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Product datasheet for RG212899

AGXT (NM_000030) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGXT (NM_000030) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AGXT
Synonyms:	AGT; AGT1; AGXT1; PH1; SPAT; SPT; TLH6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG212899 representing NM_000030
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCTCACAAGCTGCTGGTGACCCCCCCCAAGGCCCTGCTCAAGCCCCTCTCCATCCCCAACCAGC
TCCTGCTGGGGCCTGGTCCTTCCAACCTGCCTCCTCGCATCATGGCAGCCGGGGGGCTGCAGATGATCGG
GTCCATGAGCAAGGATATGTACCAGATCATGGACGAGATCAAGGAAGGCATCCAGTACGTGTTCCAGACC
AGGAACCCACTCACACTGGTCATCTCTGGCTCGGGACACTGTGCCCTGGAGGCCGCCCTGGTCAATGTGC
TGGAGCCTGGGGACTCCTTCCTGGTTGGGGCCAATGGCATTTGGGGGCAGCGAGCCGTGGACATCGGGGA
GCGCATAGGAGCCCGAGTGCACCCGATGACCAAGGACCCTGGAGGCCACTACACACTGCAGGAGGTGGAG
GAGGGCCTGGCCCAGCACAAGCCAGTGCTGCTGTTCTTAACCCACGGGGAGTCGTCCACCGGCGTGCTGC
AGCCCCTTGATGGCTTCGGGGAACTCTGCCACAGGTACAAGTGCCTGCTCCTGGTGGATTCGGTGGCATC
CCTGGGCGGGACCCCCCTTTACATGGACCGGCAAGGCATCGACATCCTGTACTCGGGCTCCCAGAAGGCC
CTGAACGCCCCTCCAGGGACCTCACTCATCTCCTTCAGTGACAAGGCCAAAAAGAAGATGTACTCCCGCA
AGACGAAGCCCTTCTCCTTCTACCTGGACATCAAGTGGCTGGCCAACTTCTGGGGCTGTGACGACCAGCC
CAGGATGTACCATCACACAATCCCCGTCATCAGCCTGTACAGCCTGAGAGAGAGCCTGGCCCTCATTGCG
GAACAGGGCCTGGAGAACAGCTGGCGCCAGCACCGCGAGGCCGCGGCGTATCTGCATGGGCGCCTGCAGG
CACTGGGGCTGCAGCTCTTCGTGAAGGACCCGGCGCTCCGGCTTCCCACAGTCACCACTGTGGCTGTACC
CGCTGGCTATGACTGGAGAGACATCGTCAGCTACGTCATAGACCACTTCGACATTGAGATCATGGGTGGC
CTTGGGCCCTCCACGGGGAAGGTGCTGCGGATCGGCCTGCTGGGCTGCAATGCCACCCGCGAGAATGTGG
ACCGCGTGACGGAGGCCCTGAGGGCGGCCCTGCAGCACTGCCCCAAGAAGAAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

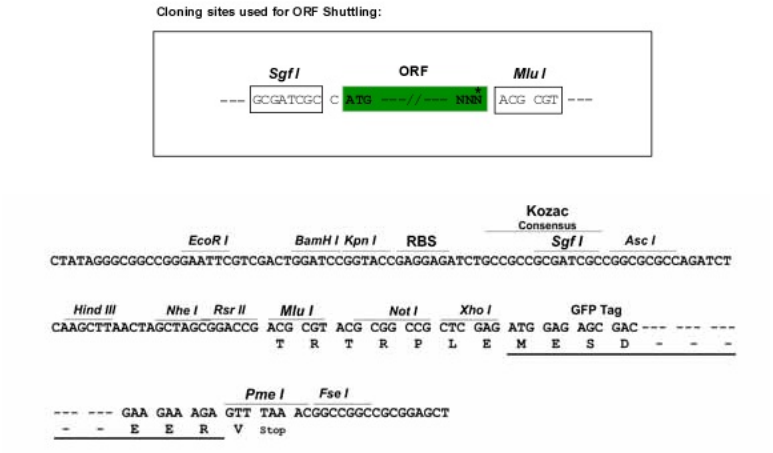
>RG212899 representing NM_000030
Red=Cloning site Green=Tags(s)

MASHKLLVTPPKALLKPLSIPNQLLLGPGPSNLPPRIMAAGGLQMIGSMSKDMYQIMDEIKEGIQYVFQT
RNPLTLVISGSGHCALEAALVNVLEPGDSFLVGANGIWGQRAVDIGERIGARVHPMTKDPGGHYTLQEVE
EGLAQHKPVLLFLTHGESSTGVLQPLDGFGELCHRYKCLLLVDSVASLGGTPLYMDRQGIDILYSGSQKA
LNAPPGTSLISFSDKAKKKMYSRKTKPFSFYLDIKWLANFWGCDDQPRMYHHTIPVISLYSLRESLALIA
EQGLENSWRQHREAAAYLHGRLQALGLQLFVKDPALRLPTVTTVAVPAGYDWRDIVSYVIDHFDIEIMGG
LGPSTGKVLRIGLLGCNATRENVDRVTEALRAALQHCPKKKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000030

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:
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_000030.3

RefSeq Size: 1600 bp

RefSeq ORF: 1179 bp

Locus ID: 189

UniProt ID: P21549

Cytogenetics: 2q37.3

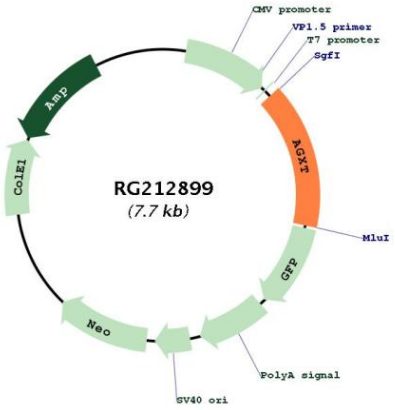
Domains: aminotran_5

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]

Product images:



Circular map for RG212899