

Product datasheet for **MG210333**

Slc6a15 (NM_175328) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a15 (NM_175328) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc6a15
Synonyms:	AA536730; AI326450; AI326451; 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:

>MG210333 representing NM_175328
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTAAGAATAGCAAAGTGGTAAAGAGAGATTTGGATGATGATGTCATTGAATCTGTCAAAGACCTCC
 TGTCACGAAGACTCAGTGGAAGAGGTTTCTAAGAAGAGTGAAC TAATTGTCGATGTT CAGGAAGAGAA
 AGATACAGATGCTGAAGATGGATCTGAAGCTGATGATGAAAGGCCAGCCTGGAACAGTAAGCTGCAATAC
 ATTCTGGCCCAAGTTGGATTTTCTGTAGGTCTGGGGAATGTGTGGCGGTTCCCATACCTCTGCCAAAAGA
 ATGGTGGTGGTGCATATCTTTGCGTATTTAATACTACTTCTGGTGATAGGAATCCACTCTTTTTCT
 GGAAC TTTCTGTGGTCAAAGAATTCGAAGAGGCAGCATTGGGGTTTGAATTACATAAGCCCTAAATTG
 GGTGGGATTGGCTTCGAAGCTGTGTAGTGTGCTATTTGTGGCTCTCTACTACAATGTCATCATTGGCT
 GGACATTATTTACTTTCTCAGTCTTTTCAACAACCTCTTCTTGGGATCAATGCCCCCTGGTGAAAAA
 CGCATCTCATACTTATGTTGAGCCAGAATGTGAACAAAGTCTGCCACCACCTATTACTGGTACCGGGAA
 GCACTGGATATCACCAGCTCCATCTCTGACAGTGGAGGCTTAAACTGGAAGATGACGGTCTGCCTTCTGG
 TTGCCTGGGTCATGGTTTGTCTGGCCATGATCAAAGGCATT CAGTCTCTGGAAAAATCATGATTTTCAG
 TTCTCTGTTCCCTACGTGGTCCTTATATGTTTCCCTAATAAGATCTCTCCTTTTAAATGGTTCAATTGAT
 GGCATCCGACACATGTTCACTCCTAAGCTGGAATGATGTTGGAGCCCAAGGTTTGGAGAGAGGCAGCAA
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 CAACAAC TGCCACTTCGATGCTGCCTAGTGTCTTTCACTCAACTTTTCACTTCAGTTCTGGCAACTG
 GTGGTGTTCAGTTCTGGGTTCAAAGCCAATATCGTAAATGAAAAATGCATTTACAAAACTCCGAGA
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 CATCTTGGAGAATATTGCCGTGAGCTTTGTTTATGGCATAGATAAGTTTATAGAAGACCTCACAGACATG
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 TGCTAATAGCTAGCATTGTGAATATGGGATTAAGTCTCCCGGATATAATGCATGGATCAAGGAGAAGGC
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 CTTCTGTCCCAGTGGTGTTCATCATTCTGTCGCTGCAACCTCATAGATGATAGTTCTGGTAACTGGCCT
 CCGTGACCTATAAGAGAGGAAGAGTCTGAAGGAACCTGTGAACTTGAAGGAGATGACGCAAGCCTCAT
 TCATGGAAGATACCGAGTGAATGTCTCTCAAATTTTGGTAAAAATTTTATCGAAAACAAAGTGGT
 TCCCAACACTGGATACTGCTCCAATGGACGCTATGGGATTTGGTATTTGATGGCAGACATGCCAGATA
 TGCCAGAGTCTGACTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210333 representing NM_175328
Red=Cloning site Green=Tags(s)

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MPKNSKVVKRDLDDVIESVKDLLSNEDSVEEVSKKSELIVDVQEEKDTDAEDGSEADDERPAWNSKLQY
ILAQVGFVSVGLGNVWRFPYLCQKNGGGAYLLPYLILLLVIGIPLFFLELSVGQRIRRGSIQVWNYISPKL
GGIGFASCVVVCFVALYNNVIGWTLFYFSQSFQQPLPWDQCPLVKNASHTYVEPECEQSSATTYYWYRE
ALDITSSISDSGGLNWKMTVCLLVAVVMVCLAMIKGIQSSGKIMYFSSLFPYVVLICFLIRSLLLNGSID
GIRHMFTPKLEMMLEPKVWREAATQVFFALGLGFGGVI AFSSYNKRDNCHFDVAVLVSFINFFTSVLATL
VYFAVLGFKANIVNEKCI SQNSEMILKLLKMGNISWDVIPHHINLSAVTVEDYRLVYDIIQKVEEEFAV
LHLNACQIEDELNKAVQGTGLAFIAFTEAMTHFPASPFWVMFFMLINLGLGSMFGTIEGIITPIVDTF
KVRKEILTVICLLAFICLIFVQRSGNYFVTFDDYSATLPLLIVVILENIAVSFVYIGIDKFIEDLDM
LGFAPSKYYYYMWKYISPLMLLLLLIASIVNMGLSPPGYNAWIKEKASEEFLSYPMWGMVVCFLMVLAI
LPVPPVFIIRRCNLIDSSGNLASVTKRGRVLKEPVNLEGDDASLIHGKIPSEMSSPNFGKNIYRKQSG
SPTLDTAPNGRYGIGYLMADMPDMPESDL
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175328

ORF Size: 2187 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_175328.3](#)

RefSeq Size: 3643 bp

RefSeq ORF: 2190 bp

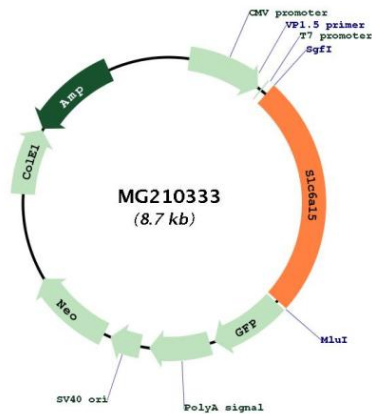
Locus ID: 103098

UniProt ID: [Q8BG16](#)

Cytogenetics: 10 D1

Gene Summary: Functions as a sodium-dependent neutral amino acid transporter. Exhibits preference for methionine and for the branched-chain amino acids, particularly leucine, valine and isoleucine. Mediates the saturable, pH-sensitive and electrogenic cotransport of proline and sodium ions with a stoichiometry of 1:1. May have a role as transporter for neurotransmitter precursors into neurons. In contrast to other members of the neurotransmitter transporter family, does not appear to be chloride-dependent (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210333