTCCGCTCCCAGG  
ATCCTTGAGATGCATCCTTTCTGAGCCTAGGTACTTCCCGGACATCAGTAACCAAGCTC  
AGTCTTCATACAAGCCAGAATGCCTCCATGTGACTTCATGCCTGAAAGATAACAGTCC  
CTTGGCTACAACCGTGTCTGGAATCCACAAGGAACATCTTTCTCCTGTGGTGACGGCA  
TATTTCCAGAAACCCCTGCTGCTCCACCAGGGGCACATGGAGTGGCTCTTTGATGCTGAA  
GGAAGCAGATACCTGGATTTCTTTCCGGGATTGTTACTGTGAGTGGCCATTGCCAC  
CCAAAGGTGAATGCAGTGGCACAAGCAGCTCGGCCGCCTGTGGCATAACAAGCACCGTC  
TTCTTCCACCCTCAATGCATGAATATGCAGAGAAGCTTGCCGCCTTCTCCTGAGCCT  
CTTAAGGTCATTTCTTGGTGAACAGTGGCTCAGAAGCCAATGAGCTGGCCATGCTGATG  
GCCAGGGCGCACTCAAACAACATAGACATCATTTCTTTCAGAGGAGCCTACCATGGATGC  
AGTCCTTACACACTTGGCTTGCACAAACGTAGGGACCTACAAGATGGAACCTCCCTGGTGGG  
ACAGGTTGCCAACCAACAATGTGTCCAGATGTTTTCTGTGGCCCTTGGGGAGGAAGCCAC  
TGTGAGATTCTCCAGTCAAACAATCAGGAAGTGCAGCTGTGCACCAGACTGCTGCCAA  
GCTAAAGATCAGTATATTGAGCAATTCAAAGATACGCTGAGCACATCTGTGGCCAAGTCA  
ATTGCTGGATTTTTCGAGAACCTATTCAGGTGTGAATGGAGTGTCCAGTACCCAAAG  
GGGTTTCTAAAGGAAGCCTTTGAGCTGGTGCAGCAAGGGGAGGCGTGTGCATTGCAGAT  
GAAGTGCAGACAGGATTTGGAAGTTGGGCTCTCACTTCTGGGGCTTCCAAACCCACGAT  
GTCCTGCCTGACATTGTCACCATGGCTAAAGGGATTGGGAATGGCTTTCCATGGCAGCA  
GTCATAACCACTCCAGAGATTGCCAAATCTTTGGCGAAAATGCCTGCAGCACTTCAACACC  
TTTGGAGGAACCCCATGGCCTGTGCCATTGGATCTGCTGTGCTTGGAGTATTAAAGAA  
GAAAATCTACAGGAAAACAGTCAAGAAGTTGGACCTACATGTTACTAAAGTTTGCTAAG  
CTGCGGGATGAATTTGAAATGTTGGAGACGTCCGAGGCAAAGGTCTCATGATAGGCATA  
GAAATGGTGCAGGATAAGATAAGCTGTCGGCCTTCCCCGTGAAGAAGTAAATCAGATC  
CATGAGGACTGCAAGCACATGGGACTCCTCGTTGGCAGAGGCAGCATTTTTTCTCAGACA  
TTTCGATTGCGCCCTCAATGTGCATCACTAAACCAGAAGTTGATTTGCAGTAGAAGTA  
TTTCGTTCTGCCTTAACCAACACATGGAAAGAAGAGCTAAGTAA



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_031900
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_031900.1.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_031900.1</a></u> , <u><a href="#">NP_114106.1</a></u>
<b>RefSeq Size:</b>	2165 bp
<b>RefSeq ORF:</b>	1545 bp
<b>Locus ID:</b>	64902
<b>UniProt ID:</b>	<u><a href="#">Q9BYV1</a></u>
<b>Cytogenetics:</b>	5p13.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alanine, aspartate and glutamate metabolism
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a class III pyridoxal-phosphate-dependent mitochondrial aminotransferase. It catalyzes the conversion of glyoxylate to glycine using L-alanine as the amino donor. It is an important regulator of methylarginines and is involved in the control of blood pressure in kidney. Polymorphisms in this gene affect methylarginine and beta-aminoisobutyrate metabolism, and are associated with carotid atherosclerosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>