

## Product datasheet for **RG226026**

### SLC6A12 (NM\_001122848) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A12 (NM_001122848) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC6A12
Synonyms:	BGT-1; BGT1; GAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG226026 representing NM\_001122848  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGGGAAGGTGGCAGTGCAAGAGTGTGGCCTCCTGCAGTCTCCTGGTCCCCGAGGAGGAGAGA  
 AGTTGGACCAGGAAGACGAGGACCAGGTGAAGGATCGGGGCAATGGACCAACAAGATGGAGTTTGTGCT  
 GTCAGTGGCCGGGAGATCATTGGGCTGGCAATGTCTGGAGTTTCCCTATCTCTGCTACAAAAACGGA  
 GGTGGAGCCTTCTCATCCCCTACTTTCATCTTCTTCTTTGTCTGCGGCATCCCGGTGTTCTTCTGGAGG  
 TGGCGTTGGCCAATACACCAGCAAGGGAGTGTACAGCCTGGAGGAAGATCTGCCCCCTCTCCAGGG  
 CATTGGTCTGGCATCTGTGGTATCGAGTCATATTTGAATGTCTACTACATCATCATCTTGCCTGGGCT  
 CTCTTCTACCTGTTTCTGAGTCTTCACTTCTGAGCTGCCCTGGACGACCTGCAACAACCTTTTGAACACAG  
 AGCATTGCACGGACTTTCTGAACCACTCAGGAGCCGGCACAGTGACCCCATTTGAGAATTTTACCTCACC  
 TGTGATGGAATTCTGGGAGAGACGAGTTCTGGGCATCACCTCGGGCATCCATGACCTGGGCTCCCTGCGC  
 TGGGAGCTGGCCCTGTGCCTCCTGCTCGCTGGGTGATCTGCTATTTCTGCATCTGGAAGGGGTCAAGT  
 CCACAGGCAAGGTGGTTTATTTACAGCCACGTTTCCGTACCTGATGCTTGTGCTATTTTGTGATCAGAGG  
 TGTCAACCTTCCCGGAGCCTACCAGGGCATCATCTACTACTTGAAGCCAGATTTGTTCCGCCTCAAGGAC  
 CCTCAGGTGTGGATGGATGCGGGCACCCAGATCTTCTTCTCCTTTGCCATCTGCCAGGGGTGCCTGACAG  
 CCCTGGGCAGCTACAACAAGTATACAACAACCTGCTACAAGGACTGCATCGCCCTCTGCTTCTTGAACAG  
 TGCCACCAGCTTTGTGGCTGGGTTTGTGTCTTCTCCATCCTGGGCTTATGTCCAAGAGCAAGGGGTG  
 CCCATTTCTGAAGTGGCCGAGTCAGTCTGGGCTGGCCTTTCATCGCCTTCCCAAGGCTGTGACTATGA  
 TGCCCTTATCCCAGCTGTGGTCTGCCTGTTCTTTATCATGCTCATATTTCTAGGGCTGGACAGCCAGTT  
 TGTCTGTGGAGTGCCTGGTGACAGCCTCCATAGACATGTTCCCGAGGAGCTCCGGAAGAGCGGGCGG  
 CGCGAGCTCCTCATCCTCACCATCGCCGTGATGCTACCTGATAGGGCTTTTCTGGTACCGAGGGCG  
 GGATGTACATCTTCCAGCTGTTTACTACTATGCTTCCAGTGGCATATGCCTGCTGTTTCTGCTATTGTT  
 TGAAGTGGTCTGCATAAGCTGGGTGATGGGGCGGACCGTTTCTATGACAACATTGAGGACATGATTGGC  
 TACCGGCCATGGCCCTGGTGAAGATCTCCTGGCTTCTTCTGACCCCTGGACTTTGCCTGGCCACTTTCC  
 TCTTCTCCTTGAAGCAAGTACACCCCTCAAGTACAACAACGCTATGTGTACCCGCCCTGGGGATACTC  
 CATTGGCTGGTCTGCTCCTCCATGGTCTGTGTCCACTTTCGTGTCATCACCTCCTGAAG  
 ACTCGGGTCTTTCAGGAAGCGTCTGCGTCAGCTCATACCCCTGACTCCAGTCTGCCACAGCCCAAGC  
 AACATCCCTGCTTGGATGGCAGTCTGGCCGGAACCTTTGGGCCCTCCCAACAAGGAAGGACTGATAGC  
 CGGGGAGAAGGAGACCCATTTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG226026 representing NM\_001122848  
 Red=Cloning site Green=Tags(s)

MDGKVAVQECGPPAVSWVPEEGEKLDQEDEDQVKDRGQWTNKMEFVLSVAGEIIGLGNVWRFYPYLCYKNG  
 GGAFFIPYFIFFFVCGIPVFFLEVALGQYTSQGSVTAWRKICPLFQIGLASVVIIESYLNYYIIILAWA  
 LFYLFSSFTSELPWTTCCNNFWNTEHCTDFLNHSGAGTVTPFENFTSPVMEFWERRVLGITSGIHDLSLR  
 WELALCLLLAWVICYFCIWKGVKSTGKVVYFTATFPYLMLVILLIRGVTLPGAYQGIYYLKPDLFRLKD  
 PQVWMDAGTQIFFSFAICQGLTALGSYNKYHNNCYKDCIALCFLNSATSFVAGFVVFVILGFMSQEQGV  
 PISEVAESGPGLAFAIFPKAVTMMPLSQLWSCLFFIMLIFLGLDSQFVCECLVTASIDMFPRQLRKSGR  
 RELLILTIIVMICYLIGLFLVTEGMYIFQLFDYYASSGICLLFLSLFEVVICISWVYGADRFYDNIEMIG  
 YRPWPLVKISWFLTPGLCLATFLFSLSKYTPLKYNVYVYPPWGYSIGWFLALSSMVCVPLFVVITLLK  
 TRGPFKRRLRQLITPSSLPQPKQHPCLDGSAGRNFGPSPTREGLIAGEKETHL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001122848.3</a>
<b>RefSeq Size:</b>	3279 bp
<b>RefSeq ORF:</b>	1845 bp
<b>Locus ID:</b>	6539
<b>UniProt ID:</b>	<a href="#">P48065</a>
<b>Cytogenetics:</b>	12p13.33
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	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]