

Product datasheet for **SC127753**

EAAT2 (SLC1A2) (AK090810) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EAAT2 (SLC1A2) (AK090810) Human Untagged Clone
Tag:	Tag Free
Symbol:	EAAT2
Synonyms:	EAAT2; 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: >NCBI ORF sequence for AK090810, the custom clone sequence may differ by one or more nucleotides

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AAAGTGCCTGGATTACAGGCGTGAGCCACCGTGCCCGGCCAGAAAATACATTCTTTACAGCAAATGTTAT
AGGTTAAGGAGACAGTTCCTGGGTTTAGCTGTGAAACTGTTTAGGATTTTCTTAAAGTGGTGTCCCAAG
AGCTTTTTTCTGGTAAGTTGGAGGCTATAGGCAAAGCGCTAGGAGCTTGTGTTTTTGTATGGAAGG
CCAGCTTTGGGATCTATATACATGGGCATGTTTCTCAATGGAGTGGTACAGGATTCTCTTCTCAGAACT
CTGCCTGAAACCTTTCCGGTGTGTTTTGTCTTCAACTTTTTCTAGCTATCCTATTAGCCTGTAATAATG
TCAGCAGACAATGTGTTTGAAGAAACAAGGTGTACAACCTCACAAAGCAAGTTTTTCTGGTCTGAGAC
TACTGTGTGCAGGAAGTCTCGTGAGAATATACTTAGAAAATCACACTTATCTGGAAATCAATAAGTCA
TATTAATAATATAACAATTTCTGAACTCAGGACTAGCCTGAAAATCCAAAATGCATGTAGAGTTGACATG
TTGACATATGTCTATGCCTCTGTTTTATGTAAGCCTCATTTATTTCTCCCTTGCCATGCCATTTGGG
ATTTTCTTTGCCAGCATATGTGCCATAAACAGAACAAAATGGATCCAGGGTATACCTCTAATAACCTTTA
TCTAAATAGAATACATTTAACCTGTCAATTATATGTATAGATTTATCCTAATTGGTTCAACATATATATG
AATGCTTGTAAATAGTCTGTTACTATTTGATAATGCATAAATGTTATATTTATACAGTTACAGCAGGCC
AGAAAACATACATACACTGCATCCTGTAAGGTCTGTAATCAGGGCTTCGCAATGCCATTTTGTATAGA
CTCATTGATTTTTTAGGAATCAGAATCATTTCAGGAGAAAACCAACTAAGTAGACTTTAATTCTTCTC
TTTCTCATTCTTGCCCTTTGAGAAACCAAGTGGAAATCATCACTTAATTACTTACTCAAATTCATGAAT
CAAATCCAATCCAATCAGTGAGAAGAATAGCTTATCTTCAAGGTAATACTTTACCTTAGATCTTTGAGG
GCATGCTTCCCATACAAAGAGCATCAGAAAATCAGGGCAATCATCTAGATCTCACAGATCTTCAACATAG
GACTCAGGTTATGAGAGCTGAACCACATAGCTATCAGTTTCAGTTTTACTTCTATTGAGTGTGATGA
AACACAGCCTATGGTTTTGTCTGTGCAGAAGTTACCATACCCTGTAAGAACAAAATTTCTTTCTCCT
CTCGAACCACTAGTCAGCCTGGATATTCATGAAAAGCTGAAAGAAGGGGTGCCAAAATGCCTAGCTCCTGG
ATTTAGACTCATGGAATATGAGAAAGGCTTAGGAAAAATCAAGTCATGGGGAGATTCTGCTAGGTGAT
GCCAGGAATCTCAATGACCTGTTGATTAGAGGGTCTCTGGTCATTTCCACTTGTGTGGAGAAATACAT
CATTTGCATATGTATCTAGTCAAGAAGCCCTTTGGAGCAAAGTGGTTGGGAAACTCATTTACTGGGTCC
ACCAAAGGAAACCAATCTGCCATGTTTTGCAAACTACACGTCCCTTTGCTCTCAATAGCAAAAAGT
GATGTTATAGTTTTTTTTACTTTTTGTGAGAATCAAGGCTTCGGCCACCTGTGCAATATTTCCCATGGAA
TGCAGCAGTAAATCCAAGTAGGTATATCCGTGCTCAGAGAGAATTCTCCATAGTTCTGACTCCTGAAAAA
CAAGTCTCATTAGCTCTCATCTAGTTTGATGACTAAAAGTGCACAGCAGTTATACCCAGTGAAGTGTAT
TTTTCTACCTAGCTGCTCTATCTCTTACGGCTATCTAGTTGTCTGAGCTGCTGGTTTTGTTTTACTTA
TTCTCAAAGTGAATCATTCAAACCAAGAAAAAGGACCAATGAAATTTTCAGTTATTATCATACTTGC
TCCTTGAATAAGAATGCTAGAGTCTGGAGGCAGAAGAAGACTAAGTT
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK090810 unedited

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TTTGTAATACGACTCACTATAGGCGCGCCGCAATTCGCACGAGAAAAGCCTAGCTCCTG
GATTTTGGCACCCCTTCTTTAGCTTTTCAATGAATATCCAGGCTGACTAGTGGTTCGAGAG
GAGAAAGAAAGGGTGCCAAAATGCCTAGCTCCTGGATTTAGACTCATGGAATATGAGAAA
GGCTTAGGAAAAATCAAGTCATGGGGAGATTCTGCTAGGTGATGCCAGGAATCTCAAT
GACCTGTTGATTAGAGGGTCTCTGGTCATTTCCACTTGTGTGGAGAAATACATCATT
GCATATGTATCTAGTCAAGAAGCCCTTTGGAGCAAAGTGGTTGGGAAACTCATTTACTG
GGTCCACCAAAGGAAACCAATCTGCCATGTTTTGCAAACTACACGTCCCTTTGCT
CTCAATAGCAAAAAGTGTATAGTTTTTTTTACTTTTTGTGAGAATCAAGGCTTCGGCC
ACCTGTGCAATATTTCCATGGAATGCAGCAGTAAATCCAAGTAGGTATATCCCGTGT
CAGAGAGAATTTCCATAGTTCTGACTCCTGAAAAACAAGTCTCATTAGCTCTCATCTAG
TTTGATGACTAAAAGTGCACAGCAGTTATACCCAGTGAAGTGTATTTTCTCACCTAGC
TGCTCTCTAACTCTACGGCTATCTAGTTGTCTGAGCTGCTGGTTTTGTTTTACTTATTCT
NCAAAGTACTCATTCCANACCAAGAAAAAGACCAATGAAATNNTCAGTTTTATCATAC
TTGCTCCTTNGATAAATGCTAGAGTCTGGAGCAGAAAAGACTAGTTAANAAAAACACT
GAAGATTCTGNAGTGAGTTTTGTAGTCTAATGCAAGAGAAAATC
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Restriction Sites:	NotI-NotI
ACCN:	AK090810
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:	AK090810.1
RefSeq Size:	2077 bp
RefSeq ORF:	2077 bp
Locus ID:	6506
Cytogenetics:	11p13
Protein Families:	Transmembrane
Protein Pathways:	Amyotrophic lateral sclerosis (ALS)
Gene Summary:	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]