

Product datasheet for **MG206497**

Got1 (BC002057) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Got1 (BC002057) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Got1
Synonyms:	A1789014; cAspAT; cCAT; Got-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206497 representing BC002057 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCTCCATCAGTCTTTGCCAGGTTCCGCAAGCTCCTCCGGTCTGGTCTTTAAGCTCACTGCGG
ACTTCCGGGATGATCCAGATCCCCGCAAGGTTAACCTCGCGTGGGAGCGTACCGCACAGATGAATCTCA
GCCCTGGGTTTTGCCAGTAGTGAGGAAGGTCGAACAGAAGATTGCTAATGACAACAGCCTCAACCACGAG
TACCTGCCATCCTGGGCTGGCAGAGTCCGGAGCTGTGCTTTCGCCTAGTCTTGGGGACAACAGCC
CGGCTATCAGGGAGAATCGGGTTGGAGGGTGCAGTCTTTGGGAGGACAGGCGCTTTCGGATTGGAGC
TGACTTCTTAGGGCGATGGTACAATGGTACAGATAACAAGAACACACCAATCTACGTATCATCGCCAACC
TGGGAGAACCATAATGCTGTGTTTTCTGCCCGGTTTTAAGGACATTCCGCCCTATTGCTACTGGGATG
CGGAGAAGAGAGGACTGGACCTCCAGGGTTTCTGAATGATCTGGAGAATGCCCCCGAGTTCTCCATCTT
TGTCTCCATGCCTGTGCGCACAAACCAACAGGGACCCGACTCCAGAGCAGTGAAGCAGATCGCT
GCTGTCATGCAGCGCGTTTTCTGTTCCCTTCTTTGACTCAGCCTATCAGGGCTTTGCATCTGGAGACC
TAGAGAAAGATGCGTGGGCTATTCGCTATTTGTGTCTGAAGGCTTCGAGCTCTTCTGTGCCAGTCCTT
CTCCAAGAACTTCGGGCTCTACAATGAGAGAGTGGGAATCTGACCGTGGTCGAAAAGAGTCTGACAGC
GTCCTGCGGGTCTTTCCAGATGGAGAAGATTGTACGAATCACCTGGTCCAATCCCCAGCCCAAGGAG
CTCGGATTGTGGCCGCCACCCTCTGACCCGGAGCTCTTAAGGAGTGGAAAGGTAACGTGAAGACAAT
GGCTGACCGGATTCTGACCATGAGATCCGAACCTCAGGGCAAGACTAGAAGCTCTCAAGACCCCGGACT
TGGTCTCACATCACTGAGCAGATTGGAATGTTTCAGTTTACCAGGCTTGAACCCCAAGCAGGTCGAGTATT
TGGTCAACGAGAAGCATATCTATCTCTGCGGAGTGGTCGGATCAACATGTGCGGCTTGACCACCAAGAA
CCTAGATTACGTCGCTACCTCCATCCATGAAGCCGTCACCAAAATCCAG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206497 representing BC002057
 Red=Cloning site Green=Tags(s)

MAPPSVFAQVPQAPPVLVFKLTADFRDDPDRKVNLVGVGAYRTDESQPWVLPVVRKVEQKIANDNSLNHE
 YLPILGLAEFRSCASRLVLGDNSPAIRENRVGGVQSLGGTGALRIGADFLGRWYNGTDNKNTPPIYVSSPT
 WENHNAVFSAAAGFKDIRPYCYWDAEKRLDLQGFNLNDLENAPEFSIFVLHACAHNPTGTDPTPEQWKQIA
 AVMQRRFLFPFFDSAYQGFASGDLEKDAWAIIRYFVSEGFELFCAQSF SKNFGLYNERVGNLTVVGKESDS
 VLRVLSQMEKIVRITWSNPPAQGARIVAATLSDPELFKEWKGNVKTMDRILTMRELRRARLEALKTPGT
 WSHITEQIGMFSFTGLNPKQVEYLVNEKHIIYLLPSGRINMCGLTTKNLDYVATSIEHAVTKIQ

TRTRPLE - GFP Tag - V

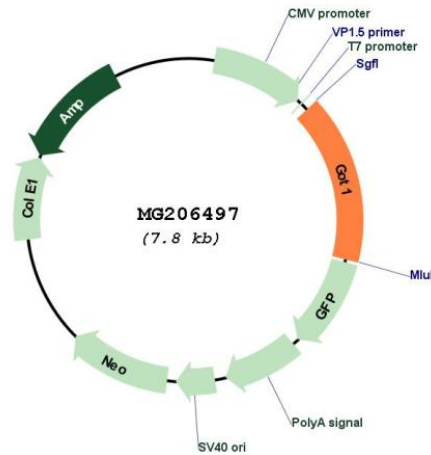
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC002057

ORF Size:	1241 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	BC002057 , AAH02057
RefSeq Size:	1985 bp
RefSeq ORF:	1241 bp
Locus ID:	14718
Cytogenetics:	19 36.67 cM
Gene Summary:	<p>Biosynthesis of L-glutamate from L-aspartate or L-cysteine. Important regulator of levels of glutamate, the major excitatory neurotransmitter of the vertebrate central nervous system. Acts as a scavenger of glutamate in brain neuroprotection. The aspartate aminotransferase activity is involved in hepatic glucose synthesis during development and in adipocyte glyceroneogenesis. Using L-cysteine as substrate, regulates levels of mercaptopyruvate, an important source of hydrogen sulfide. Mercaptopyruvate is converted into H(2)S via the action of 3-mercaptopyruvate sulfurtransferase (3MST). Hydrogen sulfide is an important synaptic modulator and neuroprotectant in the brain (By similarity).[UniProtKB/Swiss-Prot Function]</p>