

## Product datasheet for RC212899

### AGXT (NM\_000030) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AGXT (NM_000030) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AGXT
Synonyms:	AGT; AGT1; AGXT1; PH1; SPAT; SPT; TLH6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212899 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCTCACAAGCTGCTGGTGACCCCCCAAGGCCCTGCTCAAGCCCCTCTCCATCCCCAACCAGC  
TCCTGCTGGGGCCTGGTCTTCCAACCTGCCTCCTCGCATCATGGCAGCCGGGGGCTGCAGATGATCGG  
GTCCATGAGCAAGGATATGTACCAGATCATGGACGAGATCAAGGAAGGCATCCAGTACGTGTTCCAGACC  
AGGAACCCACTCACACTGGTCACTCTGGCTCGGGACACTGTGCCCTGGAGGCCGCCCTGGTCAATGTGC  
TGGAGCCTGGGGACTCCTCCTGGTTGGGGCAATGGCATTGGGGGCGAGCGAGCCGTGGACATCGGGGA  
GCGCATAGGAGCCGAGTGCACCCGATGACCAAGGACCCCTGGAGGCCACTACACACTGCAGGAGGTGGAG  
GAGGGCCTGGCCAGCACAAGCCAGTGCTGCTGTTCTTAACCCACGGGGAGTCTGCCACCGCGTGTCTGC  
AGCCCCCTTGATGGCTTCGGGAACTCTGCCACAGGTACAAGTGCCTGCTCCTGGTGGATTCCGGTGGCATC  
CCTGGGCGGGACCCCTTTACATGGACCGGCAAGGCATCGACATCCTGTACTCGGGCTCCCAGAAGGCC  
CTGAACGCCCCCTCAGGGACCTCACTCATCTCCTTCAGTGACAAGGCCAAAAAGAAGATGTACTCCCGCA  
AGACGAAGCCCTTCTCCTTCTACCTGGACATCAAGTGGCTGGCCAACCTTCTGGGGCTGTGACGACCAGCC  
CAGGATGTACCATCACACAATCCCCGTATCAGCCTGTACAGCCTGAGAGAGAGCCTGGCCCTCATTGCG  
GAACAGGGCCTGGAGAACAGCTGGCGCCAGCACCCGAGGCCGCGGTATCTGCATGGGCGCTGCAGG  
CACTGGGGCTGCAGCTTTCGTGAAGGACCCGGCGTCCGGCTTCCACAGTCACCACTGTGGCTGTACC  
CGCTGGCTATGACTGGAGAGACATCGTCAGCTACGTCATAGACCACTTCGACATTGAGATCATGGGTGGC  
CTTGGGCCCTCCACGGGAAGGTGCTGCGGATCGGCCTGCTGGGCTGCAATGCCACCCGCGAGAATGTGG  
ACCGCGTGACGGAGGCCCTGAGGCGGCCCTGCAGCACTGCCCAAGAAGAAGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

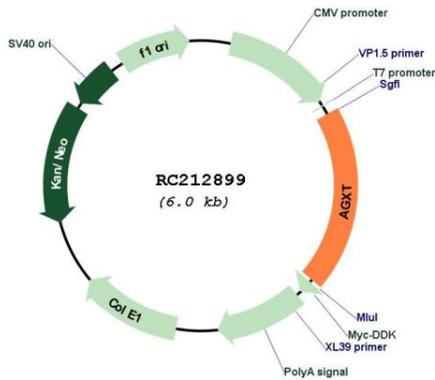


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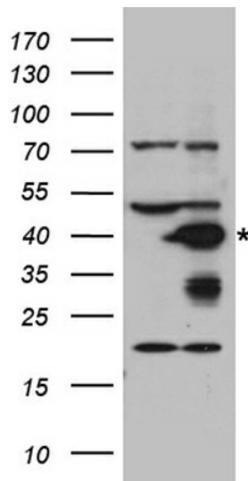


<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and 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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_000030.3</a>
<b>RefSeq Size:</b>	1611 bp
<b>RefSeq ORF:</b>	1179 bp
<b>Locus ID:</b>	189
<b>UniProt ID:</b>	<a href="#">P21549</a>
<b>Cytogenetics:</b>	2q37.3
<b>Domains:</b>	aminotran_5
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alanine, aspartate and glutamate metabolism, Glycine, serine and threonine metabolism, Metabolic pathways
<b>MW:</b>	43 kDa
<b>Gene Summary:</b>	This gene is expressed only in the liver and the encoded protein is localized mostly in the peroxisomes, where it is involved in glyoxylate detoxification. Mutations in this gene, some of which alter subcellular targetting, have been associated with type I primary hyperoxaluria. [provided by RefSeq, Jul 2008]

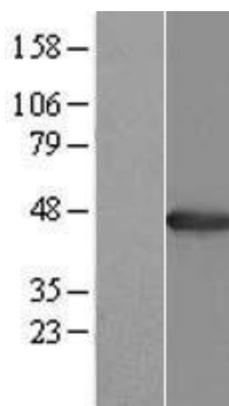
Product images:



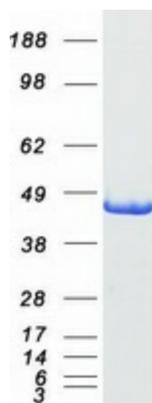
Circular map for RC212899



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY AGXT (Cat# RC212899, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AGXT antibody (Cat# [TA890098]). Positive lysates [LY424964] (100ug) and [LC424964] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY424964]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212899 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AGXT protein (Cat# [TP312899]). The protein was produced from HEK293T cells transfected with AGXT cDNA clone (Cat# RC212899) using MegaTran 2.0 (Cat# [TT210002]).