

Product datasheet for **RR216546**

Agxt (NM_001276706) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agxt (NM_001276706) 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:	>RR216546 representing NM_001276706 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCTCGCACCAGCTGCTGGTGCCACCCAGAGGCCCTGAGCAAGCCCTGTCAATTCCTAAGAGGC
TCCTGTTGGGTCCGGACCTCCAACCTGGCTCCTCGTGTGCTAGCAGCTGGAAGTCTGAGGATGATTGG
CCACATGCAAAAAGAGATGTTTCAGATCATGGATGAGATCAAGCAGGGCATCCAGTATGTGTTCCAGACC
AGGAACCCCTCACACTGGTTGTGAGCGGCTCAGGACATTGTGCCATGGAGACTGCCCTGTTCAACCTCC
TGGAGCCTGGGGACTCCTTTCTGTGGGAACCAATGGCATCTGGGGGATACGGGCTGCAGAGATCGCTGA
GCGGATTGGAGCCCGTGTGCACCAGATGATCAAGAAGCCTGGAGAACATTACACACTGCAGGAGGTGGAG
GAGGGCCTGGCTCAGCATAAACCAGTGTGCTGTTCTGACCCACGGGGAGTCACTCCACTGGTGTGCTGC
AGCCCCTGGATGGTTTCGGGGAGCTCTGCCACAGGTATCAGTGCCTACTCCTGGTGGACTCGGTGGCATC
ATTGGGCGGAGTCCCTATCTACATGGACCAACAAGGCATCGACATCTTGTACTCTGGCTCTCAGAAGGTC
CTGAATGCCCCACCAGGGATCTCCCTCATCTCCTTCAACGACAAGGCCAAATCCAAGTCTACTCCCAGG
AGACAAAGCCAGTCTCCTTCTACACAGACATCACTTATTTGTCCAAGTTGTGGGGCTGTGAGGGCAAGAC
CAGAGTAATTCATCATAAGTTGCCTGTATCAGCTTATACTGCCTGAGGGAGAGCCCTAGCACTCATTCA
GAGCAGGGCCTGGAGAATTCCTGGCGGCTCACAGGGAGGCTACAGCACATCTGCACAAGTGCCTGCGGG
AGTTGGGCTTAAAGTTCTTTGTGAAGGACCCGAAATCCGGCTACCTACAATCACCACCGTGACCGTGCC
TGCCGGCTACAACCTGGAGGGACATCGTCAGCTACGTGCTGGACCCTTCAACATTGAAATCTCTGGTGGT
CTTGGGCCCTCTGAGGATAAGGTGCTGCGGATTGGCTCCTGGGCTACAACGCCACCACAGAGAATGCGG
ACCGTGTAGCGGAGGCCCTGAGGGAGGCCCTGCAACATTGTCCTAAGAATAAATTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216546 representing NM_001276706
Red=Cloning site Green=Tags(s)

MGSHQLLVPPPEALSKPLSIPKRLLLGPGPSNLAPRVLAAGSLRMIGHMQKEMFQIMDEIKQGIQYVFQT
 RNPLTLVVSGSGHCAMETALFNLLEPGDSFLVGTNGIWGIRAAEIAERIGARVHQMIKKPGEHYTLQEVE
 EGLAQHKPVLLFLTHGESSTGVLQPLDGFGECHRYQCLLLVDSVASLGGVPIYMDQQGIDILYSGSQKV
 LNAPPGISLISFNDKAKSKVYSRKT KPVSFYTDITYLSKLGWCEGKTRVIHHTLPVISLYCLRESLALIS
 EQGLENSWRRHREATAHLHKCLRELGLKFFVKDPEIRLPTITTTVTPAGYNWRDIVSYVLDHFNIEISGG
 LGPSEDKVLRIGLLGYNATTENADRVAEALREALQHCPKNKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

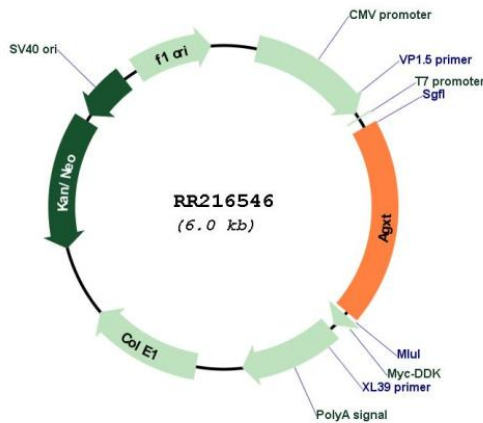
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001276706

ORF Size:	1176 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_001276706.1 , NP_001263635.1
RefSeq Size:	1628 bp
RefSeq ORF:	1179 bp
Locus ID:	24792
UniProt ID:	P09139
Cytogenetics:	9q36
MW:	43.4 kDa
Gene Summary:	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]