

## Product datasheet for RR214253

### Agxt (NM\_030656) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Agxt (NM_030656) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agxt
Synonyms:	AGT; Spat; SPT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214253 representing NM_030656 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCCGGATGTTGGCCAAGGCCAGTGTGACGCTGGGCTCCAGGGCAGCAAGTTGGGTACGGAACATGG  
GCTCGCACCAGCTGCTGGTGCCACCCCCAGAGGCCCTGAGCAAGCCCCTGTCAATTCCTAAGAGGCTCCT  
GTTGGGTCGGGACCCTCCAACCTGGCTCCTCGTGTGCTAGCAGCTGGAAGTCTGAGGATGATTGGCCAC  
ATGCAAAAAGAGATGTTTCAGATCATGGATGAGATCAAGCAGGGCATCCAGTATGTGTTCCAGACCAGGA  
ACCCCCCTCACACTGGTTGTCAGCGGCTCAGGACATTGTGCCATGGAGACTGCCCTGTTCAACCTCCTGGA  
GCCTGGGGACTCCTTTCTGTGGGAACCAATGGCATCTGGGGGATACGGGCTGCAGAGATCGCTGAGCGG  
ATTGGAGCCCGTGTGCACCAGATGATCAAGAAGCCTGGAGAACATTACACACTGCAGGAGGTGGAGGAGG  
GCCTGGCTCAGCATAAACCAAGTGTGCTGTTCTGACCCACGGGGAGTCACTCCACTGGTGTGCTGCAGCC  
CCTGGATGGTTTCGGGGAGCTCTGCCACAGGTATCAGTGCCTACTCCTGGTGGACTCGGTGGCATCATTG  
GGCGGAGTCCCTATCTACATGGACCAACAAGGCATCGACATCTTGTACTCTGGCTCTCAGAAGGTCTGA  
ATGCCCCACAGGGATCTCCCTCATCTCCTTCAACGACAAGGCCAAATCCAAAGTCTACTCCCGGAAGCA  
AAAGCCAGTCTCCTTCTACACAGACATCACTTATTTGTCCAAGTTGTGGGGCTGTGAGGGCAAGACCAGA  
GTAATTATCATACGTTGCCTGTCATCAGCTTATACTGCCTGAGGGAGAGCCTAGCACTCATTTCAGAGC  
AGGGCCTGGAGAATTCCTGGCGGCTCACAGGGAGGCTACAGCACATCTGCACAAGTGCCTGCGGGAGTT  
GGGCTTAAAGTCTTTGTGAAGGACCCGAAATCCGGCTACCTACAATACCACCGTGACCGTGCCTGCC  
GGCTACAACCTGGAGGGACATCGTCAGCTACGTGCTGGACCACTTCAACATTGAAATCTCTGGTGGTCTTG  
GGCCCTCTGAGGATAAAGGTGCTGCGGATTGGCCTCCTGGGCTACAACGCCACCACAGAGAATGCGGACCG  
TGTAGCGGAGGCCCTGAGGGAGGCCCTGCAACATTGTCTAAGAATAAATTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR214253 representing NM\_030656  
Red=Cloning site Green=Tags(s)

MFRMLAKASVTLGSRAASWVRNMGSHQLLVPPPEALSKPLSIPKRLLLGPGPSNLAPRVLAAGSLRMIGH  
 MQKEMFQIMDEIKQGIQYVFQTRNPLTLVYSGSGHCAMETALFNLLPGDSFLVGTNGIWGIRAAEIAER  
 IGARVHQMIKKPGEHYTLQEVEEGLAQHKPVLLFLTHGESSTGVLQPLDGFGECHRYQCLLLVDSVASL  
 GGVPYIMDQQGIDILYSGSQKVLNAPPGISLISFNDKAKSKVYSRKTTPVSYFYTDITYLSKLWGCEGKTR  
 VIHHTLPVISLYCLRESLALISEQGLENSWRRHREATAHLHKCLRELGLKFFVKDPEIRLPTITTTVPVA  
 GYNWRDIVSYVLDHFNIEISGGLGPSEDKVLRIGLLGYNATTENADRVAEALREALQHCPKNKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

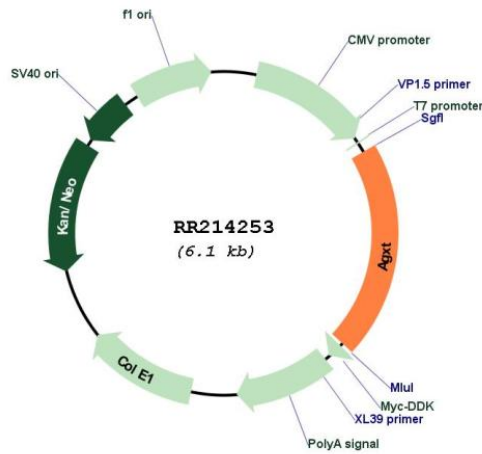
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_030656

<b>ORF Size:</b>	1242 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>MW:</b>	45.8 kDa
<b>Gene Summary:</b>	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]