

Product datasheet for **MR209294**

Slc6a1 (NM_178703) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a1 (NM_178703) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc6a1
Synonyms:	A730043E01; GABATHG; GABATR; Gabt; Gabt1; GAT-1; Gat1; XT-1; Xtrp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209294 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACTGACAACAGCAAGGTGGCTGATGGGCAGATCTCTACTGAGGTGAGCGAGGCCCTGTGGCCA
 GCGACAAGCCAAAACCTGGTAGTCAAGGTGCAGAAGAAGCCGGGACCTCCCTGACCGGACACATG
 GAAGGGACGCTTCGACTTCTCATGTCCTGCGTGGGCTATGCCATCGGCCTGGGCAATGTGTGGAGGTT
 CCTTACCTCTGTGGGAAAAACGGTGGCGGGCCTTCTAATCCCATATTTCTGACGCTCATCTTTGCGG
 GTGTTCTCTCTCTTTGGAGTGCTCCCTAGGCCAGTACACCTCCATTGGGGGCTGGGCGTATGGAA
 GCTGGCGCCATGTTCAAGGGTGTGGCCCTCGCGGCAGCTGTGCTGTCTTCTGGCTGAACATCTACTAC
 ATCGTCATCATCTCTGGGCCATCTACTACCTGTACAACCTCTTACCACGACCCTGCCATGGAAACAGT
 GTGACAACCCGTGGAACACTGACCGCTGCTTCTCAACTACAGCCTGGTCAATACCACCAACATGACCAG
 CGCCGTGGTGGAGTTCTGGGAGCGCAACATGCACCAGATGACAGATGGACTGGACAAGCCAGGACAGATC
 CGCTGGCCTCTGGCCATCACACTGGCCATTGCCTGGGTGCTCGTGTATTTCTGCATCTGGAAGGGTGTG
 GTTGGACTGGAAAGGTGGTCTACTTCTCAGCCAGTACCCTACATCATGCTTATCATCCTGTTCTTCCG
 TGGAGTGACGCTTCCCGGGGCAAGGAGGGGATCCTTCTTACATCACACCAACTTCCGAAAGCTGTCT
 GATTCTGAGGTGTGGCTTGACGCCGCCACCCAGATCTTCTTCTCTACGGGCTGGGCTGGGGTCCCTGA
 TTGCTCTGGGAAGCTACAACCTTTCCACAACAATGTGTACAGGGACTCCATCATCGTTTGTGCATCAA
 CTCCTGCACCAGCATGTTGCCGGATTGTCATCTTCTCCATCGTGGGCTTCATGGCTCATGTACCAAG
 AGGTCCATAGCTGATGTGGCAGCCTCAGGCCGGGGTGGCATTCTTGGCGTACCCTGAGGCTGTGACAC
 AGTACCCATCTCTCCCTCTGGGCTATCTCTTCTTCCATGCTGCTGATGCTGGGCTGTGACGCCA
 GTTCTGTACCGTGGAGGGCTTCATCACTGCCCTGGTGGACGAGTACCCAGACTTCTCCGAATCGCCGT
 GAACTTTCATTGCTGCCGTGTGCATCGTGCCTACCTGATTGGCCTGTCTAACATCACCCAGGGTGGCA
 TTTATGTCTTCAAAGTGTGTTGATTACTCTGCCAGCGCATGAGCTTGTCTGTTCTGTTTCTTCTCGA
 GTGTGTCTCCATTTCTGGTTTTATGGTGTCAACCGTTCATGACAACATCCAGGAGATGGTTGGCTCC
 AGGCCCTGCATCTGGTGGAAAGCTGTGCTGGTCTTTTTACACCCATCATTGTGGCGGGCGTGTCTCT
 TCAGTGTGTGCAGATGACACCACTCCATGGGAAGCTATGTTTTCCCAAGTGGGGCCAGGGCGTGGG
 CTGGCTCATGGCTGTCTCTCCATGGTGTCTATCCCTGGTACATGGCTTACATGTTCTCACCCCTGAAG
 GGCTCCCTGAAGCAGCTCTCCAGGTATGATTACGCCAGTGAAGATATTGTGCCCTGAGAATGGCC
 CTGAGCAGCCGAGGCTGGCAGCTCAGCCAGCAAGGAGGCTACATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209294 protein sequence
 Red=Cloning site Green=Tags(s)

MATDNSKVDGQISTEVSEAPVASDKPKTLVVKVQKKAGDLPDRDTWKGRFDFLMSCVGYAIGLGNVWRF
 PYLCGKNGGGAFLIPYFLTLIFAGVPLFLLLECSLGQYTSIGGLGVWKLAPMFKGVGLAAAVLSFWLNIYY
 IVIISWAIYYLYNSFTTLPWKQCDNPWNTDRCFSNYSLVNNTNMTSAVVEFWERNMHQMTDGLDKPGQI
 RWPLAITLAIWVLYVFCIWKGVGWTGKVVYFSATYPYIMLIILFFRGVTLPGAKEGILFYITPNFRKLS
 DSEVWLDAATQIFFSYGLGLGSLIALGSYNSFHNNVYRDSIIVCCINSCTSMFAGFVIFSIVGFMAHVTK
 RSIADVAASGPGLAFLAYPEAVTQLPISPLWAILFFSMLMLGIDSQFCTVEGFITALVDEYPRLLRNRR
 ELFIAAVCIVSYLIGLSNITQGGIYVFKLFDYYSASGMSLLFLVFFECVSI SWFYGVNRFYDNIQEMVGS
 RPCIWWKLCWSFFTPIIVAGVFLFSAVQMTPLTMGSYVFPKWQGVGWLMALESSMVLIPWYMAFMFLTLK
 GSKLQRLQVMIQPSEDIVRPENGPEQPQAGSSASKEAYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_178703

ORF Size: 1800 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_178703.1](#), [NM_178703.2](#), [NM_178703.3](#), [NM_178703.4](#), [NP_848818.1](#)

RefSeq Size: 4318 bp

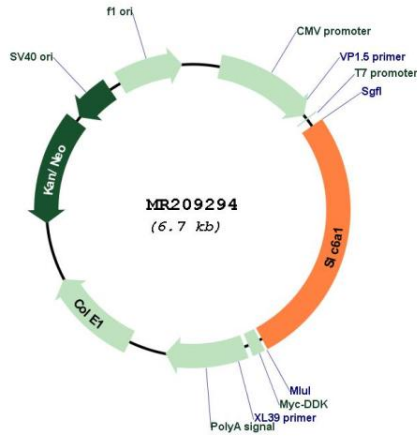
RefSeq ORF: 1800 bp

Locus ID: 232333

UniProt ID: [P31648](#)

Cytogenetics: 6 E3
MW: 67.1 kDa
Gene Summary: Terminates the action of GABA by its high affinity sodium-dependent reuptake into presynaptic terminals.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209294