

Product datasheet for **SC117664**

AGXT (NM_000030) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGXT (NM_000030) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGXT
Synonyms:	AGT; AGT1; AGXT1; PH1; SPAT; SPT; TLH6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000030, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCTCACAAGCTGCTGGTGACCCCCCAAGGCCCTGCTCAAGCCCTCTCCATCCCCAACCAGC
TCCTGCTGGGGCCTGGTCTTCCAACCTGCCTCCTCGCATCATGGCAGCCGGGGGCTGCAGATGATCGG
GTCCATGAGCAAGGATATGTACCAGATCATGGACGAGATCAAGGAAGGCATCCAGTACGTGTTCCAGACC
AGGAACCCACTCACACTGGTCATCTCTGGCTCGGGACTGTGCCCTGGAGGCCGCCCTGGTCAATGTGC
TGGAGCCTGGGGACTCCTTCTGGTTGGGGCAATGGCATTGGGGGAGCGAGCCGTGGACATCGGGGA
GCGCATAGGAGCCCGAGTGCACCCGATGACCAAGGACCCTGGAGGCCACTACACTGCAGGAGGTGGAG
GAGGGCCTGGCCAGCACAAGCCAGTGTGCTGTTCTTAACCCACGGGGAGTCGTCACCCGGCGTGTGC
AGCCCCCTTGATGGCTTCGGGAACTCTGCCACAGGTACAAGTGCCTGCTCCTGGTGGATTGGTGGCATC
CCTGGGCGGGACCCCTTTACATGGACCGCAAGGCATCGACATCCTGTACTCGGGCTCCCAGAAGGCC
CTGAACGCCCTCCAGGGACCTCGCTCATCTCCTTCAAGTACAAGGCCAAAAAGAAGATGTACTCCCGCA
AGACGAAGCCCTTCTCCTTCTACCTGGACATCAAGTGGCTGGCCAACTTCTGGGGCTGTGACGACCAGCC
CAGGATGTACCATCACACAATCCCGTCATCAGCCTGTACAGCCTGAGAGAGAGCCTGGCCCTATTGCG
GAACAGGGCCTGGAGAACAGCTGGCGCCAGCACCAGCGAGCCGCGCGGTATCTGCATGGGCGCCTGCAGG
CACTGGGGCTGCAGCTCTTCTGTAAGGACCCGGCGCTCCGGCTTCCCACAGTCACTGTGGCTGTACC
CGCTGGCTATGACTGGAGAGACATCGTCAGTACGTATAGACCACTTCGACATGAGATCATGGGTGGC
CTTGGGCCTCCACGGGAAGGTGCTGCGGATCGGCCTGCTGGGTGCAATGCCACCCGAGAAATGTGG
ACCGCGTGACGGAGCCCTGAGGGCGGCCCTGCAGCACTGCCCAAGAAGAAGCTGTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000030 unedited GAATTTGTAATACGACTCACTATAGGGCGGCCCGAATTCGCACGAGCCAGGTTCCCGA GCGGCAGGTTGGGTGCGGACCCATGGCCTCTACAAGCTGCTGGTGACCCCCCAGGCC CTGCTCAAGCCCCCTCCATCCCCAACCAGCTCCTGCTGGGGCCTGGTCTTCCAACCTG CCTCTCGCATCATGGCAGCCGGGGGCTGCAGATGATCGGGTCCATGAGCAAGGATATG TACCAGATCATGGACGAGATCAAGGAAGGCATCCAGTACGTGTTCCAGACCAGGAACCCA CTCACACTGGTCATCTCTGGCTCAGGACACTGTGCCCTGGAGGCCGCCCTGGTCAATGTG CTGGAGCCTGGGGACTCCTTCTGGTTGGGGCCAATGGCATTGGGGGCAGCGAGCCGTG GACATCGGGGAGCGCATAGGAGCCCGAGTGCACCCGATGACCAAGGACCTGGAGGCCAC TACACTGCAGGAGGTGGAGGAGGGCCTGGCCAGCACAAGCCAGTGCTGTTCTTA ACCCACGNGAGTCGTCCACCGCGTGCTGCAGCCCTTGATGGCTTCGGNGAACTCTGC CACAGGTACAAGTGCCTGCTCCTGGTGGATTGGTGGCATCCCTGGGCGGACCCCCCTT TACATGGACCGGNCAGGCATCGACATCCTGTACTCGGGCTCCAGAAGCCCTGACGCC CTNACAGGACCTCGCTCATCTCCTTCAAGTACAGGCCAAAAGAAGATGACTCCCGCAA GAGAAGCCCTCCTCTACCTGGACATAATGGCTGGGCACTTCGGGGCTGGTGCACCAG CCCAGATGTACATNACACATTCCCGCATCAGCCTGTACAGCCGANAGAGAGGCTGCCCTC ATGCCGGACAGGCCTGAAAACAATGGCGCACACCGGAGGCCGCGGTATTGCTG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000030 unedited CCCCCCATTCGTGTGNNACCGCGNNCCGCATTCTAGGANCGGCTTTTTTTTTTTTTTTT TTTGTGAGGAGAGGTGGCCAGGCCCTTTATTAACATTCGCGGGAGGCTCATGGCCTGGG GACTGCAGCTCATTTGGAAGGCACTGGGTTTTGCGCCAAAGTGGACTGTTCCAGGAGGT GCCACTGGAGGAAAAGGCTGCCTGGGGCCAGGAGGCTGCCTGTTCTGCCTCCCGGG CTGGGTACAGTGGCTTCTGTCCCCAGGCTGGAGGACCTTGCAGGGTCTGTTTGTCTCT GATCCCTCAGGGTGGCATGGGACAGGTGTGTGCCAGTGCCAGCTGTGTGCCAGTGGGCA GGTACAGCTTCTTCTGGGGCAGTGTGCAGGGCCGCCCTCAGGGCCTCCGTACGCGG TCCACATTCGCGGGTGGCATTGCAGCCAGCAGGCCGATCCGACGACCTTCCCGTG GAGGGCCAAAGGCCACCCATGATCTCAATGTGGAAGTGGTCTATGACGTAGCTGACGATG TCTCTCCAGTCATAGCCAGCGGTACAGCCACAGTGGTACTGTGGGAAGCCGGAGCGCC GGGTCTTACGAAGAGCTGCAGCCTCAGTGCCTGCAGGCGCCATGCAGATACGCCGCG GCCTCGCGGTGTGGCGCCAGCTGTTCTCCAGGCCCTGTTCCGCAATGAGGGCCAGGCTC TCTCTCAGGCTGTACAGGCTGATGACGGGGAATTGTGNGAAGGACACCCCTTNGCCTGG TCGGCACAGCCCCAGAAGTTGGCCCCCACTTGATGTCCAGGCTACAGGGAAAGCCCTC TTCTTGGCGGAGATATATTCTTTATTGCCATGTACATTCCAGGAAATATTCGGCCCTCTG CAGCACCCCCACTC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000030
Insert Size:	1710 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).
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_000030.1 , NP_000021.1
RefSeq Size:	1600 bp
RefSeq ORF:	1179 bp
Locus ID:	189
UniProt ID:	P21549
Cytogenetics:	2q37.3
Domains:	aminotran_5
Protein Families:	Druggable Genome
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Glycine, serine and threonine metabolism, Metabolic pathways
Gene Summary:	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]