

Product datasheet for **SC122754**

SLC1A7 (NM_006671) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC1A7 (NM_006671) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC1A7
Synonyms:	AAAT; EAAT5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

```
>OriGene sequence for NM_006671 edited
CTGGTGTTTAGCAACTCCGACCCTGCCTGCTGAGGGGCTAGAGCCCTCAGCCCAGACC
CTGTGCCCCCGGCCGGGCTCTCATGCGTGGAAATGGTGTGTGCCCTTGCCAGCAGGCCA
GGCTCACCATGGTGCCGCATGCCATCTTGGCACGGGGAGGGACGTGTGCAGGCGGAATG
GACTCCTCATCTGTCTGTGCTGTGTGCATCGTGGGCTGCCTCCTCGGTTCTTCTTGA
GGACCCGGCGCCTCTCACCACAGGAAATTAGTTACTTCCAGTTCCTGGAGAGCTCCTGA
TGAGGATGCTGAAGATGATGATCCTGCCACTGGTGGTCTCCAGCTTGATGTCCGGACTTG
CCTCCCTGGATGCCAAGACCTCTAGCCGCTGGGCGTCCCTCACCGTGGCGTACTACTGT
GGACCACCTTCATGGCTGTGCATCGTGGGCATCTTCATGGTCTCCATCATCCACCCAGGCA
GCGCGGCCCAGAAGGAGACCACGGAGCAGAGTGGGAAGCCATCATGAGCTCAGCCGATG
CCCTGTTGGACCTCATCCGGAACATGTTCCAGCCAACCTAGTAGAAGCCACATTCAAAC
AGTACCGCACCAAGACCACCCAGTTGTCAAGTCCCCAAGGTGGCACCAGAGGAGGCC
CTCCTCGGCGGATCCTCATCTACGGGGTCCAGGAGGAGAATGGCTCCCATGTGCAGAACT
TCGCCCTGGACCTGACCCCGCCGCCGAGGTCGTTTACAAGTCAAGCCGGGCACCAGCG
ATGGCATGAATGTCTGGGCATCGTCTTCTTCTGCCACCATGGGCATCATGCTGGGCC
GCATGGGTGACAGCGGGGCCCCCTGGTCACTTCTGCCAGTGCCTCAATGAGTCGGTCA
TGAAGATCGTGGCGGTGGCTGTGTGGTATTTCCCTTCGGCATTGTGTTCTCATTGCGG
GTAAGATCCTGGAGATGGACGACCCAGGGCCGTGGCAAGAAGCTGGGCTTCTACTCAG
TCACCGTGGTGTGCGGGCTGGTGTCCACGGGCTCTTTATCCTGCCCTGCTCTACTTCT
TCATCACCAGAAGAATCCCATCGTCTTCATCCGCGGCATCCTGCAGGCTCTGCTCATCG
CGCTGGCCACCTCCTCCAGCTCAGCCACACTGCCATCACCTTCAAGTGCCTGCTGGAGA
ACAACCACATCGACCGGCGCATCGCTCGTTCTGTGCTGCCCGTGGGTGCCACCATCAACA
TGGACGGCACTGCGCTCTACGAGGCTGTGGCCGCATCTTCATCGCCAGGTCAACAAT
ACGAGCTGGACTTTGGCCAGATCATCACCATCAGTATCACAGCCACTGCAGCCAGCATTG
GGCAGCTGGCATCCCCAGGCCGGCTCGTACCATGGTCATCGTGTGCTACCTCCGTGG
GACTGCCACCGATGACATCACCCTCATATTGCCGTTGACTGGGCTCTGGACCGTTTCC
GCACCATGATTAACGTGCTGGGTGATGCGCTGGCAGCGGGGATCATGGCCATATATGTC
GGAAGGATTTTGGCCGGACACAGGCACCGAGAAACTGCTGCCCTGCGAGACCAAGCCAG
TGAGCCTCCAGGAGATCGTGGCAGCCAGCAGAATGGCTGTGTGAAGAGTGTAGCCGAGG
CCTCCGAGCTCACCTGGGCCACCTGCCCCACCACGTCCCCGTTCAAGTGGAGCGGG
ATGAGGAGCTGCCGCTGCGAGTCTGAACCACTGCACCATCCAGATCAGCGAGCTGGAGA
CCAATGTCTGAGCCTGCGGAGCTCAGGGGCAGGCGAGGCTCCAGGGGCAGGGTCTGA
GGCAGGAACCTCGACTCTCCAACCCTCCTGAGCAGCCGGCAGGGGCCAGGATCACACATTC
TTCTCACCTTGAGAGGCTGGAATTAACCCCGCTTGACGGAAAATGTATCTCAGAGAAGG
GAAAGGCTGCATGGGGGAGCCCCATCCAGGGAGTGATGGGCCCGGCATTGCCTGAGGCC
CGCTGTGACAGTTTCCCGGTGTGAGCCCGGTGAGGGCGGCAGGCAGGGGTTATCCGGCC
CCACTTTCTGGATGACAGACTTGAGGCTCTGAGAGCTGAAAACACTTGTCCAAGGTCTCA
CGTAAAGGTCAAGACACTAACTCAAATCTTTCAAGCCCCGCTCTCCTCTTGAGGACAG
GGCAGCCTGCAGCTGTGTCCAGGCCAGGCCACCCCAATAACAGGTGGCCTCAGCCACA
CAGTTCTCCCAAGGGGAGCAGCCAGGGCCAAGCCCCGCTGCCTTCCCAAGGCCACAGT
GCGTCCAGTCTCCTGTCTGCCAGTGTCTTTGCAAAGCTCCTTGGATGTGGAGACAGA
TGTCTTTACTAGAGCTGAAAGGCCCTTGACACATCCAGGCCAACCTCCATGGAATAG
GTAGGCAAGCCAGGACTCCGGGAAGGAGGTGCAGCCAGGATGCTCTGGTGGAGCTGCCGA
TGGGGCCCTGGTGTGAGAACTCCCAAGGCTGTGCGTCCAAGTGGAGTCAGGTTTTCT
ATTCTTTCTGTGTTTGCAAATTCAGTGTAACTAAATAAAGGTATTTTGTTTTTCAAAA
AAAAAAAAAAAAA
```

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006671 unedited NGGGGGGAGGTCATAATTGTAATAGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCT GGTGTTTAGCAACCTCCGACCACCTGCCTGCTGAGGGGCTAGAGCCCTCAGCCCATACCC TGTGCCCCCGCCGGGCTCTCATGCGTGGAAATGGTGTGTGCCCTTGCCAGCAGGCCAG GCTCACCATGGTGCCGCATGCCATCTTGGCACGGGGGAGGGACGTGTGCAGGCGGAATGG ACTCCTCATCCTGTCTGTGTCTGTCTGTCTGTCATCGTGGGCTGCCTCCTCGGCTTCTTCTTGAG GACCCGGCGCCTCTCACCACAGGAAATTAGTTACTTCCAGTTCCTGGAGAGCTCCTGAT GAGGATGCTGAAGATGATGATCCTGCCACTGGTGGTCTCCAGCTTGATGTCCGGACTTGC CTCCTGGATGCCAAGACCTCTAGCCGCTGGGCGTCTCACCGTGGCGTACTACCTGTG GACCACCTTCATGGCTGTCTGTCATCGTGGGCATCTTCATGGTCTCCATCATCCACCCAGGCAG CGCGGCCCAGAAGGAGACCACGGAGCAGAGTGGGAAGCCCATCATGAGCTCAGCCGATGC CCTGTTGGACCTCATCCGGAACATGTTCCAGCCAACCTAGTAGAAGCCACATTCAAACA GTACCGCACCAAGACCACCCAGTTGTCAAGTCCCCAAGTGGCACCAGAGGAGGCCCT CCTCGGGGATCCTCATCTACNGNGTCCAGGAGGAGAATGGCTNCCATGTGCAGAACTTC GCCCTGGACCTGACCCCGCGCCGAGGTGTTTTACAGTCAGAGCCGGCACCACGATGCAT GATGTGCTGGCATCGTCTTTCTGACCATGGCATATGCTGGGCGAATGGTAT
Restriction Sites:	Please inquire
ACCN:	NM_006671
Insert Size:	2654 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:	<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:	NM_006671.3 , NP_006662.2
RefSeq Size:	2654 bp
RefSeq ORF:	1683 bp
Locus ID:	6512
UniProt ID:	O00341
Cytogenetics:	1p32.3
Protein Families:	Transmembrane

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 (4) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (4) 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.