

Product datasheet for **SC310255**

EAAT2 (SLC1A2) (NM_004171) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EAAT2 (SLC1A2) (NM_004171) Human Untagged Clone
Tag:	Tag Free
Symbol:	EAAT2
Synonyms:	DEE41; EAAT2; EIEE41; GLT-1; HBGT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004171 edited
 CTGCCGGATAGTGCTGAAGAGGAGGGGGCGTTCCCCAGACCATGGCATCTACGGAAGGTG
 CCAACAATATGCCCAAGCAGGTGGAAGTGCGAATGCACGACAGTCATCTTGGCTCAGAGG
 AACCCAAGCACCGGCACCTGGGCCTGCGCCTGTGTGACAAGCTGGGGAAGAATCTGCTGC
 TCACCCCTGACGGTGTGGTGTGCATCCTGGGAGCAGTGTGTGGAGGGCTTCTTCGCTTGG
 CATCTCCCATCCACCCTGATGTGGTTATGTTAATAGCCTTCCCAGGGGATATACTCATGA
 GGATGCTAAAAATGCTCATTCTCCCTCTAATCATCTCCAGCTTAATCACAGGGTTGTCAG
 GCCTGGATGCTAAGGCTAGTGGCCGCTTGGGCACGAGAGCCATGGTGTATTACATGTCCA
 CGACCATCATTGTGCTGCACTACTGGGGTCTATTCTGGTCTTGGCTATCCATCCAGGCAATC
 CCAAGCTCAAGAAGCAGCTGGGGCTGGGAAGAAGAATGATGAAGTGCCAGCCTGGATG
 CCTTCTGGACCTTATTCGAAATCTTCCCTGAAAACCTTGCCAAGCCTGCTTTCAAC
 AGATTCAAACAGTGACGAAGAAAGTCCTGGTTGCACCACCGCCGACGAGGAGGCCAACG
 CAACCAGCGCTGTGTCTCTGTGTAACGAGACTGTGACTGAGGTGCCGAGGAGACTA
 AGATGGTTATCAAGAAGGCCTGGAGTTCAAGGATGGGATGAACGCTTAGGTCTGATAG
 GGTTTTTTATTGCTTTTGGCATCGCTATGGGAAGATGGGAGATCAGGCCAAGCTGATGG
 TGGATTTCTTCAACATTTGAATGAGATTGTAATGAAGTTAGTGATCATGATCATGTGGT
 ACTCTCCCTGGGTATCGCCTGCCTGATCTGTGAAAGATCATTGCAATCAAGGACTTAG
 AAGTGGTTGCTAGGCAACTGGGGATGTACATGGTAACAGTGATCATAGGCCTCATCATCC
 ACGGGGGCATCTTTCTCCCTTGATTTACTTTGTAGTGACCAGGAAAAACCCCTTCTCCT
 TTTTTGCTGGCATTTCGAAGCTGGATCACTGCCCTGGGCACCCTTCCAGTGTGGAA
 CTTTGCCTGTACCTTCGTTGCCTGGAAGAAAATCTGGGGATTGATAAGCGTGTGACTA
 GATTCGTCCTTCTGTTGGAGCAACCATTAACATGGATGGTACAGCCCTTATGAAGCGG
 TAGCCCGCATCTTTATAGCCCAAATGAATGGTGTGTCCTGGATGGAGGACAGATTGTGA
 CTGTAAGCCTCACAGCCACCCTGGCAAGCGTCGGCGCGGCCAGTATCCCCAGTGCCGGGC
 TGGTCACCATGCTCCTCATTCTGACAGCCGTGGGCCTGCCAACAGAGGACATCAGCCTGC
 TGGTGGCTGTGGACTGGCTGCTGGACAGGATGAGAACTCAGTCAATGTTGTGGGTGACT
 CTTTTGGGGCTGGGATAGTCTATCACCTCTCCAAGTCTGAGCTGGATACCATTGACTCCC
 AGCATCGAGTGCATGAAGATATTGAAATGACCAAGACTCAATCCATTTATGATGACATGA
 AGAACCACAGGAAAGCAACTCTAATCAATGTGTCTATGCTGCACACAACTCTGCATAG
 TAGATGAATGCAAGGTAAGTCTGGCAGCCAATGGAAGTCAAGCCGACTGCAGTGTGAGG
 AAGAACCTTGGAAACGTGAGAAAATGAGGATATGAGTCTCAGCAAATCTTGAATAAACTC
 CCCAGCGTATCCTATGGTAACTGATGATATAAACAAAGTTTCTTTAAAAAAAAAAAAAAAA
 AA

Restriction Sites: Please inquire

ACCN: NM_004171

Insert Size: 1900 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).

OTI Annotation: It is not a variant.

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_004171.2 , NP_004162.2
RefSeq Size:	11692 bp
RefSeq ORF:	1725 bp
Locus ID:	6506
UniProt ID:	P43004
Cytogenetics:	11p13
Domains:	SDF
Protein Families:	Transmembrane
Protein Pathways:	Amyotrophic lateral sclerosis (ALS)
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 (1) represents the longest transcript and encodes the longer isoform (1).</p>