

Product datasheet for **RG228977**

SLC6A15 (NM_001146335) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A15 (NM_001146335) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC6A15
Synonyms:	hv7-3; NTT73; SBAT1; V7-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG228977 representing NM_001146335
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAAAAATAGCAAGTGGTAAAAAGAGAATTAGATGATGATGTTACTGAGTCTGTCAAAGACCTTC
TTTCCAATGAAGACGCAGCTGATGATGCTTTTAAGACAAGTGAAC TAATTGTTGATGGCCAGGAAGAGAA
AGATACAGATGTTGAAGAAGGATCTGAAGTCGAAGATGAAAGACCAGCTTGAACAGTAAACTACAATAC
ATCCTGGCCCAAGTTGGATTTTCTGTAGGTTTAGGAAATGTGTGGCGATTCCATACCTATGTCAGAAGA
ATGGGGCGGTGCATATCTTTACCATATTTAATACTACTTATGGTAATAGGTATCCCTTTTTTTTCTT
GGAAGTCTCTGTGGTCAAAGAATTCGGCGAGGCAGCATTGGTGTATGGAATTACATAAGCCCTAAACTG
GGCGGATTGGATTTGCAAGTTGTGTAGTGTGCTATTTTGTAGTCTCTACTACAACGTCATCATTGGCT
GGAGTTTGTATTTTCTCAGTCTTTTACGCAACCCCTGCCTGGGATCAGTGTCTTTGGTGAAAAA
TGCTTCACACACTTTTGTAGAACCAGAATGTGAACAAAGTCTGCCACCACCTATTACTGGTACAGGGAA
GCACTGAATATTTCAAGTTCATTTCTGAAAGTGGGGCTTAAACTGGAAGATGACCATCTGCTTGTGG
CTGCCTGGGTCATGGTTTCTGGCTATGATCAAAGGCATTAGTCTTCTGGAAAAATCATATATTTTGG
TTCTCTGTTTCCATATGTGGTACTTATTTGCTTCTCATCAGAGCATTCCTTTTAAATGGTTCAATTGAT
GGCATTGCCACATGTTTACCCTAAGCTTGAATAATGCTGGAGCCCAAGGCTGGAGAGAAGCTGCTA
CTCAAGTGTCTTTGCCTTAGGCTGGGATTTGGTGGTGTCTTTCATCAATTTTTTCACTTCTGTCTGGCAACATTG
GTGGTGTTCAGTCTGGGCTTCAAAGCAAATGTCATAAATGAGAAATGCATTACACAAAATTCAGAGA
CGATCATGAAATTTTTGAAAATGGGGAACATTAGTCAGGATATTATCCCATCATATCAACCTTTCAAC
TGTTACTGCAGAAGATTATCATTTAGTTTATGACATCATTCAAAAAGTGAAGAAGAAGAGTTTCTGCT
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TTGCCTTTACAGAAGCGATGACACATTTTCTGCATCTCCCTTCTGGTCAGTGTATTTTTCTCATGCT
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CTCCCAGTCCCTGTAGTTTTTATTGTTCTGCTCAACCTTATAGATGATAGTTCTGGTAAATTTAGCAT
CTGTGACCTATAAGAGAGGAAGGGTCTGAAAGAGCCTGTGAACTTAGAGGGCGATGATACAAGCCTCAT
TCACGGAAAAATACCGAGCGAGATGCCATCTCAAATTTTGGTAAAAATTTTATCGAAAACAGAGTGGA
TCCCAACTCTGGATACTGCTCCAATGGACGGTATGGAATAGGGTACTTGATGGCAGATATTATGCCAG
ATATGCCAGAATCTGATTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228977 representing NM_001146335
 Red=Cloning site Green=Tags(s)

MPKNSKVVKRELDVVESVKDLLSNEDAADDAFKTSELIVDGGQEEKDTEEGSEVEDERPAWNSKLQY
 ILAQVGFVSVGLGNVWRFYPLCQKNGGGAYLLPYLILLMVIIGIPLFFLELSVGQRIRRGSIGVWNYISP
 GGIGFASCVVVCFVALYNNVIGWSLFYFSQSFQQPLPWCPLVKNASHTFVEPECEQSSATTYYWYRE
 ALNISSSISESGGLNWKMTICLLAAWVMVCLAMIKGIQSSGKIIYFSSLFPYVVLICFLIRAFLLNGSID
 GIRHMFTPKLEIMLEPKVWREAATQVFFALGLGFGGVIAFSSYNKRDNCHDAVLVSVFINFFTSVLATL
 VVFAVLGFKANVINEKCITQNSSETIMKFLKMGNISQDIIPHHINLSTVTAEDYHLVYDIIQKVKEEFFPA
 LHLNSCKIEEELNKAVQGTGLAFIAFTEAMTHFPASPFWVMFFLMLVNLGLGSMFGTIEGIVTPIVDTF
 KVRKEILTVICLLAFICIGLIFVQRSGNYFVTFDDYSATLPLLVVILENIAVCFVYIDKFMEDLKDM
 LGFAPSRYYYYMWKYISPLMLLSLLIASVVMGLSPPGYNAWIEDKASEEFLSYPTWGLVVCVSLVVF
 LPVPPVIVRRFNLIDSSGNLASVTKRGRVLKEPVNLEGGDTSLIHGKIPSEMPSPNFGKNIYRQKSG
 SPTLDTAPNGRYGIGYLMADIMPDPESDL

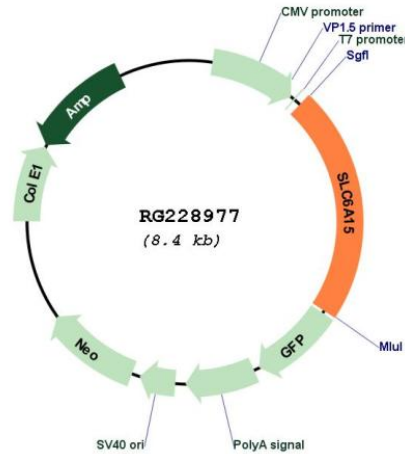
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001146335

ORF Size: 2193 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_001146335.2](#), [NP_001139807.1](#)

RefSeq Size: 4364 bp

RefSeq ORF: 1872 bp

Locus ID: 55117

UniProt ID: [Q9H2J7](#)

Cytogenetics: 12q21.31

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a member of the solute carrier family 6 protein family which transports neutral amino acids. The encoded protein is thought to play a role in neuronal amino acid transport (PMID: 16185194) and may be associated with major depression (PMID: 21521612). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]