

Product datasheet for **SC332208**

EAAT2 (SLC1A2) (NM_001252652) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: EAAT2 (SLC1A2) (NM_001252652) Human Untagged Clone
Tag: Tag Free
Symbol: EAAT2
Synonyms: DEE41; EAAT2; EIEE41; GLT-1; HBGT
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332208 representing NM_001252652.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCCCAAGCAGGTGGAAGTGCGAATGCACGACAGTCATCTTGGCTCAGAGGAACCCAAGCACCGGCAC
CTGGGCCTGCGCCTGTGTGACAAGCTGGGGAAGAATCTGCTGCTCACCCCTGACGGTGTGGTGTGCATC
CTGGGAGCAGTGTGTGGAGGGCTTCTTCGCTTGGCATCTCCATCCACCCTGATGTGTTATGTTAATA
GCCTTCCCAGGGGATATACTCATGAGGATGCTAAAAATGCTCATTCTCCCTCTAATCATCTCCAGCTTA
ATCACAGGGTTGTCAGGCCTGGATGCTAAGGCTAGTGGCCGCTTGGGCACGAGAGCCATGGTGTATTAC
ATGTCCACGACCATCATTGCTGCAGTACTGGGGTTCATTCTGGTCTTGGCTATCCATCCAGGCAATCCC
AAGCTCAAGAAGCAGCTGGGGCCTGGGAAGAAGAATGATGAAGTGTCCAGCCTGGATGCCTTCTGGAC
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AAAGTCTCGTTGCACCACCGCCGGACGAGGAGGCCAACGCAACCAGCGCTGTTGTCTCTGTTGAAC
GAGACTGTGACTGAGGTGCCGGAGGAGACTAAGATGGTTATCAAGAAGGGCCTGGAGTTCAGGATGGG
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GCCAAGCTGATGGTGGATTTCTCAACATTTTGAATGAGATTGTAATGAAGTTAGTGATCATGATCATG
TGGTACTCTCCCTGGGTATCGCTGCCTGATCTGTGAAAGATCATTGCAATCAAGGACTTAGAAGTG
GTTGCTAGGCAACTGGGATGTACATGGTAACAGTGATCATAGGCCTCATCATCCACGGGGCATCTTT
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GTGGACTGGCTGCTGGACAGGATGAGAACTTCAGTCAATGTTGTGGGTGACTCTTTGGGCTGGGATA
GTCTATCACCTCTCCAAGTCTGAGCTGGATACCATTGACTCCCAGCATCGAGTGCATGAAGATATTGAA
ATGACCAAGACTCAATCCATTTATGATGACATGAAGAACCACAGGAAAGCAACTTAATCAATGTGTC
TATGCTGCACACAACCTCTGTCATAGTAGATGAATGCAAGGTAACCTGGCAGCCAATGAAAAGTCAGCC
GACTGCAGTGTGAGGAAGAACCTTGGAAACGTGAGAAATAA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001252652



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Insert Size:	1698 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:	<u>NM_001252652.1</u>
RefSeq Size:	11724 bp
RefSeq ORF:	1698 bp
Locus ID:	6506
UniProt ID:	<u>P43004</u>
Cytogenetics:	11p13
Protein Families:	Transmembrane
Protein Pathways:	Amyotrophic lateral sclerosis (ALS)
MW:	61.2 kDa
Gene Summary:	<p>This gene encodes a member of a family of solute transporter proteins. The membrane-bound protein is the principal transporter that clears the excitatory neurotransmitter glutamate from the extracellular space at synapses in the central nervous system. Glutamate clearance is necessary for proper synaptic activation and to prevent neuronal damage from excessive activation of glutamate receptors. Improper regulation of this gene is thought to be associated with several neurological disorders. Alternatively spliced transcript variants of this gene have been identified. [provided by RefSeq, Jun 2017]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream, in-frame start codon, compared to variant 1. Variants 2 and 3 encode the same isoform (2), which is shorter than isoform 1.</p>