

Product datasheet for RC236152

SLC1A7 (NM_001287596) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC1A7 (NM_001287596) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SLC1A7
Synonyms: AAAT; EAAT5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236152 representing NM_001287596
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGCCGCATGCCATCTTGGCACGGGGAGGGACGTGTGCAGGCGGAATGGACTCCTCATCCTGTCTG
TGCTGTCTGTATCGTGGGCTGCCTCCTCGGCTTCTTCTTGAGGACCCGGCGCCTCTCACCACAGGAAAT
TAGTTACTTCCAGTTCCTGGAGAGCTCCTGATGAGGATGCTGAAGATGATGATCCTGCCACTGGTGGTC
TCCAGCTTGTATGCCGACTTGCCTCCCTGGATGCCAAGACCTCTAGCCGCTGGGCGTCCCTCACCGTGG
CGTACTACCTGTGGACCACCTTCATGGCTGTCATCGTGGGCATCTTCATGGTCTCCATCATCCACCCAGG
CAGCGCGGCCAGAAGGAGACCACGGAGCAGAGTGGGAAGCCATCATGAGCTCAGCCGATGCCCTGTTG
GACCTCATCCGGCAGAAAGAAGAAAGTTGGAGGAACGGACCAAGGGTCTCTGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236152 representing NM_001287596
Red=Cloning site Green=Tags(s)

MVPHAILARGRDVCRNGLLILSVLSVIVGCLLGFLLRTRRLSPQEISYFQFPGELLMRMLKMMILPLVV
SSLMGLASLDAKTSSRLGVLTVAYYLWTFMAVIVGIFMVSIHPGSAQKETTQSGKPISSADALL
DLIRQKEESWRNGPKGPG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

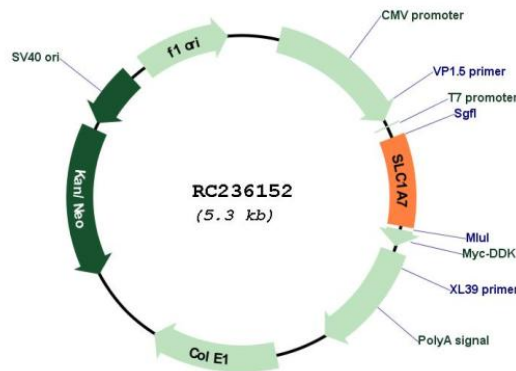


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001287596

ORF Size: 474 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:	<ol style="list-style-type: none">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:	<u>NM_001287596.2</u>
RefSeq Size:	1335 bp
RefSeq ORF:	477 bp
Locus ID:	6512
UniProt ID:	<u>O00341</u>
Cytogenetics:	1p32.3
Protein Families:	Transmembrane
MW:	17.8 kDa
Gene Summary:	Transports L-glutamate; the L-glutamate uptake is sodium- and voltage-dependent and chloride-independent. Its associated chloride conductance may participate in visual processing.[UniProtKB/Swiss-Prot Function]