

Product datasheet for **MR208431**

Slc32a1 (NM_009508) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc32a1 (NM_009508) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc32a1
Synonyms:	R75019; VGAT; Viaat
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208431 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCCTGCTCCGAGCAAGCTGACCAATGTGGCCACCTCCGTGTCCAACAAGTCCCAGGCCAAGG
 TGAGCGCATGTTTGCCAGGATGGGTTTCAGGCGGCCACCGATGAGGAAGCGGTGGCTTCGCGCACTG
 CGACGATCTCGACTTTGAGCATCGCCAGGGCTGCAGATGGACATCCTGAAATCGGAAGGCGAGCCCTGC
 GGAGACGAGGGCGCAGAAGCTCCCGTCGAGGGAGACATTCATTATCAGCGCGGGCGCTCCTCTGCCAC
 CCTCTGGCTCCAAGGACCAGGCCGTGGGAGCTGGTGGGGAGTTCGGGGGTACGACAAACCAAGATCAC
 GGCGTGGGAAGCGGGCTGGAACGTGACAAATGCCATTAGGGCATGTTCTGTCTGGGCTACCTACGCC
 ATCTCCACGGCGCTACCTGGGTTGTTCTCATCATCTTCGCCGAGTGGTGTCTGTACACCGGCA
 AGATCCTCATCGCGTGCCTGTACGAGGAGAACGAAGACGGGGAGGTGGTGCCTGCGGGACTCGTATGT
 GGCCATAGCTAACGCATGCTGCGCTCCTCGATTCCCCACCTGGGCGGCCGCTGGTCAATGTGGCGCAG
 ATCATCGAGCTGGTGATGACGTGTATCTTGTACGTCGTGGTGAGCGGCAACCTCATGTACAACAGTTCC
 CGGGGCTGCCCGTGTGCGAGAAGTCTGGTCCATCATAGCCACAGCGGTGCTGCTGCCCTGCGCCTTCT
 GAAGAATCTCAAGGCCGTGTCCAAGTTCAGTCTGCTGTGTACGCTGGCCACTTCGTCATCAACATCCTG
 GTCATCGCTTACTGTCTCTCTCGCGCGCGTGATTGGGCCCTGGGAGAAGGTGAAGTTCTACATCGAGCTCA
 AGAAGTTTCCCATCTCCATTGGCATCATCGTGTTCAGTACACGTCGAGATCTTCTGCCCTCTCTCGA
 AGGCAACATGCAGCAGCCAGCGAATCCACTGCATGATGAACGGACACACATCGCCGCTGCGTGCTC
 AAGGGTCTCTTCGCGCTCGTGCCTACCTCACCTGGGCCGACGAGACCAAGGAAGTATCACGGATAACC
 TGCCCGCTCCATCCGCGCGGTGGTCAACCTCTCTGGTGGCCAAAGCGCTGCTCCTATCCGTTGCC
 CTCTTCGCGGCCGTGCGAAGTGTGGAGAAGTCTCTCTCCAGGAAGGAGTCCGCGCTTCTTCCCGCC
 TGCTATGGAGGCGACGGTGCCTTAAGTCTGGGGCTGACGCTGCGCTGCGCGTGGTGGTCTTACGCG
 TGCTCATGGCCATCTACGTGCCACACTTCGCGTGTCTCATGGCCCTCACGGGCGAGCTCACAGGCGCCG
 CCTCTGCTTCTGCTGCCAGCCTTCCACTTGCCTTCTCTGGCGAAGCTGCTGTGGCACCAGGTC
 TTCTTCGATGTGGCCATCTTCGTCATCGCGGCATCTGCAGCGTGTCCGGCTTCGTGCATTCACTCGAGG
 GTCTCATCGAGGCTACCGAACCAACGCAGAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208431 protein sequence
 Red=Cloning site Green=Tags(s)

MATLLRSKLTNVATSVSNKSQAKVSGMFMARMGFQAATDEEAVGF AHCDDLDFEHRQGLQMDILKSEGEPC
 GDEGAEAPVEGDIHYQRGGAPLPPSGSKDQAVGAGGEFGGHDKPKITAWAAGWNVNNAIQGMFVLGLPYA
 ILHGGYLGFLIIFAAVVCCYTGKILIACLYEENEDGEVVRVRSYVAIANACCAPRFPPTLGGRVNVAQ
 IIELVMTCILYVVVSGNLMYNSFPGLPVSQKSWSIATAVLLPCAFLKNLKAISKFSLLCTLAHFVINIL
 VIAYCLSRARDWAEKVKFYIDVKKFPISIGIIVFSYTSQIFLPSLEGNMQPSEFHCMMNWTHIAACVL
 KGLFALVAYLTWADETKEVITDNLPGSIRAVVNLFLVAKALLSYPLPFFAAVEVLEKSLFQEGSRAFFPA
 CYGGDGRLLKSWGLTLRCALVVFLLMAIYVPHFALLMGLTGSLTGAGLCFLLPSLFHLRLLWRKLLWHQV
 FFDVAIFVIGGICSVSGFVHSLEGLIEAYRTNAED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_009508

ORF Size: 1578 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_009508.2](#), [NP_033534.2](#)

RefSeq Size: 2805 bp

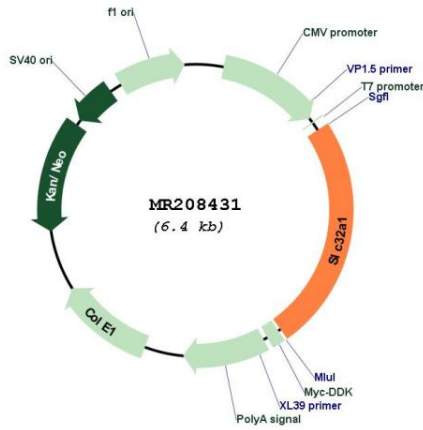
RefSeq ORF: 1578 bp

Locus ID: 22348

UniProt ID: [O35633](#)

Cytogenetics: 2 H1
 MW: 57.4 kDa
 Gene Summary: Involved in the uptake of GABA and glycine into the synaptic vesicles.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208431