

## Product datasheet for **RG238184**

### EAAT1 (SLC1A3) (NM\_001289940) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EAAT1 (SLC1A3) (NM_001289940) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EAAT1
Synonyms:	EA6; EAAT1; GLAST; GLAST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238184 representing NM_001289940. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTAAAAGCAATGGAGAAGAGCCAAAGATGGGGGCGAGGATGGAGAGATTCCAGCAGGGAGTCCGT
AAACGCACACTTTTGGCCAAGAAGAAAGTGCAGAACATTACAAAGGAGGATGTTAAAAGTTACCTGTTT
CGGAATGCTTTTGTGCTGCTCACAGTCACCGCTGTCATTGTGGGTACAATCCTTGGATTTACCCTCCGA
CCATACAGAATGAGCTACCGGGAAGTCAAGTACTTCTCCTTTCTGGGAACTTCTGATGAGGATGTTA
CAGATGCTGGTCTTACCACTTATCATCTCCAGTCTTGTCACAGGAATGGCGGCGTAGATAGTAAGGCA
TCAGGGAAGATGGGAATGCGAGCTGTAGTCTATTATGACTACCACCATCATTGCTGTGGTGATTGGC
ATAATCATTGTGCATCATCCATCCTGGGAAGGGCACAAGGAAAACATGCACAGAGAAGGCAAAATT
GTACGAGTGACAGCTGCAGATGCCTTCTGGACTTGATCAGGTATGCCCCGTTGGTATTCTCTTCTCTG
ATTGCTGGGAAGATTGTGGAGATGGAAGACATGGGTGTGATTGGGGGCGAGCTTGCCATGTACACCGTG
ACTGTCATTGTTGGCTTACTCATTACCGCAGTCATCGTCTTGCCACTCCTCTACTTCTTGGTAACACGG
AAAAACCTTGGGTTTTTATTGGAGGGTTGCTGCAAGCACTCATCACCCTCTGGGGACCTTCAAGT
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TTCGTGCTCCCGTAGGAGCCACCATTAACATGGATGGGACTGCCCTCTATGAGGCTTTGGCTGCCATT
TTCATTGCTCAAGTTAACAACCTTGAACCTGAACTCGGACAAATTATTACAATCAGCATCACAGCCACA
GCTGCCAGTATTGGGGCAGCTGGAATTCCTCAGGCGGGCCTGGTCACTATTGGTCATTGTGCTGACATCT
GTCGGCCTGCCACTGACGACATCACGCTCATCATCGCGGTGGACTGGTTCTGGATCGCCTCCGGACC
ACCACCAACGTAAGGAGACTCCCTGGGAGCTGGGATTGTGGAGCACTGTACGACATGAACTGAAG
AACAGAGATGTTGAAATGGGTAACCTCAGTGATTGAAGAGAATGAAATGAAGAAACCATATCAACTGATT
GCACAGGACAATGAACTGAGAAACCCATCGACAGTGAACCAAGATG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG238184  
 Blue=ORF Red=Cloning site Green=Tag(s)

MTKSNGEPEPKMGGRMERFQQGVRKRTLLAKKKVQNTKEDVKSYLFRNAFVLLTVTAVIVGTILGFTLR  
 PYRMSYREVKYFSFPGELLMRMLQMLVPLIISLVTGMAALDSKASGKMGMRVAVVYMTTIIAVVIG  
 IIVVIIHHPGKGTENMHREGKIVRVTAADAFDLIRYAPVIGILFLIAGKIVEMEDMGVIGGQLAMYTV  
 TVIVGLLIHAVIVLPLL YFLVTRKNPWVFIGLLQALITALGTSSSATLPITFKCLEENNGVDKRVTR  
 FVLVPGATINMDGTALYEALAAIFIAQVNNFELNFGQIITISITATAASIGAAGIPQAGLVTMVIVLTS  
 VGLPTDDITLIIAVDWFLDRLRTTTNVLGDLSGAGIVEHLRHELKNRDVEMGNSVIEENEMKKPYQLI  
 AQDNETEKPIDSETKM  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001289940

**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).

**RefSeq:** [NM\\_001289940.1](#), [NP\\_001276869.1](#)

RefSeq Size: 3852 bp  
 RefSeq ORF: 1293 bp  
 Locus ID: 6507

UniProt ID: [P43003](#)

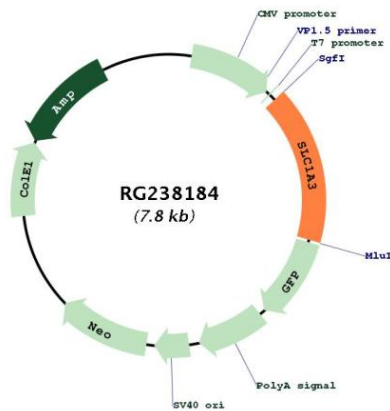
Cytogenetics: 5p13.2

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]

**Product images:**



Circular map for RG238184