

Product datasheet for **RG239124**

SLC1A7 (NM_001287595) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC1A7 (NM_001287595) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC1A7
Synonyms:	AAAT; EAAT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG239124 representing NM_001287595.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTCCGCATGCCATCTTGGCACGGGGAGGGACGTGTGCAGGCGGAATGGACTCCTCATCCTGTCT
GTGGCTGTCTGTATCGTGGGCTGCCCTCCGCTTCTTCTTGAGGACCCGGCGCCTCTACCACAGGAA
ATTAGTTACTTCCAGTTCCTGGAGAGCTCCTGATGAGGATGCTGAAGATGATGATCCTGCCACTGGTG
GTCTCCAGCTTGTATGCCGACTTGCTCCCTGGATGCCAAGACCTCTAGCCGCCTGGGCGTCTCACC
GTGGCGTACTACCTGTGGACCACCTTCATGGTGTATCGTGGGCATCTTCATGGTCTCCATCATCCAC
CCAGGCAGCGCGGCCAGAAGGAGACCACGGAGCAGAGTGGGAAGCCATCATGAGCTCAGCCGATGCC
CTGTTGGACCTCATCCGGAACATGTTCCAGCCAACTAGTAGAAGCCACATTCAAACAGTACCGCACC
AAGACCACCCAGTTGTCAAGTCCCCAAGGTGGCACCAGAGGAGGCCCTCCTCGGCGGATCCTCATC
TACGGGGTCCAGGAGGAGTGGCTCCCATGTGCAGAACTTCGCCCTGGACCTGACCCCGCCCGCCGAG
GTCGTTTACAAGTCAGAGCCGGGCACCAGCGATGGCATGAATGTGCTGGGCATCGTCTTCTCTGCC
ACCATGGGCATCATGCTGGGCGCATGGGTGACAGCGGGGCCCCCTGGTCAGCTTCTGCCAGTGCCTC
AATGAGTCGGTCAAGATCGTGGCGGTGGCTGTGTGGTATTTCCCTTCGGCATTGTGTTCTCATT
GCGGGTAAAGTCCCTGGAGATGGACGACCCAGGGCCGTCCGCAAGAAGCTGGGCTTCTACTCAGTCACC
GTGGTGTGCGGGCTGGTCTCCACGGGCTCTTTATCCTGCCCTGCTCTACTTCTTCATACCAAGAAG
AATCCCATCGTCTTCATCCGTGGCATCCTGCAGGCTCTGCTCATCGCGCTGGCCACCTCCTCCAGGAAG
AACCAAGTGAGAGCACTGCAGTCCCGCGGTCTTACCTCCTGCCGAGCAGCGTGCAGAGGCACAAA
CACTCCTGGCGGGTGGTGCCTGGGAGGGGTGAGCTTCCCACAGAGGCCACCCATCCTTCAAGTCCCTG
GGTGTGGGAGACACCGGCCCTCTAACCGTAGCTCAGCCACACTGCCATCACCTTCAAGTCCCTG
CTGGAGAACAACCACATCGACCGCGCATCGCTCGCTTCTGCTGCCCGTGGGTGCCACCATCAACATG
GACGGCACTGCGCTCTACGAGGCTGTGGCCGCATCTTCATCGCCAGGTCAACAACACGAGCTGGAC
TTTGGCCAGATCATCACCATCAGTATCACAGCCACTGCAGCCAGCATTGGGGCAGCTGGCATCCCCAG
GCCGGCTCGTACCATGGTATCGTGTCTCACCTCCGTGGGACTGCCACCGATGACATCACCTCATC
ATTGCCGTTGACTGGGCTCTGGACCGTTTCCGCACCATGATTAACGTGCTGGGTGATGCGCTGGCAGCG
GGGATCATGGCCATATATGTCGGAAGGATTTGCCCGGACACAGGCACCGAGAACTGCTGCCCTGC
GAGACCAAGCCAGTGCAGCTCCAGGAGATCGTGGCAGCCAGCAGAATGGCTGTGTGAAGAGTGTAGCC
GAGGCCTCCGAGCTCACCTGGGCCCCACCTGCCCCACCACGTCCCGTTCAAGTGGAGCAGGATGAG
GAGCTGCCCGCTGCGAGTCTGAACCACTGCACCATCCAGATCAGTGAAGTGGAGACCAATGTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG239124
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MVPHAILARGRDVCRNGLLILSVLSVIVGCLLGFLLRTRRLSPQEISYFQFPGELLMRMLKMMILPLV
VSSLMGLASLDAKTSSRLGVLTVAYYLWTFMAVIVGIFMVISIHPGSAQKETTEQSGKPISSADA
LLDLIRNMFANLVEATFKQYRTKTPVVKSPKVAPEEAPRRILYGVQEENGSHVQNFALDLTPPE
VYKSEPGTSDGMNVLGIVFFSATMGIMLGRMGDSGAPLVSFQCLNESVMKIVAVAVWYFPFGIVFLI
AGKILEMDDPRAVGKLGKGFYSVTVVCGLVLHGLFILLPLLYFFITKKNPIVIRGILQALLIALATSSRK
NQVRALQCPRLPPAGAALQRHKHSWRGGCLGRGELPDRGPSHPGGCWADTGPSNRSSATLPITFKCL
LENNHIDRRIARFVLPVGINMDGTALYEVAEIFIAQVNNYELDFGQIITISITATAASIGAAGIPQ
AGLVTMVIVLTSVGLPTDDITLIIAVDWALDRFRTMINVLGDALAGIMAHICRKFARDTGTEKLLPC
ETKPVSLQEIVAAQQNGCVKSVAEASELTLGPTCPHHVPVQVEQDEELPAASLNHCTIQISELETNV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIIRSNATVEHLHPMGDNDLDGFSFTRFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-MluI

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_001287595.2
RefSeq Size:	2873 bp
RefSeq ORF:	1860 bp
Locus ID:	6512
Cytogenetics:	1p32.3
Protein Families:	Transmembrane
MW:	67.4 kDa
Gene Summary:	Transports L-glutamate; the L-glutamate uptake is sodium- and voltage-dependent and chloride-independent. Its associated chloride conductance may participate in visual processing.[UniProtKB/Swiss-Prot Function]