

Product datasheet for **SC318954**

SLC6A12 (NM_001122847) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A12 (NM_001122847) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC6A12
Synonyms:	BGT-1; BGT1; GAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001122847, the custom clone sequence may differ by one or more nucleotides

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ATGGACGGGAAGGTGGCAGTGCAAGAGTGTGGCCTCCTGCAGTCTCCTGGTCCCCGAGGAGGGAGAGA
AGTTGGACCAGGAAGACGAGGACCAGGTGAAGGATCGGGGCCAATGGACCAACAAGATGGAGTTTGTGCT
GTCAGTGGCCCGGGAGATCATTGGGCTGGGCAATGTCTGGAGGTTCCCTATCTCTGCTACAAAAACGGA
GGTGGAGCCTTTCATCCCCTACTTCATCTTCTTTGTCTGCGGCATCCCGGTGTTCTTCTGGAGG
TGGCGTTGGGCCAATACACCAGCCAAGGGAGTGTACAGCCTGGAGGAAGATCTGCCCCCTCTTCCAGGG
CATTGGTCTGGCATCTGTGGTACGAGTCATATTTGAATGTCTACTACATCATCATCCTTGCCTGGGCT
CTTTCTACCTGTTACAGCTCCTTCACTTCTGAGCTGCCCTGGACGACCTGCAACAACCTTTTGAACACAG
AGCATTGCACGGACTTTCTGAACACTCAGGAGCCGGCACAGTGACCCCATTTGAGAATTTTACCTCACC
TGTCATGGAATTCTGGGAGAGACGAGTTCTGGGCATCACCTCGGGCATCCATGACCTGGGCTCCCTGCGC
TGGGAGCTGGCCCTGTGCTCCTGCTCGCTGGGTGATCTGCTATTTCTGCATCTGGAAGGGGGTCAAGT
CCACAGCAAGGTGGTTTATTTACAGCCACGTTCCGTACCTGATGCTTGTCTTTTGTGATCAGAGG
TGTCAACCTTCCCGGAGCCTACCAGGGCATCATCTACTACTTGAAGCCAGATTTGTTCCGCCTCAAGGAC
CCTCAGGTGTGGATGGATGCGGGCACCCAGATCTTCTTCTCCTTTGCCATCTGCCAGGGGTGCCTGACAG
CCCTGGGCAGCTACAACAAGTATCAACAACCTGCTACAAGGACTGCATCGCCCTCTGCTTCTTGAACAG
TGCCACCAGCTTTGTGGCTGGGTTTGTGTCTTCTCCATCCTGGGCTTATGTCCCAAGAGCAAGGGGTG
CCCATTCTGAAGTGGCCGAGTCAGGTCCTGGGCTGGCCTTATCGCCTTCCCAAGGCTGTGACTATGA
TGCCCTTATCCAGCTGTGGTCTGCTGCTTCTTATCATGCTCATATTCCTAGGGCTGGACAGCCAGTT
TGTCGTGTGGATGCCTGGTGACAGCCTCCATAGACATGTTCCCAAGGAGTCCCGGAAGAGCGGGCGG
CGCGAGCTCCTCATCCTCACCATCGCCGTCATGTGCTACCTGATAGGGCTTTTCTGGTACCCGAGGGCG
GGATGTACATCTTCCAGCTGTTTGACTACTATGCTTCCAGTGGCATATGCCTGCTGTTCTTGTCTTGT
TGAAGTGGTCTGCATAAGCTGGGTGATGGGGCGGACCGTTTCTATGACAACATTGAGGACATGATTGGC
TACCGGCCATGGCCCTGGTGAAGATCTCCTGGCTCTTCTGACCCCTGGACTTTGCCTGGCCACTTTCC
TCTTCTCCTTGAAGCAAGTACACCCCTCAAGTACAACAACGCTCTATGTGTACCCGCTGGGGATACTC
CATTGGCTGGTCTCCTGGCTCTGCTCCTCATGGTCTGTGTCCACTCTTCTGTCATCACCCTCTGAAG
ACTCGGGTCTTTCAGGAAGCGTCTGCGTCAGCTCATCACCCTGACTCCAGTCTGCCACAGCCCAAGC
AACATCCCTGCTTGGATGGCAGTGTGGCCGGAACCTTTGGGCCCTCCCAACAAGGAAGGACTGATAGC
CGGGGAGAAGGAGACCCATTTGTAG
    
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Restriction Sites: Please inquire

ACCN: NM_001122847

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](#)

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001122847.1 , NP_001116319.1
RefSeq Size:	3153 bp
RefSeq ORF:	1845 bp
Locus ID:	6539
UniProt ID:	P48065
Cytogenetics:	12p13.33
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>Transports betaine and GABA. May have a role in regulation of GABAergic transmission in the brain through the reuptake of GABA into presynaptic terminals, as well as in osmotic regulation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>