

## Product datasheet for RN216546

### Agxt (NM\_001276706) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Agxt (NM\_001276706) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Agxt  
**Synonyms:** AGT; Spat; SPT  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN216546 representing NM\_001276706  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCTCGCACCAGCTGCTGGTGCCACCCAGAGGCCCTGAGCAAGCCCTGTCAATTCCTAAGAGGC  
 TCCTGTTGGGTCCGGGACCTCCAACCTGGCTCCTCGTGTGCTAGCAGCTGGAAGTCTGAGGATGATTGG  
 CCACATGCAAAAAGAGATGTTTCAGATCATGGATGAGATCAAGCAGGGCATCCAGTATGTGTTCCAGACC  
 AGGAACCCCTCACACTGGTTGTGAGCGGCTCAGGACATTGTGCCATGGAGACTGCCTGTTCAACCTCC  
 TGGAGCCTGGGGACTCCTTTCTGTGGGAACCAATGGCATCTGGGGGATACGGGCTGCAGAGATCGCTGA  
 GCGGATTGGAGCCCGTGTGCACCAGATGATCAAGAAGCCTGGAGAACATTACACACTGCAGGAGGTGGAG  
 GAGGGCCTGGCTCAGCATAAACCAGTGTGCTGTTCTGACCCACGGGGAGTCACTCCACTGGTGTGCTGC  
 AGCCCTGGATGGTTTCGGGGAGCTCTGCCACAGGTATCAGTGCCTACTCCTGGTGGACTCGGTGGCATC  
 ATTGGGCGGAGTCCCTATCTACATGGACCAACAAGGCATCGACATCTTGTACTCTGGCTCTCAGAAGTC  
 CTGAATGCCCCACCAGGGATCTCCCTCATCTCCTTCAACGACAAGGCCAAATCCAAGTCTACTCCCGGA  
 AGACAAAGCCAGTCTCCTTCTACACAGACATCACTTATTTGTCCAAGTTGTGGGGCTGTGAGGGCAAGAC  
 CAGAGTAATTCATACATAGTTGCCTGTATCAGCTTATACTGCCTGAGGGAGAGCCTAGCACTCATTTCA  
 GAGCAGGGCCTGGAGAATTCCTGGCGGCTCACAGGGAGGCTACAGCACATCTGCACAAGTGCCTGCGGG  
 AGTTGGGCTTAAAGTTCTTTGTGAAGGACCCGAAATCCGGCTACCTACAATCACCACCGTGACCGTGCC  
 TGCCGGCTACAACCTGGAGGGACATCGTCAGCTACGTGCTGGACCCTTCAACATTGAAATCTCTGGTGGT  
 CTTGGGCCCTCTGAGGATAAGGTGCTGCGGATTGGCTCCTGGGCTACAACGCCACCACAGAGAATGCGG  
 ACCGTGTAGCGGAGGCCCTGAGGGAGGCCCTGCAACATTGTCCTAAGAATAAATTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_001276706
<b>Insert Size:</b>	1179 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>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001276706.1</a></u> , <u><a href="#">NP_001263635.1</a></u>
<b>RefSeq Size:</b>	1628 bp
<b>RefSeq ORF:</b>	1179 bp
<b>Locus ID:</b>	24792
<b>UniProt ID:</b>	<u><a href="#">P09139</a></u>
<b>Cytogenetics:</b>	9q36
<b>Gene Summary:</b>	<p>This gene encodes alanine-glyoxylate aminotransferase, which catalyzes the interconversion of L-alanine and glyoxylate to pyruvate and glycine. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. The longer transcript variant includes an upstream translation start codon and a downstream translation start codon. The upstream start codon initiates the translation of the mitochondrial enzyme precursor while the downstream start codon initiates the translation of the peroxisomal enzyme (see PMID:2332438). [provided by RefSeq, Feb 2013]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. It contains an upstream start codon and a downstream start codon. Isoform 3, also known as the peroxisomal enzyme, is encoded from the downstream start codon, which is identical to the mature peptide of isoform 1, also known as the mitochondrial enzyme.</p>