

Product datasheet for RC206281L3

OriGene Technologies, Inc.

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EAAT3 (SLC1A1) (NM_004170) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: EAAT3 (SLC1A1) (NM_004170) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: EAAT3

Synonyms: DCBXA; EAAC1; EAAT3; SCZD18

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC206281).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_004170

ORF Size: 1572 bp





EAAT3 (SLC1A1) (NM_004170) Human Tagged Lenti ORF Clone - RC206281L3

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: 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 004170.4</u>

 RefSeq Size:
 3757 bp

 RefSeq ORF:
 1575 bp

 Locus ID:
 6505

 UniProt ID:
 P43005

Cytogenetics: 9p24.2

Domains: SDF

Protein Families: Druggable Genome, Transmembrane

MW: 57.1 kDa

Gene Summary: This gene encodes a member of the high-affinity glutamate transporters that play an

essential role in transporting glutamate across plasma membranes. In brain, these transporters are crucial in terminating the postsynaptic action of the neurotransmitter glutamate, and in maintaining extracellular glutamate concentrations below neurotoxic levels. This transporter also transports aspartate, and mutations in this gene are thought to cause

dicarboxylicamino aciduria, also known as glutamate-aspartate transport defect. [provided by

RefSeq, Mar 2010]