

Product datasheet for **RG204182**

SLC1A7 (NM_006671) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC1A7 (NM_006671) 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)



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ORF Nucleotide Sequence:

>RG204182 representing NM_006671
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCCGCATGCCATCTTGGCACGGGGAGGGACGTGTGCAGGCGGAATGGACTCCTCATCTGTCTG
 TGCTGTCTGTCATCGTGGGCTGCCTCCTCGGCTTCTTCTTGAGGACCCGGCGCCTCTCACCACAGGAAAT
 TAGTTACTTCCAGTTCCTGGAGAGCTCCTGATGAGGATGCTGAAGATGATGATCCTGCCACTGGTGGTC
 TCCAGCTTGATGTCGGACTTGCCTCCCTGGATGCCAAGACCTCTAGCCGCTGGGCGTCTCACCGTGG
 CGTACTACCTGTGGACCACCTTCATGGCTGTGCATCGTGGGCATCTTCATGGTCTCCATCATCCACCAGG
 CAGCGCGGCCAGAAGGAGACCACGGAGCAGAGTGGGAAGCCATCATGAGCTCAGCCGATGCCCTGTTG
 GACCTCATCCGGAACATGTTCCAGCCAACCTAGTAGAAGCCACATTCAAACAGTACCGCACCAAGACCA
 CCCCAGTTGTCAAGTCCCCAAGGTGGCACCAGAGGAGGCCCTCCTCGGCGGATCCTCATCTACGGGGT
 CCAGGAGGAGAATGGCTCCCATGTGCAGAACTTCGCCCTGGACCTGACCCCGCCGCCGAGGTCGTTTAC
 AAGTCAGAGCCGGGACCCAGCGATGGCATGAATGTGCTGGGCATCGTCTTCTTCTGCCACCATGGGCA
 TCATGCTGGGCCGATGGGTGACAGCGGGGCCCCCTGGTCAGCTTCTGCCAGTGCCCAATGAGTCGGT
 CATGAAGATCGTGGCGGTGGCTGTGTGGTATTTCCCTTCGGCATTGTGTTCTCATTGCGGGTAAGATC
 CTGGAGATGGACGACCCAGGGCCGTCGGCAAGAAGCTGGGCTTCTACTCAGTACCGTGGTGTGCGGGC
 TGGTGTCCACGGGCTCTTTATCCTGCCCTGTCTACTTCTTCCATCACCAGAAGAATCCCATCGTCTT
 CATCCGCGGCATCCTGCAGGCTGTGTCATCGCGCTGGCCACCTCCTCCAGCTCAGCCACACTGCCATC
 ACCTTCAAGTGCCTGCTGGAGAACAACCACATCGACCGGCGCATCGCTCGCTTGTGCTGCCCGTGGT
 CCACCATCAACATGGACGGCACTGCGCTACGAGGCTGTGGCCGCCATCTTCATCGCCCAAGTCAACAA
 CTACGAGCTGGACTTTGGCCAGATCATACCATCAGTATCACAGCCACTGCAGCCAGCATTGGGGCAGCT
 GGCATCCCCAGGCCGCGCTCGTCACCATGGTCATCGTGTCTACCTCCGTGGGACTGCCACCGATGACA
 TCACCCTCATATTGCCGTTGACTGGGCTCTGGACCGTTTCCGCACCATGATTAACGTGCTGGTGATGC
 GCTGGCAGCGGGATCATGGCCATATATGTCGGAAGGATTTTGGCCGGGACACAGGCACCGAGAAACTG
 CTGCCCTGCGAGACCAAGCCAGTGAACCTCCAGGAGATCGTGGCAGCCAGCAGAATGGCTGTGTGAAGA
 GTGTAGCCGAGGCTCCGAGCTCACCTGGGCCACCTGCCCCACCACGTCCCGTTCAAGTGGAGCG
 GGATGAGGAGCTGCCGCTGCGAGTCTGAACCACTGCACCATCCAGATCAGCGAGCTGGAGACCAATGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204182 representing NM_006671
 Red=Cloning site Green=Tags(s)

MVPHAILARGRDVCRRNGLLILSVLSVIVGCLLGFLLRTRRLSPQEISYFQFPGELLMRMLKMMILPLVV
 SSLMSGLASLDAKTSSRLGVLTVAYYLWTFMAVIVGIFMVSIIHPGSAAQKETTEQSGKPI MSSADALL
 DLIRNMFANLVEATFKQYRTKTPVVKSPKVAPEEAPRRIL IYGVQEENGSHVQNFALDTPPEVVY
 KSEPGTSDGMNVLGIVFFSATMGIMLGRMGDSGAPLVFQCCLNESVMKIVAVAVWYFPFGIVFLIAGKI
 LEMDDPRAVGKLLGFYSVTVVCGLVLHGLFILPLL YFFITKKNPIV FIRGILQALLIALATSSSSATLPI
 TFKLLENNHIDRRIARFVLPVGATINMDGTALYEAVAAIFIAQVNNYELDFGQIITISITATAASIGAA
 GIPQAGLVTMVI VLT SVGLPTDDITLIIAVDWALDRFRMTINVLGDALAAGIMAHICRKDFARDTGTEKL
 LPECETKPVSLQEIVAAQQNGCVKSVAEASELTLGPTCPHHVPVQVERDEELPAASLNHCTIQISELETNV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006671

ORF Size: 1680 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:

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_006671.3](#), [NP_006662.2](#)

RefSeq Size: 2654 bp

RefSeq ORF: 1683 bp

Locus ID: 6512

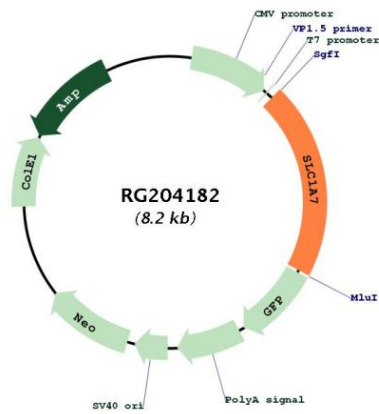
UniProt ID: [O00341](#)

Cytogenetics: 1p32.3

Protein Families: Transmembrane

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]

Product images:



Circular map for RG204182