

Product datasheet for **RG216392**

SLC6A11 (NM_014229) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A11 (NM_014229) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC6A11
Synonyms:	GAT-3; GAT3; GAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216392 representing NM_014229
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGCGGAGAAGGCGCTGCCCTGGGCAATGGGAAGGCTGCTGAGGAGGCGCGGGAGTCCGAGGCGC
 CGGGTGGCGGCTGCAGCAGCGGGGGCGCGGCCCGCGCCACCGCGGTCAAGCGCGACAAGGCGGT
 CCACGAGCGCGCCACTGGAACAACAAGGTGGAGTTCGTGCTGAGCGTGGCCGGGAGATCATTGGGCTG
 GGCAACGTGTGGCGCTTCCCCTACCTGTGCTACAAGAACGGAGGAGGGCATTCTGATTCCTACGTGG
 TGTTTTTATTTGCTGTGGAATTCCTGTTTTTCTGGAGACAGCTCTGGGCGAGTTCACAAGTGAAGG
 TGGCATTACGTGTTGGAGGAAAGTTGCCCTTATTTGAAGGCATTGGCTATGCAACACAGGTGATTGAG
 GCCCATCTGAATGTGACTACATCATCATCCTGGCATGGCCATTTTTACCTGAGCAACTGCTTACTA
 CTGAGCTACCTGGGCTACCTGTGGCATGAGTGAACACAGAGAATTGTGTGGAGTTCAGAAACTGAA
 TGTGAGCAACTACAGCCATGTGTCTCTGCAGAATGCCACCTCCCCTGTCATGGAGTTTTGGGAGCACCGG
 GTCTGGCCATCTCTGACGGGATCGAGCACATCGGGAACCTTCGCTGGGAGCTGGCCTTGTGTCTTTGG
 CAGCCTGGACCATCTGTTACTTCTGTATCTGGAAGGGGACCAAGTCTACAGGAAAGGTTGTATACGTGAC
 TGCGACATTTCCCCTACATCATGCTGCTGATCCTCCTGATACGAGGGGTACGTTGCCCGGGGCTCAGAG
 GGCATCAAGTTCTACTTGTACCTGACCTCTCCCGGCTCTCCGACCCCAAGTCTGGGTAGATGTGGAA
 CGCAGATCTTTTTCTCCTATGCCATTTGCCTGGGCTGTCTGACCGCTCTGGGAAGTTATAACAATTATA
 CAACAAGTGTACAGGGACTGCATGCTCTGTTGCCTGAACAGCGGCACCAGCTTCGTGGCTGGGTTT
 GCCATCTTCTCAGTCTGGGTTTTATGGCGTACGAGCAGGGGTACCCATTGTGAGTGGCAGAGTCAG
 CCCCCTGGCCTGGCCTTATTTGCGTACCCCAAGGCGGTACCATGATGCCTCTCTCCCGCTGTGGCCAC
 CTGTGTTCTTATGATGCTCATCTTCTGGGCTGGACAGCCAGTTTGTGTGTGTGGAAGCCTGGTGACC
 GCCGTGGTGGACATGTACCCCAAGGTTTTCCGGAGGGGTTACCGCGGGAGCTGCTCATCTAGCCTTGT
 CTGTTATCTCCTATTTTCTGGGCTCGTATGTTAACAGAGGGTGGCATGTACATCTTCCAGCTCTTTGA
 CTCCTATGCCCGCAGTGGGATGTGCCTTCTCTCGTGGCCATCTTTGAGTGCATCTGCATCGGCTGGGTG
 TATGGAAGCAACCGTCTATGATAACATTGAAGACATGATTGGCTACCGCCACCGTCTCATTAAAGT
 GGTGCTGGATGATCATGACCCCTGGGATCTGCGCGGGGATCTTTCATCTTCTTCTGATCAAGTACAAGCC
 ACTCAAGTACAACAACATCTACACCTACCCAGCCTGGGGCTATGGCATTGGCTGGCTCATGGCCCTGTCC
 TCCATGCTCTGCATCCCCTCTGGATCTGCATCACAGTGTGGAAGACGGAGGGGACTGCCCGAGAAAC
 TCCAGAAGTTGACGACCCCGCAGACAGATCTGAAAATGCGGGGCAAGCTTGGGGTGGCCACGGATGGT
 GACAGTTAATGACTGTGATGCCAAACTCAAGAGTGACGGGACCATCGCAGCCATCACAGAGAAGGAGACG
 CACTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216392 representing NM_014229
 Red=Cloning site Green=Tags(s)

MTAEKALPLGNGKAAEEARESEAPGGCSSGGAAPARHPRVKRDKAVHERGHWNKVEFVLSVAGEIIGL
 GNVWRFPYLCYKNGGGAFLIPYVVFICCGIPVFFLETALGQFTSEGGITCWRKVCPLFEGIGYATQVIE
 AHLNVYIIILAWAIFYLSNCFTELWPATCGHEWNTENCVEFQKLNVSNSHVSLSQATSPVMEFWEHR
 VLAISDGIHIGNLRWELALCLLAAWTICYFCIWKGTKSTGKVVVYVATFPYIMLLILLIRGVTLPGASE
 GIKFYLYPDL SRLSDPQVWVDAGTQIFFSYAICLGCLTALGSYNNYNNCYRDCIMLCCLNSGTSFVAGF
 AIFSVLGFMAIEVPIAEVAESGGLAFIAYPKAVTMMPLSPLWATLFFMMLIFLGLDSQFVCSVLT
 AVVDMYPKVFRRGYRRELLILALSVISYFLGLVMLTEGGMYIFQLFDSYAASGMCLLFVAIFECICIGWV
 YGSNRFYDNIEDMIGYRPPSLIKWCMIMTPGICAGIFIFFLIKYKPLKYNNIYTPAWGYGIGWLMALS
 SMLCIPLWICITVWKTEGTLPEKLQKLTTPSTDLKMRGKLGVSPRMVTVNDCAKLSKSDGIIAAITEKET
 HF

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_014229

ORF Size: 1896 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_014229.3](#)

RefSeq Size: 1991 bp

RefSeq ORF: 1899 bp

Locus ID: 6538

UniProt ID: [P48066](#)

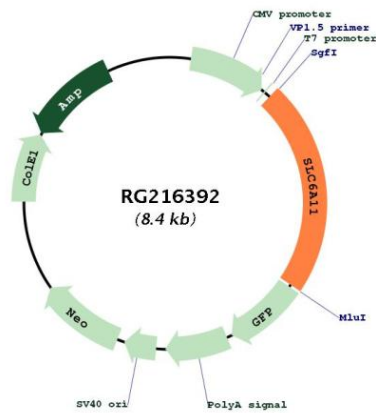
Cytogenetics: 3p25.3

Domains: SNF

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene is a sodium-dependent transporter that uptakes gamma-aminobutyric acid (GABA), an inhibitory neurotransmitter, which ends the GABA neurotransmission. Defects in this gene may result in epilepsy, behavioral problems, or intellectual problems. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG216392