

## Product datasheet for **RN215983**

### Agxt (NM\_001270659) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Agxt (NM\_001270659) 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:** >RN215983 representing NM\_001270659  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCCCACCAGGGATCTCCCTCATCTCCTTCAACGACAAGGCCAAATCCAAAGTCTACTCCCGGAAGAC  
AAAGCCAGTCTCCTTCTACACAGACATCACTTATTTGTCCAAGTTGTGGGGCTGTGAGGGCAAGACCAGA  
GTGTTCTTTTCTATTCCCAGAATTCATCATACGTTGCCTGTCATCAGCTTATACTGCCTGAGGGAGAGC  
CTAGCACTCATTTAGAGCAGGGCCTGGAGAATTCCTGGCGGCGTCACAGGGAGGCTACAGCACATCTGC  
ACAAGTGCCTGCGGGAGTTGGGCTTAAAGTTCTTTGTGAAGGACCCGAAATCCGGCTACCTACAATCAC  
CACCGTGACCGTGCCTGCCGGCTACAACCTGGAGGGACATCGTCAGCTACGTGCTGGACCATTCAACATT  
GAAATCTCTGGTGGTCTTGGGCCCTCTGAGGATAAGGTGCTGCGGATTGGCCTCTGGGCTACAACGCCA  
CCACAGAGAATGCGGACCGTGTAGCGGAGGCCCTGAGGGAGGCCCTGCAACATTGCTTAAGAATAAATT  
GTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001270659  
**Insert Size:** 564 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).



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<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_001270659.1</a></u> , <u><a href="#">NP_001257588.1</a></u>
<b>RefSeq Size:</b>	957 bp
<b>RefSeq ORF:</b>	564 bp
<b>Locus ID:</b>	24792
<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 (2) has multiple differences, compared to variant 1. The resulting isoform (2) is much shorter and has a distinct N-terminus, compared to isoform 1. The cellular location of isoform 2 is not determined.</p>