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Product datasheet for MC207293

Got1 (NM_010324) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Got1 (NM_010324) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Got1
Synonyms:	AI789014; cAspAT; cCAT; Got-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC207293 representing NM_010324 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGCCTCCATCAGTCTTTGCCCAGGTTCCGCAAGCTCCTCCGGTTCTGGTCTTTAAGCTCACTGCGG ACTTCCGGGATGATCCAGATCCCCGCAAGGTTAACCTCGGCGTGGGAGCGTACCGCACAGATGAATCTCA GCCCTGGGTTTTGCCAGTAGTGAGGAAGGTCGAACAGAAGATTGCTAACGACAACAGCCTCAACCACGAG TACCTGCCCATCCTGGGCCTGGCAGAGTTCCGGAGCTGTGCTTCTCGCCTAGTTCTTGGGGACAACAGCC TGGCTATCAGGGAGAATCGGGTTGGAGGGGTGCAGTCTTTGGGAGGGACAGGCGCTCTTCGGATTGGAGC TGACTTCTTAGGGCGATGGTACAATGGTACAGATAACAAGAACACACCAATCTACGTATCATCACCAACC TGGGAGAACCATAATGCTGTGTTTTCTGCCGCCGGTTTTAAGGACATTCGGCCCTATTGCTACTGGGATG CGGAGAAGAGAGGACTGGACCTCCAGGGTTTCCTGAATGATCTGGAGAATGCCCCCGAGTTCTCCATCTT TGTCCTCCATGCCTGTGCGCACAACCCAACAGGGACCGACCCGACTCCAGAGCAGTGGAAGCAGATCGCT GCTGTCATGCAGCGCCGTTTTCTGTTCCCCTTCTTTGACTCAGCCTATCAGGGCTTTGCATCTGGAGACC TAGAGAAAGATGCGTGGGCTATTCGCTATTTTGTGTCTGAAGGCTTCGAGCTCTTCTGTGCCCAGTCCTT CTCCAAGAACTTCGGGCTCTACAATGAGAGAGTGGGGAATCTGACCGTGGTCGGAAAAGAGTCTGACAGC GTCCTGCGGGTCCTTTCCCAGATGGAGAAGATTGTACGAATCACCTGGTCCAATCCCCCAGCCCAAGGAG CTCGGATTGTGGCCGCCACCCTCTCTGACCCGGAGCTCTTTAAGGAGTGGAAAGGTAACGTGAAGACAAT GGCTGACCGGATTCTGACCATGAGATCCGAACTCAGGGCAAGACTAGAAGCTCTCAAGACCCCCGGGACT TGGTCTCACATCACTGAGCAGATTGGAATGTTCAGTTTCACCGGCTTGAACCCCAAGCAGGTCGAGTATT TGGTCAACGAGAAGCATATCTATCTCCTGCCGAGTGGTCGGATCAACATGTGCGGCTTGACCACCAAGAA CCTAGATTACGTCGCTACCTCCATCCATGAAGCCGTCACCAAAATCCAGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_010324
Insert Size:	1242 bp
OTI Disclaimer:	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. 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
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_010324.2, NP_034454.2
RefSeq Size:	2065 bp
RefSeq ORF:	1242 bp
Locus ID:	14718
UniProt ID:	P05201
Cytogenetics:	19 36.67 cM
Gene Summary:	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]