

Product datasheet for **SC303268**

SLC6A12 (NM_003044) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A12 (NM_003044) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC6A12
Synonyms:	BGT-1; BGT1; GAT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003044 edited
 ATGGACGGGAAGGTGGCAGTGCAAGAGCGTGGCCCTCTGCGGTCTCCTGGGTCCCCGAG
 GAGGGAGAGAAGTTGGACCAGGAAGACGAGGACCAGGTGAAGGATCGGGGCAATGGACC
 AACAAGATGGAGTTTGTGCTGTCAAGTGGCCGGGAGATCATTGGGCTGGGCAATGTCTGG
 AGGTTTCCCTATCTCTGTACAAAAACGGAGGTGGAGCCTTCTTCATCCCCTACTTCATC
 TTCTTCTTTGTCTGCGGCATCCCGGTGTTCTTCTGGAGGTGGCGTTGGGCAATACACC
 AGCCAAGGGAGTGTACAGCCTGGAGGAAGATCTGCCCCCTCTCCAGGGCATTGGTCTG
 GCATCTGGTGCATCGAGTCATATTTGAATGTCTACTACATCATCCTTGCCTGGGCT
 CTCTTCTACCTGTTACAGCTCCTTCACTTCTGAGCTGCCCTGGACGACCTGCAACAACCTT
 TGAACACAGAGCATTGCACGGACTTTCTGAACCACTCAGGAGCCGGCACAGTGACCCCA
 TTTGAGAAATTTACCTCACCTGTCATGGAATTCTGGGAGAGACGAGTTCTGGGCATCACC
 TCGGGCATCCATGACCTGGGCTCCCTGCGCTGGGAGCTGGCCCTGTGCCTCCTGCTCGCC
 TGGGTCATCTGCTATTTCTGCATCTGGAAGGGGGTCAAGTCCACAGGCAAGGTGGTTTAT
 TTCACAGCCACGTTTCCGTACCTGATGCTTGTCAATTTTGTGATCAGAGGTGTCACCTT
 CCCGGAGCCTACCAGGGCATCATCTACTACTTGAAGCCAGATTTGTTCCGCCTCAAGGAC
 CCTCAGGTGTGGATGGATGCGGGCACCCAGATCTTCTTCTCCTTTGCCATCTGCCAGGGG
 TGCTGACAGCCCTGGGAGCTACAACAAGTATACAACAACCTGTACAAGGACTGCATC
 GCCCTCTGCTTCTGAACAGTGCCACCAGCTTTGTGGCTGGGTTTGTGTCTTCTCCATC
 CTGGGCTTCATGTCCCAAGCAAGGGGTGCCATTTCTGAAGTGGCCGAGTCAGTCTCT
 GGGCTGGCCTTCATCGCCTTCCCAAGGCTGTGACTATGATGCCCTTATCCCAGCTGTGG
 TCCTGCCTGTTCTTATCATGCTCATATCCTAGGGCTGGACAGCCAGTTTGTCTGTGTG
 GAGTGCCTGGTGACAGCCTCCATAGACATGTTCCCAAGGAGCTCCGGAAGAGCGGGCGG
 CGCGAGCTCCTCATCCTACCATCGCCGTCATGTGTACCTGATAGGGCTTTTCTGTGTC
 ACCGAGGGCGGGATGTACATTTTCCAGCTGTTTACTACTATGCTTCCAGTGGCATATGC
 CTGCTGTTCTGTCAATGTTTGAAGTGGTCTGCATAAGCTGGGTGTATGGGGCGGACCGT
 TTCTATGACAACATTGAGGACATGATTGGCTACCGCCATGGCCCTGGTGAAGATCTCC
 TGGCTCTTCTGACCCCTGGACTTTGCCTGGCCACTTTCCTTCTCCTTGGCAAGTAC
 ACCCCCCCAAGTACAACAACGTCTATGTGTACCCGCCCTGGGGATACTCCATTGGCTGG
 TTCCTGGCTCTGTCTCCATGGTCTGTGTCCCACTTTCGTGTCATCACCCTCCTGAAG
 ACTCGGGTCTTTCAGGAAGCGTCTGCGTCAGCTCATACCCCTGACTCCAGTCTGCCA
 CAGCCCAAGCAACATCCCTGCTTGGATGGCAGTCTGGCCGGAACCTTGGGCCCTCCCA
 ACAAGGGAAGGACTGATAGCCGGGAGAAGGAGACCCATTTGTAG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003044 unedited
 GTTAGCATTTGTATACGACTCATATAGGGCGGCCGCGATTCCGCCCTTCTAGAGTTCAGA
 GAGGGGGTGTGATTTGCCTGAGGTACACAGCAAGTTAGAGACCCAGCTCCACGACTCAT
 TGTCTTGGCTTTGGCCCTCGTCATCCTGCCACCCAGCGGGGCTTCCCAACCCACCACAC
 AGCCATGGACGGGAAGGTGGCAGTGCAAGAGCGTGGGCCCTCTGCGGTCTCCTGGGTCCC
 CGAGGAGGGAGAGAAGTTGGACCAGGAAGACGAGGACCAGGTGAAGGATCGGGGCAATG
 GACCAACAAGATGGAGTTTGTGCTGTCAAGTGGCCGGGAGATCATTGGGCTGGGCAATGT
 CTGGAGGTTTCCCTATCTCTGTACAAAAACGGAGGTGGAGCCTTCTTCATCCCCTACTT
 CATCTTCTTTGTCTGCGGCATCCCGGTGTTCTTCTGGAGGTGGCGTTGGGCAATA
 CACCAGCAAGGGAGTGTACAGCCTGGAGGAAGATCTGCCCCCTCTCCAGGGCATTGG
 TCTGGCATCTGTGGTGCATCGAGTCATATTTGAATGTCTACTACATCATCCTTGCCTG
 GGCTCTTCTACCTGTTCAAGTCTTCACTTCTGAGCTGCCCTGNACGAACCTGCACAA
 CTTTTGGAACACAGAGCATTGCACGGACTTTCTGAACCACTCNAGAGCCGGCACAGTGAC
 CCCCATTTGGAGAATTTACCTCACCTGTCATGGAATTCCTGGAGAGACGAGTTCTGGGCAT
 CACCTCGGGCATCCATGACCTGGGCTNCCTGCGCTGGGAGCTGGCCCTGGCCCTCTGCTC
 GCCTGGTCATCTGC

3' Read Nucleotide Sequence:	>Forward primer walk for NM_003044 unedited CACTTGNAGNATGNATTGGCTACCGCCATGGCCCCTGGTGAAAACTCCTGGCTCTTCC TGACCCCTGGACTTTGCCTGGCCACTTTCCTCTTCTCCTTGAGCAAGTACACCCCTCA AGTACAACAACGTCTATGTGTACCCGCCCTGGGATACTCCATTGGCTGGTTCCTGGCTC TGTCCCTCATGGTCTGTGTCCCCTCTTCGTGTCATCACCCCTCTGAAGACTCGGGGTC CTTTCAGGAAGCGTCTGCGTCAGCTCATACCCCTGACTCCAGTCTGCCACAGCCCAAGC AACATCCCTGCTTGGATGGCAGTGTGGCCGGAACCTTGGGCCCTCCCAACAAGGGAAG GACTGATAGCCGGGAGAAGGAGACCCATTTGTAGGGTGTGGCCAGAGGCCAGGCGGCTC CTAAGCCGGGAACCTAGGTCAGGGCCACCCTCCATTCTCAGCGGACAGCCTCTGCCTCTG TCTCTGCCACAATCCTGCTGGGAACCTCTGGAGAGCCACAGGCACCCCAAGCTGGAGGC CAGACTCTCTTGTGCTAGCTGGAGCAGCTCCTTCCCTTTGCTGATAACACCACCAC TGNGACGTGCCATGTTGGGACGCCACTCCCTGNTGGAAGGCACCATCGTTTTTATAAAGG GGGGTCTTTTTTGAAGCCGCATCTGATTGCAACACCTCGAGTTATGAAGATTCCACTG NTGGGATGCCTCTTGTAGAGCATACTGCATTTGTACANCGGAGAGGAGCTANTATTGG AACGCACACTGCCGTCCAATGTGGAGAGCCTGATGGACAATACCTGTTGGAGTGACAA CTGAACACACTGTGTTGC
Restriction Sites:	Please inquire
ACCN:	NM_003044
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	There is 2 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 2 aa.
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:	<u>NM_003044.2</u> , <u>NP_003035.2</u>
RefSeq Size:	3410 bp
RefSeq ORF:	1845 bp
Locus ID:	6539
UniProt ID:	<u>P48065</u>
Cytogenetics:	12p13.33

Protein Families: Druggable Genome, Transmembrane

Gene Summary: 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]
Transcript Variant: This variant (1) and variants 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.