

## Product datasheet for RN214253

### Agxt (NM\_030656) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Agxt (NM_030656) 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:	>RN214253 representing NM_030656 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTTCCGGATGTTGGCCAAGGCCAGTGTGACGCTGGGCTCCAGGGCAGCAAGTTGGGTACGGAACATGG  
GCTCGCACCAGCTGCTGGTGCCACCCCCAGAGGCCCTGAGCAAGCCCCTGTCAATTCCTAAGAGGCTCCT  
GTTGGGTCGGGACCCTCCAACCTGGCTCCTCGTGTGCTAGCAGCTGGAAGTCTGAGGATGATTGGCCAC  
ATGCAAAAAGAGATGTTTCAGATCATGGATGAGATCAAGCAGGGCATCCAGTATGTGTTCCAGACCAGGA  
ACCCCTCACACTGGTTGTCAGCGGCTCAGGACATTGTGCCATGGAGACTGCCCTGTTCAACCTCCTGGA  
GCCTGGGGACTCCTTTCTGTGGGAACCAATGGCATCTGGGGGATACGGGCTGCAGAGATCGCTGAGCGG  
ATTGGAGCCCGTGTGCACCAGATGATCAAGAAGCCTGGAGAACATTACACACTGCAGGAGGTGGAGGAGG  
GCCTGGCTCAGCATAAACCAAGTGTGCTGTTCTGACCCACGGGGAGTCACTCCACTGGTGTGCTGCAGCC  
CCTGGATGGTTTCGGGGAGCTCTGCCACAGGTATCAGTGCCTACTCCTGGTGGACTCGGTGGCATCATTG  
GGCGAGTCCCTATCTACATGGACCAACAAGGCATCGACATCTTGTACTCTGGCTCTCAGAAGGCTCTGA  
ATGCCCCACAGGGATCCTCCTCATCTCCTTCAACGACAAGGCCAAATCCAAAGTCTACTCCCGGAAGAC  
AAAGCCAGTCTCCTTCTACACAGACATCACTTATTTGTCCAAGTTGTGGGGCTGTGAGGGCAAGACCAGA  
GTAATTATCATACGTTGCCTGTCATCAGCTTATACTGCCTGAGGGAGAGCCTAGCACTCATTTCAGAGC  
AGGGCCTGGAGAATTCCTGGCGCGTACAGGGAGGCTACAGCACATCTGCACAAGTGCCTGCGGGAGTT  
GGGCTTAAAGTCTTTGTGAAGGACCCGAAATCCGGCTACCTACAATACCACCGTGACCGTGCCTGCC  
GGCTACAACCTGGAGGGACATCGTCAGCTACGTGCTGGACCACTTCAACATTGAAATCTCTGGTGGTCTTG  
GGCCCTCTGAGGATAAAGGTGCTGCGGATGGCCTCCTGGGCTACAACGCCACCACAGAGAATGCGGACCG  
TGTAGCGGAGGCCCTGAGGGAGGCCCTGCAACATTGTCTAAGAATAAATTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_030656
<b>Insert Size:</b>	1245 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>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>	<a href="#">NM_030656.2</a> , <a href="#">NP_085914.2</a>
<b>RefSeq Size:</b>	1628 bp
<b>RefSeq ORF:</b>	1245 bp
<b>Locus ID:</b>	24792
<b>UniProt ID:</b>	<a href="#">P09139</a>
<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. The upstream start codon initiates the translation of the longest isoform (1), which is a mitochondrial enzyme precursor. The mature peptide, also known as the mitochondrial enzyme, is identical to isoform 3, also known as the peroxisomal enzyme.</p>