

## Product datasheet for **RG238567**

### **EAAT1 (SLC1A3) (NM\_001289939) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EAAT1 (SLC1A3) (NM_001289939) 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)



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**ORF Nucleotide Sequence:**

>RG238567 representing NM\_001289939.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACTAAAAGCAATGGAGAAGAGCCCAAGATGGGGGCCAGGATGGAGAGATTCCAGCAGGGAGTCCCGT
AAACGCACACTTTTGGCCAAGAAGAAAGTGCAGAACATTACAAAGGAGGATGTTAAAAGTTACCTGTTT
CGGAATGCTTTTGTGCTGCTCACAGTCACCGCTGTCATTGTGGGAATGGCGGCGCTAGATAGTAAGGCA
TCAGGGAAGATGGGAATGCGAGCTGTAGTCTATTATGACTACCACCATCATTGCTGTGGTGATTGGC
ATAATCATTGTCAATCATCCATCCTGGGAAGGGCACAAAGGAAAAACATGCACAGAGAAGGCAAAATT
GTACGAGTGACAGCTGCAGATGCCTTCTGGACTTGATCAGGAACATGTTCCCTCCAAATCTGGTAGAA
GCCTGCTTTAAACAGTTTAAAACCAACTATGAGAAGAGAAGCTTTAAAGTGCCCATCCAGGCCAACGAA
ACGCTTGTGGGTGCTGTGATAAACAATGTGTCTGAGGCCATGGAGACTTTACCCGAATCACAGAGGAG
CTGGTCCCAGTTCAGGATCTGTGAATGGAGTCAATGCCCTGGGTCTAGTTGCTTCTCCATGTGCTTC
GGTTTTGTGATTGAAACATGAAGGAACAGGGGCAGGCCCTGAGAGAGTTCTTTGATTCTCTTAACGAA
GCCATCATGAGACTGGTAGCAGTAATAATGTGGTATGCCCCCGTGGGTATTCTTCTCCTGATTGCTGGG
AAGATTGTGGAGATGGAAGACATGGGTGTGATTGGGGGGCAGCTTGCCATGTACACCGTGACTGTCATT
GTTGGCTTACTCATTACGCAGTCATCGTCTTGCCACTCCTCTACTTCTTGGTAACACGGAAAAACCTT
TGGGTTTTTATTGGAGGGTTGCTGCAAGCACTCATCACCGCTCTGGGGACCTCTTCAAGTTCTGCCACC
CTACCCATCACCTTCAAGTGCCTGGAAGAGAACAATGGCGTGGACAAGCGCGTACCAGATTCTGTGCTC
CCCGTAGGAGCCACCATTAACATGGATGGGACTGCCCTCTATGAGGCTTTGGCTGCCATTTTCATTGCT
CAAGTTAAACAACTTTGAAGTGAAGTTCGGACAAATTTACAATCAGCATCACAGCCACAGCTGCCAGT
ATTGGGGCAGCTGGAATTCCTCAGGCGGGCTGGTCACTATGGTATTGTGCTGACATCTGTCGGCCTG
CCCACTGACGACATCACGCTCATCATCGCGGTGGACTGGTTCTGGATCGCTCCGGACCACCACCAAC
GTACTGGGAGACTCCCTGGGAGCTGGGATTGTGGAGCACTGTACGACATGAACTGAAGAACAGAGAT
GTTGAAATGGGTAAGTCAAGTATTGAAGAGAATGAAATGAAGAAACCATATCAACTGATTGCACAGGAC
AATGAAACTGAGAAACCCATCGACAGTGAACCAAGATG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238567  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MTKSNGEPEKMGGRMERFQQGVRKRTLLAKKKVQNIKEDVKSYLEFRNAFVLLTVTAVIVGMAALDSKA
SGKMGMRVAVVYMTTIIIAVVIGIIIVIIHHPGKGTKENMHREGKIVRVTAADAFDLIRNMFPPNLVE
ACFKQFKTNYEKRSFKVPIQANETLVGAVINNVSEAMETLTRITEELVPVPGSVNGVNALGLVVFVSMCF
GFVIGNMKEQQALREFFDLSNEAIMRLVAVIMWYAPVGILFLIAGKIVEMEDMGVIGQLAMYTVTVI
VGLLIHAVIVLPLLYFLVTRKNPWFVIGLLQALITALGTSSSSATLPIITFKLEENNGVDKRVTRFVL
PVGATINMDGTALYEALAAIFIAQVNNFELNFGQIITISITATAASIGAAGIPQAGLVTMVIVLTSVGL
PTDDITLIIAVDWFLDRLRTTTNVLGDSLGAIVVHLSRHELKNRDVEGMNSVIEENEMKKPYQLIAQD
NETEKPIDSETKM
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDVSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001289939

**ORF Size:** 1488 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\\_001289939.1](#), [NP\\_001276868.1](#)

**RefSeq Size:** 4050 bp

**RefSeq ORF:** 1491 bp

**Locus ID:** 6507

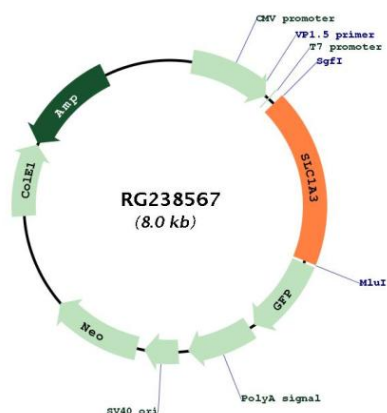
**Cytogenetics:** 5p13.2

**Protein Families:** Transmembrane

**MW:** 54.7 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 RG238567