

Product datasheet for **RC238184**

EAAT1 (SLC1A3) (NM_001289940) Human Tagged ORF Clone

Product data:

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|--------------------------|--------------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | EAAT1 (SLC1A3) (NM_001289940) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | SLC1A3 |
| Synonyms: | EA6; EAAT1; GLAST; GLAST1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RC238184 representing NM_001289940 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTAAAGCAATGGAGAAGAGCCCAAGATGGGGGCGAGGATGGAGAGATTCCAGCAGGGAGTCCGTA
AACGCACACTTTTGGCCAAGAAGAAAGTGCAGAACATTACAAAGGAGGATGTTAAAAGTTACCTGTTTCG
GAATGCTTTTGTGCTGCTCACAGTCACCGCTGTCATTGTGGGTACAATCCTTGGATTTACCTCCGACCA
TACAGAATGAGCTACCGGAAGTCAAGTACTTCTCCTTTCTGGGAACTTCTGATGAGGATGTTACAGA
TGCTGGTCTTACCACTTATCATCTCCAGTCTTGTACAGGAATGGCGGCGCTAGATAGTAAGGCATCAGG
GAAGATGGGAATGCGAGCTGTAGTCTATTATGACTACCACCATCATTGCTGTGGTGATTGGCATAATC
ATTGTCATCATATCCATCCTGGGAAGGGCACAAAGGAAAACATGCACAGAGAAGGCAAAATGTACGAG
TGACAGCTGCAGATGCCTTCTGGACTTGATCAGGTATGCCCCGTTGGTATTCTCTTCTGATTGCTGG
GAAGATTGTGGAGATGGAAGACATGGGTGTGATTGGGGGCGAGCTGCCATGTACACCGTGACTGTCATT
GTTGGCTTACTCATTACGCAGTCATCGTCTTGCCACTCCTCTACTTCTTGGTAACACGGAAAAACCCCT
GGGTTTTTATTGGAGGGTTGCTGCAAGCACTCATCACCGCTCTGGGACCTCTTCAAGTTCTGCCACCCT
ACCCATCACCTTCAAGTGCCTGGAAGAGAACAATGGCGTGGACAAGCGCTCACAGATTCTGCTCCCC
GTAGGAGCCACCATTAACATGGATGGGACTGCCCTCTATGAGGCTTTGGTGCCATTTTCATTGCTCAAG
TTAAACACTTTGAACTGAACTTCGGACAAATTATTACAATCAGCATCACAGCCACAGCTGCCAGTATTGG
GGCAGCTGGAATTCCTCAGGCGGGCCTGGTCACTATGGTCATTGTGCTGACATCTGTGCGCTGCCACT
GACGACATCACGCTCATCATCGCGGTGGACTGGTTCCTGGATCGCTCCGGACCACCACCAACGTAAGTGG
GAGACTCCCTGGGAGCTGGGATTGTGGAGCACTTGTACGACATGAACTGAAGAACAGAGATGTTGAAAT
GGGTAAGTCAAGTGAAGAGAATGAAATGAAGAAACCATATCAACTGATTGCACAGGACAATGAAACT
GAGAAACCATCGACAGTGAACCAAGATG

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC238184 representing NM_001289940
 Red=Cloning site Green=Tags(s)

MTKSNGEPEPKMGGRMERFQQGVRKRTLLAKKKVQNTKEDVKSYLFRNAFVLLTAVIVGTILGFTLRP
 YRMSYREVKYFSFPGELLMRMLQMLVPLIISSLVGTMAALDSKASGKMGMRVAVVYMTTIIAVVIGII
 IVIIHPGKGTKENMHREGKIVRVTAADAFDLIRYAPVGIIFLIAGKIVEMEDMGVIGGQLAMYTVTVI
 VGLLIHAVIVLPLLYFLVTRKNPWFVIGLLQALITALGTSSSSATLPITFKCLEENNGVDKRVTRFVLP
 VGATINMDGTALYEALAAIFIAQVNNFELNFGQIITISITATAASIGAAGIPQAGLVTMVIVLTSVGLPT
 DDITLIIAVDWFLDRLRRTTNNVLGDSL GAGIVEHL SRHELKNRD VEMGNSVIEENEMKKPYQLIAQDNET
 EKPIDSETKM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

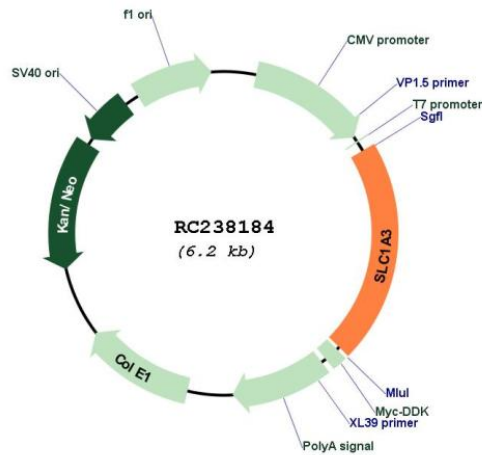
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001289940

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ORF Size: | 1290 bp |
| 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: | <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_001289940.1 , NP_001276869.1 |
| RefSeq Size: | 3852 bp |
| RefSeq ORF: | 1293 bp |
| Locus ID: | 6507 |
| UniProt ID: | P43003 |
| Cytogenetics: | 5p13.2 |
| Protein Families: | Transmembrane |
| MW: | 47.5 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] |