

Product datasheet for **RG206290**

SLC6A1 (NM_003042) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A1 (NM_003042) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC6A1
Synonyms:	GABATHG; GABATR; GAT1; MAE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206290 representing NM_003042
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGACCAACGGCAGCAAGGTGGCCGACGGGCAGATCTCCACCGAGGTCAGCGAGGCCCTGTGGCCA
 ATGACAAGCCAAAACCTTGGTGGTCAAGGTGCAGAAGAAGGCGGCAGACCTCCCGACCGGCACAGTG
 GAAGGGCCGCTTCGACTTCTCATGTCTGTGGGCTATGCCATCGGCCTGGGCAACGTCTGGAGGTTCC
 CCCTATCTCTGCGGAAAAATGGTGGGGGAGCCTTCTGATCCCCTATTTCTGACACTCATCTTTGCGG
 GGGTCCCCTCTTCTGCTGGAGTGCTCCCTGGGCCAGTACACCTCCATCGGGGGCTAGGGGTATGGAA
 GCTGGCTCTATGTTCAAGGGCGTGGCCCTTGGGCTGCTGTGCTATCATTCTGGCTGAACATCTACTAC
 ATCGTCATCATCTCTGGGCCATTTACTACCTGTACAACCTCTTACCACGACACTGCCGTGAAACAGT
 GCGACAACCCCTGGAACACAGACCGCTGCTTCTCAACTACAGCATGGTCAACACTACCAACATGACCAG
 CGCTGTGGTGGAGTTCTGGGAGCGCAACATGCATCAGATGACGGACGGGCTGGATAAGCCAGGTCAGATC
 CGCTGGCCACTGGCCATCACGCTGGCCATCGCCTGGATCCTTGTGATTTCTGTATCTGGAAGGGTGTG
 GCTGGACTGGAAGGTGGTCTACTTTTCAGCCACATACCCCTACATCATGCTGATCATCCTGTTCTTCCG
 TGGAGTGACGCTGCCGGGGCAAGGAGGGCATCCTCTTCTACATCACACCAACTTCCGCAAGCTGTCT
 GACTCCGAGGTGTGGCTGGATGCGGCAACCCAGATCTTCTTCTCATACGGGCTGGGCTGGGGTCCCTGA
 TCGCTCTCGGGAGCTACAACCTTTCCACAACAATGTCTACAGGGACTCCATCATCGTCTGCTGCATCAA
 TTCGTGCACCAGCATGTTTCGAGGATTCGTCATCTTCCATCGTGGGCTTCATGGCCATGTACAGAA
 AGGTCCATTGTGATGTGGCGGCTCAGGCCCGGGCTGGCGTTCCTGGCATAACCCAGAGCGGTCACCC
 AGCTGCCATCTCCCCTCTGGGCCATCCTCTTCTTCCATGCTGTTGATGCTGGGCATTGACAGCCA
 GTTCTGCACTGTGGAGGGCTTCATCACAGCCCTGGTGGATGAGTACCCAGGCTCCTCCGCAACCGCAGA
 GAGCTCTTATTGCTGCTGTCTGCATCATCTCCTACCTGATCGGTCTCTTAACACTACTCAGGGGGTA
 TTTATGTCTTCAAACCTTTGACTACTACTCTGCCAGTGGCATGAGCCTGCTGTTCTCTGTTCTTTGA
 ATGTGTCTCTATTTCTGGTTTTACGGTGTCAACCGATTCTATGACAATATCCAAGAGATGGTTGGATCC
 AGGCCCTGCATCTGGTGGAACTCTGCTGGTCTTTCTTCCACCAATCATTGTGGCGGGCTGTTCAATTT
 TCAGTGTGTGCAGATGACGCAACTCACCATGGGAACTATGTTTTCCCAAGTGGGGCCAGGGTGTGGG
 CTGGCTGATGGCTCTGTCTTCCATGGTCTCATCCCCGGGTACATGGCCTACATGTTCTCACCTTAAAG
 GGCTCCCTGAAGCAGCGCATCAAGTCATGGTCCAGCCAGCGAAGACATCGTTCGCCAGAGAATGGTC
 CTGAGCAGCCCCAGGCGGCAGCTCCACCAGCAAGGAGGCTACATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206290 representing NM_003042
 Red=Cloning site Green=Tags(s)

MATNGSKVADGQISTEVSEAPVANDKPKTLVVKVQKKAADLPDRDTRWKGRFDLMSVCVGYAIGLGNVWRF
 PYLCGKNGGGAFLIPYFLTLIFAGVPLFLLLECSLQYTSIGGLGVWKLAPMFKGVGLAAAVLSFWLNIIYY
 IVIISWAIYYLYNSFTTLPWKQCDNPWNTDRCFSNYSMVNTTNTMSAVVEFWERNMHQMTDGLDKPGQI
 RWPLAITLAIWILVYFCIWKGVGWTGKVVYFSATYPYIMLIILFFRGVTLPGAKEGILFYITPNFRKLS
 DSEVWLDAAATQIFFSYGLGLGSLIALGSYNSFHNNVYRDSIIVCCINSCTSMFAGFVIFSIIVGFMAHVTK
 RSIADVAASGPGLAFLAYPEAVTQLPISPLWAILFFSMLLMGIDSQFCTVEGFITALVDEYPRLLRNRR
 ELFIAAVCIISYLIGLSNITQGGIYVFKLFDYYSASGMSLLFLVFECVSI SWFYGVNRFYDNIQEMVGS
 RPCIWWKLCWSFFTPIIVAGVIFSAVQMTQLTMGNYVFPKWQGVGWLMLSSMVLIPGYMAYMFLTLK
 GSLKQRIQVMVQPSIEDIVRPENGPEQPQAGSSTSKEAYI

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_003042

ORF Size: 1797 bp

OTI Disclaimer: 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 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:

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_003042.2](#), [NP_003033.2](#)

RefSeq Size: 4493 bp

RefSeq ORF: 1800 bp

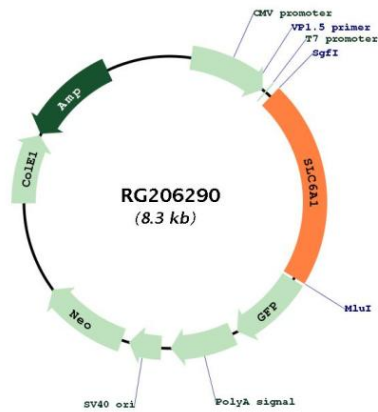
Locus ID: 6529

UniProt ID: [P30531](#)

Cytogenetics: 3p25.3

Domains:	SNF
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	The protein encoded by this gene is a gamma-aminobutyric acid (GABA) transporter that localizes to the plasma membrane. The encoded protein removes GABA from the synaptic cleft, restoring it to presynaptic terminals. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RG206290