

Product datasheet for **MG206504**

Agxt (NM_016702) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agxt (NM_016702) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Agxt
Synonyms:	AGT; Agt1; Agxt1; SPT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206504 representing NM_016702 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCGGATGTTGGCCAAGGCCAGTGTGACGCTGGGCTCCAGAGCGGCAGGTTGGTCCGGACCATGG
GCTCGTATCAGCTGCTGGTGCCACCGCCAGAGGCCCTGAGCAAGCCCCTGTCAGTTCCTACGAGGCTCCT
GTTGGGTCGGGGCCCTCAACCTGGCTCCCCGTGTGCTGGCGCGGGAAGTCTGAGAATGATTGGCCAC
ATGCAAAAAGAGATGCTTCAGATCATGGAGGAGATCAAGCAAGGCATCCAGTATGTGTTCCAGACCAGGA
ACCCCTCACACTGGTTGTCAGCGGTTCCAGGGCACTGCGCCATGGAGACTGCCCTGTTCAACCTCCTAGA
GCCTGGGACTCCTTTCTAACCGGAACCAATGGCATCTGGGGAATGCGGGCTGCAGAGATTGCTGATCGC
ATTGGAGCCCGTGTGACCAGATGATCAAGAAGCCTGGAGAACATTATACACTGCAGGAGGTGGAGGAGG
GCCTGGCCCAACAAACCGGTATTGCTGTTCTGGTCCACGGGGAGTCACTCCACTGGCGTGGTGCAGCC
CCTGGATGGTTTTGGGGAGCTCTGCCATAGGTACCAGTGCCTACTCCTGGTGGACTCAGTGGCATCCCTG
GGCGGGTTCTCTACATGGACCAACAAGGCATTGACATCATGTACTCTAGCTCTCAGAAGGTCTCTGA
ATGCCACCAGGGATCTCCCTCATCTCCTTCAACGACAAGGCCAAATACAAGGTCTACTCCCGAAGAC
AAAGCCAGTCTCCTTCTACACAGACATCACATACTTGGCCAAATGTGGGATGTGAGGGCGAGACCAGA
GTAATTCATACACACCTGTCCAGCTTATACTGCCTGAGGGAGAGCCTGGCACTATTGCGAGAG
AGGGCCTGGAGAATTGCTGGCGGCTCACAGGGAGGCTACAGCACATCTGCACAAACACCTGCAGGAGAT
GGGCTTAAAGTTCTTTGTGAAGGATCCGAAATCCGGCTACCCACAATACCACCGTGACTGTGCCTGCC
GGCTACAACCTGGAGGGACATCGTCAGCTATGTGCTGGACCACTTCCAGATTGAAATCTCTGGGGTCTTG
GGCCACTGAGGAGAGGGTGTACGGATTGGCCTCCTGGGCTACAACGCCACCACTGAGAATGTGGACCG
TGTGGCCGAGGCCCTGAGGGAGGCCCTGCAGCATTGTCTAAGAACAAGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206504 representing NM_016702
 Red=Cloning site Green=Tags(s)

MFRMLAKASVTLGSRAAGWVRTMGSYQLLVPPPEALSKPLSVPTRLLLGPGPSNLAPRVLAAGSLRMIGH
 MQKEMLQIMEEIKQGIQYVFQTRNPLTLVYSGSGHCAMETALFNLLEPGDSFLTGTNGIWMRAAEIADR
 IGARVHQMIIKKPGEHYTLQEVEEGLAQHKPVLLFLVHGESSTGVVQPLDGFGECHRYQCLLLVDSVASL
 GGVPPIYMDQQGIDIMYSSSQKVLNAPPGISLISFNDKAKYKVYSRKTTPVSYFYTDITYLAKLWGCEGETR
 VIHHTTPVTSLYCLRESLALIAEQGLENCWRRHREATAHLHKHLQEMGLKFFVKDPEIRLPTITTTVTPA
 GYNWRDIVSYVLDHFSIEISGGLGPTTEERVLRIGLLGYNATTENVDRVAEALREALQHCPKNKL

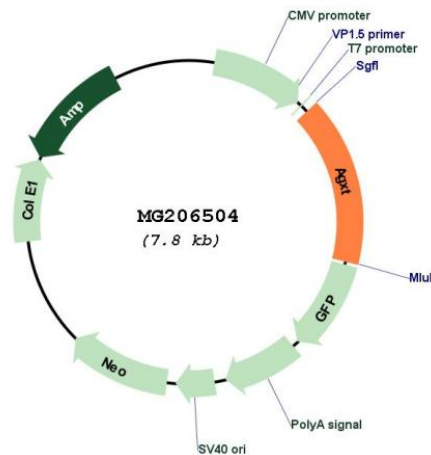
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016702

ORF Size:	1242 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_016702.3
RefSeq Size:	1517 bp
RefSeq ORF:	1245 bp
Locus ID:	11611
UniProt ID:	O35423
Cytogenetics:	1 47.0 cM
Gene Summary:	Dual metabolic roles of gluconeogenesis (in the mitochondria) and glyoxylate detoxification (in the peroxisomes).[UniProtKB/Swiss-Prot Function]