

## Product datasheet for **SC334046**

### SLC1A7 (NM\_001287596) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC1A7 (NM_001287596) 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)
Fully Sequenced ORF:	>SC334046 representing NM_001287596. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**  
ATGGTGCCGATGCCATCTTGGCACGGGGAGGGACGTGTGCAGGCGGAATGGACTCCTCATCCTGTCT  
GTGCTGTCTGTCATCGTGGGCTGCCTCCTCGGCTTCTTCTTGAGGACCCGGCGCCTCACCACAGGAA  
ATTAGTTACTTCCAGTTCCTGGAGAGCTCCTGATGAGGATGCTGAAGATGATGATCCTGCCACTGGTG  
GTCTCCAGCTTGATGTCCGGACTGCCTCCCTGGATGCCAAGACCTCTAGCCGCCTGGGCGTCTCACC  
GTGGCGTACTACCTGTGGACCACCTTCATGGCTGTCATCGTGGGCATCTCATGGTCTCCATCATCCAC  
CCAGGCAGCGCGGCCAGAAGGAGACCACGGAGCAGAGTGGGAAGCCCATCATGAGCTCAGCCGATGCC  
CTGTTGGACCTCATCCGGCAGAAAGAAGAAAGTTGGAGGAACGGACCAAAGGGTCTCGCTGA  
**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001287596
Insert Size:	477 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\\_001287596.1](#)

**RefSeq Size:** 1335 bp

**RefSeq ORF:** 477 bp

**Locus ID:** 6512

**UniProt ID:** [O00341](#)

**Cytogenetics:** 1p32.3

**Protein Families:** Transmembrane

**MW:** 17.4 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 (2) lacks several exons and uses an alternate 3'-terminal exon, compared to variant 1. The encoded isoform (2) has a shorter and distinct C-terminus, compared to isoform 1.