

Product datasheet for **SC336321**

SLC1A7 (NM_001287597) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC1A7 (NM_001287597) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC1A7
Synonyms:	AAAT; EAAT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC336321 representing NM_001287597.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTGCCGCATGCCATCTTGGCACGGGGAGGGACGTGTGCAGGCGGAATGGACTCCTCATCCTGTCT
GTGCTGTCTGTATCGTGGGCTGCCTCGGCTTCTTCTTGAGGACCCGGCGCCTCTACCACAGGAA
ATTAGTTACTTCCAGTTCCTGGAGAGCTCCTGATGAGGATGCTGAAGATGATGATCCTGCCACTGGTG
GTCTCCAGGAACATGTTCCAGCCAACCTAGTAGAAGCCACATTCAAACAGTACCGCACCAAGACCACC
CCAGTTGTCAAGTCCCCAAGGTGGCACAGAGAGGCCCTCCTCGGCGGATCCTCATCTACGGGGTC
CAGGAGGAGAATGGCTCCATGTGCAGAACTTCGCCCTGGACCTGACCCCGCCGGCAGGTCGTTTAC
AAGTCAGAGCCGGGCACAGCGATGGCATGAATGTGCTGGGCATCGTCTTCTCTGCCACCATGGGC
ATCATGCTGGGCCGATGGGTGACAGCGGGGCCCCCTGGTCAGCTTCTGCCAGTGCCTCAATGAGTCG
GTCATGAAGATCGTGGCGGTGGCTGTGTGGTATTTCCCTTCGGCATTGTGTTCTCATTGGGGTAAG
ATCCTGGAGATGGACACCCAGGGCCGTGGCAAGAAGCTGGGCTTCTACTCAGTACCCGTGGTGTGC
GGGCTGGTGTCCACGGGCTCTTATCCTGCCCTGCTCTACTTCTTCATACCAAGAAGAATCCCATC
GTCTTCATCCGTGGCATCCTGCAGGCTCTGCTCATCGCGCTGGCCACCTCCTCCAGCTCAGCCACTG
CCCATCACCTTCAAGTGCCTGCTGGAGAACAACCACATCGACCGGCGCATCGCTCGCTTCGTGCTGCC
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GTCAACAACACTACGAGCTGGACTTTGGCCAGATCATCACCATCAGTATCACAGCCACTGCAGCCAGCATT
GGGGCAGCTGGCATCCCCAGGCCGGCTCGTCACCATGGTCATCGTGTACCTCCGTGGGACTGCC
ACCGATGACATCACCCCTCATATTGCCGTTGACTGGGCTCTGGACGTTTCCGCACCATGATTAACGTG
CTGGGTGATGCGCTGGCAGCGGGGATCATGGCCATATATGTCGGAAGGATTTTGCCCGGACACAGGC
ACCGAGACCTGTTCCCTTCACCAGAACTGCTGCCCTGCGAGACCAAGCCAGTGAAGCTCCAGGAGAT
CGTGGCAGCCAGCAGAATGGCTGTGTGAAGAGTGTAGCCGAGGCTCCGAGCTCACCTGGGCCCCAC
CTGCCCCACACGTCCCGTTCAAGTGGAGCAGGATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_001287597

Insert Size: 1419 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001287597.1](#)

RefSeq Size: 2499 bp

RefSeq ORF: 1419 bp

Locus ID: 6512

UniProt ID: [O00341](#)

Cytogenetics: 1p32.3

Protein Families: Transmembrane

MW: 51.2 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]
Transcript Variant: This variant (3) lacks an in-frame segment and uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.