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Product datasheet for MR231006

Slc6a15 (NM_001252330) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a15 (NM_001252330) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc6a15
Synonyms:	AA536730; AI326450; AI326451; v7-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR231006 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTAAGAATAGCAAAGTGGTAAAGAGAGATTTGGATGATGATGTCATTGAATCTGTCAAAGACCTCC
TGTCCAACGAAGACTCAGTGGAAGAGGTTTCTAAGAAGAGTGAACTAATTGTCGATGTTCAGGAAGAGAA
AGATACAGATGCTGAAGATGGATCTGAAGCTGATGATGAAAGGCCAGCCTGGAACAGTAAGCTGCAATAC
ATTCTGGCCCAAGTTGGATTTTCTGTAGGTCTGGGGAATGTGTGGCGGTTCCCATACCTCTGCCAAAAGA
ATGGTGGTGGTGCATATCTTTTGCCGTATTTAATACTACTTCTGGTGATAGGAATTCCACTCTTTTTCCT
GGAACTTTCTGTGGGTCAAAGAATTCGAAGAGGCAGCATTGGGGTTTGGAATTACATAAGCCCTAAATTG
GGTGGGATTGGCTTCGCAAGCTGTGTAGTGTGCTATTTTGTGGCTCTCTACTACAATGTCATCATTGGCT
GGACATTATTTTACTTTTCTCAGTCTTTTCAACAACCTCTTCCTTGGGATCAATGCCCCCTGGTGAAAAA
CGCATCTCATACTTATGTTGAGCCAGAATGTGAACAAAGTTCTGCCACCACCTATTACTGGTACCGGGAA
GCACTGGATATCACCAGCTCCATCTCTGACAGTGGAGGCTTAAACTGGAAGATGACGGTCTGCCTTCTGG
TTGCCTGGGTCATGGTTTGTCTGGCCATGATCAAAGGCATTCAGTCCTCTGGAAAAATCATGTATTTCAG
TTCTCTGTTCCCCTACGTGGTCCTTATATGTTTCCTAATAAGATCTCTCCTTTTAAATGGTTCAATTGAT
GGCATCCGACACATGTTCACTCCTAAGCTGGAAATGATGTTGGAGCCCAAGGTTTGGAGAGAGGCAGCAA
CTCAGGTGTTCTTTGCATTGGGTTTGGGATTTGGTGGAGTCATCGCGTTTTCAAGTTATAACAAGAGAGA
CAACAACTGCCACTTCGATGCTGTCCTAGTGTCTTTCATCAACTTTTTCACTTCAGTTCTGGCAACACTG
GTGGTGTTTGCAGTTCTGGGGTTCAAAGCCAATATCGTAAATGAAAAATGCATTTCACAAAACTCCGAGA
TGATCTTGAAACTTTTGAAAATGGGAAACATTAGTTGGGATGTCATTCCCCATCACATCAACCTCTCAGC
TGTCACTGTGGAAGATTATCGTTTAGTTTACGACATCATTCAAAAAGTGAAGGAGGAGGAGTTTGCTGTT
CTTCATCTCAACGCCTGTCAAATTGAGGATGAGCTAAATAAAGCTGTGCAGGGCACTGGCTTGGCTTTCA
TTGCCTTTACAGAGGCCATGACACATTTCCCTGCATCTCCTTTCTGGTCAGTGATGTTTTTCCTCATGTT
GATAAATCTCGGCCTCGGCAGCATGTTTGGAACAATTGAAGGGATCATCACTCCTATTGTGGATACCTTC
AAAGTGAGGAAGGAAATACTCACTGTTATCTGTTGCCTCCTGGCATTTTGTATTGGCTTGATATTCGTGC
AGCGCTCTGGAAATTACTTCGTGACAATGTTTGACGATTATTCTGCTACATTGCCTCTGCTAATTGTGGT
CATCTTGGAGAATATTGCCGTGAGCTTTGTTTATGGCATAGATAAGTTTATAGAAGACCTCACAGACATG
TTAGGATTTGCTCCAAGCAAATATTACTATTATATGTGGAAATACATTTCTCCTCTAATGCTACTAACGT
TGCTAATAGCTAGCATTGTGAATATGGGATTAAGTCCTCCCGGATATAATGCATGGATCAAGGAGAAGGC
ATCGGAAGAATTTCTGAGCTACCCGATGTGGGGGATGGTCGTCTGTTTCTCTCTGATGGTGCTGGCCATA
CTTCCTGTCCCAGTGGTGTTCATCATTCGTCGCTGCAACCTCATAGATGATAGTTCTGGTAACTTGGCCT
CCGTGACCTATAAGAGAGGAAGAGTCCTGAAGGAACCTGTGAACTTGGAAGGAGATGACGCAAGCCTCAT
TCATGGAAAGATACCGAGTGAAATGTCATCTCCAAATTTTGGTAAAAATATTTATCGAAAACAAAGTGGT
TCCCCAACACTGGATACTGCTCCCAATGGACGCTATGGGATTGGGTATTTGATGGCAGACATGCCAGATA
TGCCAGAGTCTGACTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

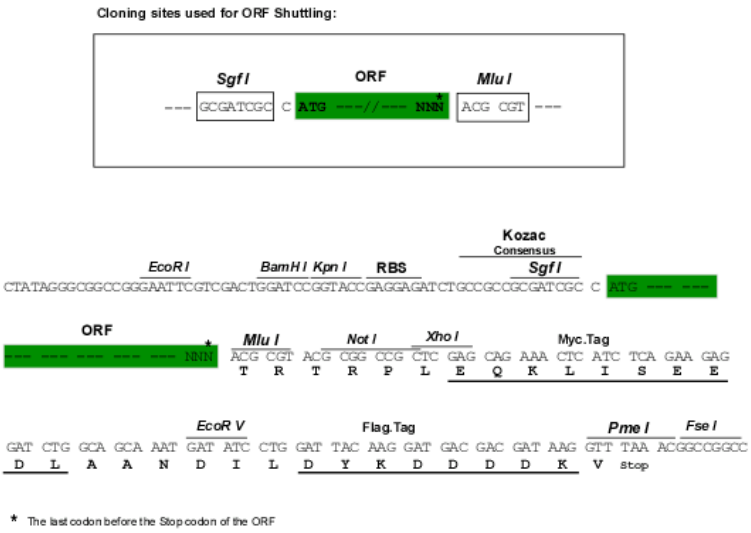
>MR231006 protein sequence
Red=Cloning site Green=Tags(s)

MPKNSKVVKRDLDDDVIESVKDLLSNEDSVEEVSKKSELIVDVQEEKDTDAEDGSEADDERPAWNSKLQY
ILAQVGFSVGLGNVWRFPYLCQKNGGGAYLLPYLILLLVIGIPLFFLELSVGQRIRRGSIGVWNYISPKL
GGIGFASCVVCYFVALYYNVIIGWTLFYFSQSFQQPLPWDQCPLVKNASHTYVEPECEQSSATTYYWYRE
ALDITSSISDSGGLNWKMTVCLLVAWVMVCLAMIKGIQSSGKIMYFSSLFPYVVLICFLIRSLLLNGSID
GIRHMFTPKLEMMLEPKVWREAATQVFFALGLGFGGVIAFSSYNKRDNNCHFDAVLVSFINFFTSVLATL
VVFAVLGFKANIVNEKCISQNSEMILKLLKMGNISWDVIPHHINLSAVTVEDYRLVYDIIQKVKEEEFAV
LHLNACQIEDELNKAVQGTGLAFIAFTEAMTHFPASPFWSVMFFLMLINLGLGSMFGTIEGIITPIVDTF
KVRKEILTVICCLLAFCIGLIFVQRSGNYFVTMFDDYSATLPLLIVVILENIAVSFVYGIDKFIEDLTDM
LGFAPSKYYYYMWKYISPLMLLTLLIASIVNMGLSPPGYNAWIKEKASEEFLSYPMWGMVVCFSLMVLAI
LPVPVVFIIRRCNLIDDSSGNLASVTYKRGRVLKEPVNLEGDDASLIHGKIPSEMSSPNFGKNIYRKQSG
SPTLDTAPNGRYGIGYLMADMPDMPESDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001252330

ORF Size: 2190 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_001252330.1, NP_001239259.1

RefSeq Size: 3563 bp

RefSeq ORF: 2190 bp

Locus ID: 103098

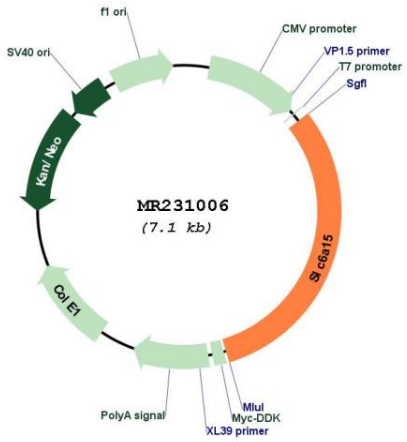
UniProt ID: Q8BG16

Cytogenetics: 10 D1

MW: 81.8 kDa

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 MR231006