

Product datasheet for MR206316

Slc17a7 (NM_182993) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc17a7 (NM_182993) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc17a7
Synonyms:	2900052E22Rik; AI851913; Vglut1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206316 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGATCCCTTCAGCAGCCCGCGTTCCTACTATGGCTGTGTCATCTTCGTGAGGATCCTTCAGGGATTGG
TGGAGGGGGTACATACCCTGCTTGCCATGGCATCTGGAGCAAATGGGCCCTCCCTTAGAACGGAGTCG
GCTGGCAACGACAGCCTTTGCGGTTCTATGCTGGGGCGGTGGTTGCCATGCCCTTGGCTGGGGTCCCT
GTGCAGTATTCAGGATGGAGTTCTGTCTTCTATGTCTATGGCAGCTTCGGGATCTTTTGGTACCTGTTCT
GGTTGCTTGTCTCCTATGAGTCACCGGCACTGCACCCAGCATCTCTGAGGAGGAGCGCAAATACATTGA
GGATGCCATCGGGGAGAGCGCAAGCTCATGAACCCTGTTACGAAGTTTAAACACACCCTGGAGGCGCTTC
TTTACGTCATGCCCGTCTATGCCATCATCGTTGCGAACTTTTGGCCAGCTGGACCTTCTACCTGCCTC
TCATCTCTCAGCCCGCTACTTTGAAGAAGTGTTCGGCTTTGAGATCAGCAAGGTGGGGCTGGTGTCCGGC
GCTGCCTCACCTTGTGATGACCATCATCGTACCCATTGGAGGCCAGATCGCTGACTTTTTGCGCAGTCGT
CACATAATGTCCACTACCAACGTGCGAAAGCTCATGAAGTGGGGGGTTTCGGGATGGAAGCCACGCTGC
TGCTGGTGGTGGATACTCGCACTCCAAGGGCGTGGCCATCTCCTTCTGGTCTGGCTGTGGGCTTCAG
TGGCTTTGCCATCTCTGGGTTTAACTGAACCACTTGGACATCGCCCTCGCTATGCCAGCATCTTGATG
GGCATTTCGAATGGCGTGGGCACACTGTCTGGGATGGTGTGCCCATCATCGTGGTGCAATGACCAAGC
ACAAGACGCGGGAGGAGTGGCAGTACGTGTTCTCATAGCCTCCCTGGTGCCTACGGCGGTGTCATCTT
CTATGGGGTCTTTGCTTCGGGAGAGAAGCAGCCGTGGGCAGAGCCGGAGGAGATGAGCGAGGAGAAGTGT
GGCTTTGTTGGCCACGACCAGCTGGCTGGCAGTGACGAAAGTGAATGGAGGACGAGGCTGAGCCCCAG
GGGCGCCCCCGCGCCCTCCGTCTACGGGGCCACACAGCAGAGTGCAGCTCCGAGGCCCGCC
CCCTGTCCGGGACTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206316 protein sequence
 Red=Cloning site Green=Tags(s)

MLIPSAARVHYGCVIFVRILQGLVEGVTPACHGIWSKWAPPLERSRLATTAFCGSGYAGAVVAMPLAGVL
 VQYSGWSSVFYVYGSFGIFWYLFWLLVSYESPALHPSISEEERKYIEDAIGESAKLMNPVTKFNTPWRRF
 FTSMPPVYAIIVANFCRSWTFYLLLIISQPAYFEEVFGFEISKVGLVSALPHLVMTIIVPIGGQIADFLRSR
 HIMSTTNVRKLMNCGGFMEATLLL VVGYSHSGVVAISFLVLAVGFSGFAISGFNVNHLDIAPRYASILM
 GISNGVGTLSGMVCP IIVGAMTKHKTREEWQYVFLIASLVHYGGVIFYGVFASGEKQPWAEPEEMSEEKC
 GFVGHDLAGSDESEMEDEAEPGAPPAPPPSYGATHSTVQPPRPPPPVPRDY

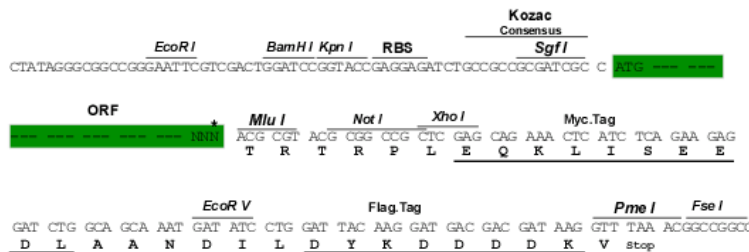
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_182993

ORF Size: 1209 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_182993.1](#), [NP_892038.1](#)

RefSeq Size: 3011 bp

RefSeq ORF: 1683 bp

Locus ID: 72961

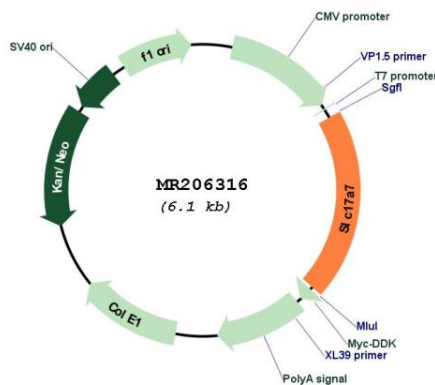
UniProt ID: [Q3TXX4](#)

Cytogenetics: 7 B3

MW: 44.1 kDa

Gene Summary: Mediates the uptake of glutamate into synaptic vesicles at presynaptic nerve terminals of excitatory neural cells. May also mediate the transport of inorganic phosphate.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206316