AGXT2L2 cDNA Clone – Alanine-Glyoxylate Aminotransferase 2-Like 2 (Human)

PRODUCT OVERVIEW

Product Name	AGXT2L2, cDNA Clone
Full Product Name	AGXT2L2 cDNA Clone
Product Gene Name	AGXT2L2 cdna clone
Sequence	atggccgcag accagcgccc gaaggccgac acgctggccc tgaggcaacg gctcatcagc tcttcctgca gactcttttt tcccgaggat cctgttaaga ttgtccgggc ccaagggcag tacatgtacg atgaacaggg ggcagaatac atcgattgca tcagcaatgt ggcgcacgtt gggcactgcc accctctcgt ggtccaagca gcacatgagc agaaccaggt gctcaacacc aacagccggt acctgcatga caacatcgtg gactatgcgc agaggctgtc agagaccctg ccggagcagc tctgtgtgtt ctatttcctg aattctgggt cagaagccaa tgacctggcc ctgaggctgg ctcgccacta cacgggacac caggacgtgg tggtattaga tcatgcgtat cacggccacc tgagctccct gattgacatc agtccctaca agttccgcaa cctggatggc cagaaggagt gggtccacgt ggcacctctc ccagacacct accggggccc ctaccgggag gaccacccca acccagctat ggcctatgcc aacgaggtga aacgtgtggt cagcagtgca caggagaagg gcaggaagat tgcagccttc ttcgctgagt ctctgcccag tgtgggaggg cagatcattc cccctgctgg ctacttctcc caagtggcag agcacatccg caaggccgga ggggtctttg ttgcagatga gatccaggtt ggctttggcc gggtaggcaa gcacttctgg gccttccagc tccagggaaa agacttcgtc cctgacatcg tcaccatggg caagtccatt ggcaacggcc accctgttgc ctgcgtggcc gcaacccagc ctgtggcgag ggcatttgaa gccaccggcg ttgagtactt caacacgttt gggggcagcc cagtgtcctg cgctgtgggg ctggccgtcc tgaatgtctt ggagaaggag cagctccagg atcatgccac cagtgtaggc agcttcctga tgcagctcct cgggcagcaa aaaatcaaac atcccatcgt cggggatgtc aggggtgttg ggctcttcat tggtgtggat ctgatcaaag atgaggccac aaggacacca gcaactgaag aggctgccta cttggtatca aggctgaagg agaactacgt tttgctgagc actgatggcc ctgggaggaa catcctgaag tttaagcccc caatgtgctt cagcctggac aatgcacggc aggtggtggc aaagctggat gccattctga ctgacatgga agagaaggtg agaagttgtg aaacgctgag gctccagccc taa
Molecular Weight	18,857 Da
OMIM	614683
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for AGXT2L2 cdna clone	MBS1276699 is a cDNA clone targeting AGXT2L2.
Other Notes	Small volumes of AGXT2L2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AGXT2L2. It may not necessarily be applicable to this product.

NCBI GI #	22902220
NCBI GeneID	85007
NCBI Accession #	BC037567
UniProt Secondary Accession #	Q8WYS6; Q96HW8; A8K7P6; B3KN36; D3DWP9
UniProt Related Accession #	Q8IUZ5
NCBI Official Full Name	Homo sapiens alanine-glyoxylate aminotransferase 2-like 2, mRNA
NCBI Official Synonym Full Names	5-phosphohydroxy-L-lysine phospho-lyase
NCBI Official Symbol	PHYKPL
NCBI Official Synonym Symbols	PHLU; AGXT2L2

UniProt Protein Name	5-phosphohydroxy-L-lysine phospho-lyase
UniProt Synonym Protein Names	Alanine--glyoxylate aminotransferase 2-like 2
UniProt Gene Name	PHYKPL
UniProt Synonym Gene Names	AGXT2L2
UniProt Entry Name	AT2L2_HUMAN
NCBI Protein Information	5-phosphohydroxy-L-lysine phospho-lyase
NCBI Summary for AGXT2L2	This is a nuclear gene encoding a mitochondrial enzyme that catalyzes the conversion of 5-phosphonooxy-L-lysine to ammonia, inorganic phosphate, and 2-aminoadipate semialdehyde. Mutations in this gene may cause phosphohydroxylysinuria. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]
UniProt Comments for AGXT2L2	AGXT2L2: Catalyzes the pyridoxal-phosphate-dependent breakdown of 5-phosphohydroxy-L-lysine, converting it to ammonia, inorganic phosphate and 2-aminoadipate semialdehyde. Belongs to the class-III pyridoxal-phosphate-dependent aminotransferase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transferase; EC 4.2.3.134 Chromosomal Location of Human Ortholog: 5q35.3 Cellular Component: mitochondrial matrix Molecular Function: identical protein binding; lyase activity; protein binding; pyridoxal phosphate binding Biological Process: collagen catabolic process; lysine catabolic process Disease: Phosphohydroxylysinuria
Research Articles on AGXT2L2	**1.** Phosphohydroxylysinuria is due to mutations in the AGXT2L2 gene and the resulting lack of activity of phosphohydroxylysine phospholyase in vivo.
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