

Product datasheet for **SC336078**

EAAT1 (SLC1A3) (NM_001289940) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EAAT1 (SLC1A3) (NM_001289940) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC1A3
Synonyms:	EA6; EAAT1; GLAST; GLAST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336078 representing NM_001289940. Blue=Insert sequence Red=Cloning site Green=Tag(s)

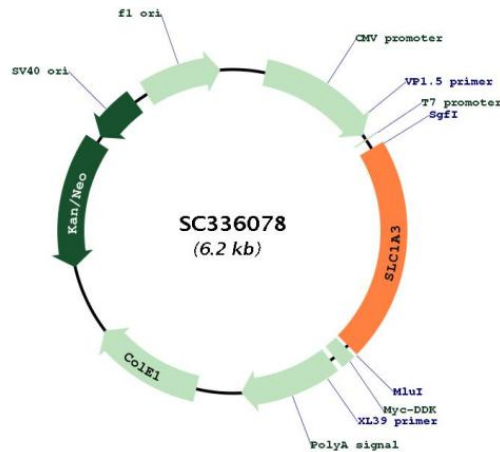
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CCATACAGAATGAGCTACCGGGAAGTCAAGTACTTCTCCTTCTGGGAACTTCTGATGAGGATGTTA
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001289940

Insert Size: 1293 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_001289940.1](#)

RefSeq Size: 3852 bp

RefSeq ORF: 1293 bp

Locus ID: 6507

UniProt ID: [P43003](#)

Cytogenetics: 5p13.2

Protein Families: Transmembrane

MW: 47.1 kDa

Gene Summary:

This gene encodes a member of a member of a high affinity glutamate transporter family. This gene functions in the termination of excitatory neurotransmission in central nervous system. Mutations are associated with episodic ataxia, Type 6. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Feb 2014]

Transcript Variant: This variant (GLAST1c, PMID:22026960) lacks two alternate in-frame exons in the coding region, compared to variant GLAST. The encoded protein (isoform 5) 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.