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Product datasheet for RC209725

SLC6A15 (NM_182767) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A15 (NM_182767) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC6A15
Synonyms:	hv7-3; NTT73; SBAT1; V7-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC209725 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCAAAAATAGCAAGGTGGTAAAAAGAGAATTAGATGATGATGTTACTGAGTCTGTCAAAGACCTTC
TTTCCAATGAAGACGCAGCTGATGATGCTTTTAAGACAAGTGAACTAATTGTTGATGGCCAGGAAGAGAA
AGATACAGATGTTGAAGAAGGATCTGAAGTCGAAGATGAAAGACCAGCTTGGAACAGTAAACTACAATAC
ATCCTGGCCCAAGTTGGATTTTCTGTAGGTTTAGGAAATGTGTGGCGATTTCCATACCTATGTCAGAAGA
ATGGGGGCGGTGCATATCTTTTACCATATTTAATACTACTTATGGTAATAGGTATTCCCCTTTTTTTCTT
GGAACTCTCTGTGGGTCAAAGAATTCGGCGAGGCAGCATTGGTGTATGGAATTACATAAGCCCTAAACTG
GGCGGGATTGGATTTGCAAGTTGTGTAGTGTGCTATTTTGTAGCTCTCTACTACAACGTCATCATTGGCT
GGAGTTTGTTTTATTTTTCTCAGTCTTTTCAGCAACCCCTGCCTTGGGATCAGTGTCCTTTGGTGAAAAA
TGCTTCACACACTTTTGTAGAACCAGAATGTGAACAAAGTTCTGCCACCACCTATTACTGGTACAGGGAA
GCACTGAATATTTCAAGTTCCATTTCTGAAAGTGGGGGCTTAAACTGGAAGATGACCATCTGCTTGTTGG
CTGCCTGGGTCATGGTTTGCTTGGCTATGATCAAAGGCATTCAGTCTTCTGGAAAAATCATATATTTTAG
TTCTCTGTTTCCATATGTGGTACTTATTTGCTTCCTCATCAGAGCATTCCTTTTAAATGGTTCAATTGAT
GGCATTCGCCACATGTTTACCCCTAAGCTTGAAATAATGCTGGAGCCCAAGGTCTGGAGAGAAGCTGCTA
CTCAAGTGTTCTTTGCCTTAGGTCTGGGATTTGGTGGTGTCATTGCCTTTTCAAGCTACAACAAGAGAGA
CAACAACTGCCACTTTGATGCTGTCCTGGTGTCCTTCATCAATTTTTTCACTTCTGTCCTGGCAACATTG
GTGGTGTTTGCAGTTCTGGGCTTCAAAGCAAATGTCATAAATGAGAAATGCATTACACAAAATTCAGAGA
CGATCATGAAATTTTTGAAAATGGGGAACATTAGTCAGGATATTATTCCCCATCATATCAACCTTTCAAC
TGTTACTGCAGAAGATTATCATTTAGTTTATGACATCATTCAAAAAGTGAAAGAAGAAGAGTTTCCTGCT
CTTCATCTCAATTCCTGTAAAATTGAAGAAGAGCTAAATAAAGCTGTTCAGGGGACCGGCTTAGCTTTTA
TTGCCTTTACAGAAGCGATGACACATTTTCCTGCATCTCCCTTCTGGTCAGTGATGTTTTTCCTCATGCT
GGTCAATCTAGGCCTTGGCAGTATGTTTGGAACCATTGAAGGGATTGTCACGCCTATTGTGGACACTTTC
AAAGTGAGGAAAGAAATTCTTACTGTTATCTGTTGTCTTCTGGCATTTTGTATTGGCCTGATATTTGTGC
AACGCTCTGGAAATTACTTTGTTACAATGTTTGATGATTATTCTGCTACACTGCCTCTGCTAATTGTAGT
CATTTTGGAGAATATTGCTGTATGCTTTGTTTATGGCATAGATAAGTTTATGGAAGACCTAAAAGATATG
CTGGGCTTTGCTCCCAGCAGATATTACTACTATATGTGGAAATATATTTCTCCTCTAATGCTATTATCAT
TGCTAATAGCTAGTGTTGTGAATATGGGATTAAGTCCTCCTGGCTATAACGCATGGATTGAAGATAAGGC
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CTCCCAGTCCCTGTAGTTTTCATTGTTCGTCGCTTCAACCTTATAGATGATAGTTCTGGTAATTTAGCAT
CTGTGACCTATAAGAGAGGAAGGGTCCTGAAAGAGCCTGTGAACTTAGAGGGCGATGATACAAGCCTCAT
TCACGGAAAAATACCGAGCGAGATGCCATCTCCAAATTTTGGTAAAAATATTTATCGAAAACAGAGTGGA
TCCCCAACTCTGGATACTGCTCCCAATGGACGGTATGGAATAGGGTACTTGATGGCAGATATTATGCCAG
ATATGCCAGAATCTGATTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC209725 protein sequence
Red=Cloning site Green=Tags(s)

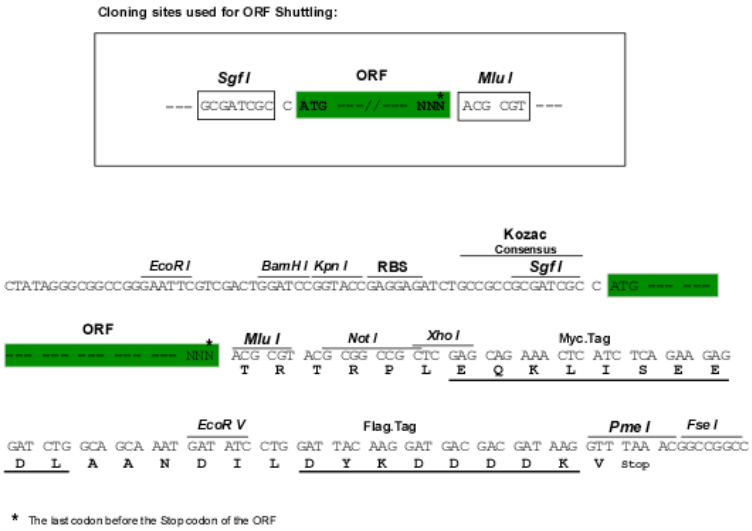
MPKNSKVVKRELDDDVTESVKDLLSNEDAADDAFKTSELIVDGQEEKDTDVEEGSEVEDERPAWNSKLQY
ILAQVGFSVGLGNVWRFPYLCQKNGGGAYLLPYLILLMVIGIPLFFLELSVGQRIRRGSIGVWNYISPKL
GGIGFASCVVCYFVALYYNVIIGWSLFYFSQSFQQPLPWDQCPLVKNASHTFVEPECEQSSATTYYWYRE
ALNISSSISESGGLNWKMTICLLAAWVMVCLAMIKGIQSSGKIIYFSSLFPYVVLICFLIRAFLLNGSID
GIRHMFTPKLEIMLEPKVWREAATQVFFALGLGFGGVIAFSSYNKRDNNCHFDAVLVSFINFFTSVLATL
VVFAVLGFKANVINEKCITQNSETIMKFLKMGNISQDIIPHHINLSTVTAEDYHLVYDIIQKVKEEEFPA
LHLNSCKIEEELNKAVQGTGLAFIAFTEAMTHFPASPFWSVMFFLMLVNLGLGSMFGTIEGIVTPIVDTF
KVRKEILTVICCLLAFCIGLIFVQRSGNYFVTMFDDYSATLPLLIVVILENIAVCFVYGIDKFMEDLKDM
LGFAPSRYYYYMWKYISPLMLLSLLIASVVNMGLSPPGYNAWIEDKASEEFLSYPTWGLVVCVSLVVFAI
LPVPVVFIVRRFNLIDDSSGNLASVTYKRGRVLKEPVNLEGDDTSLIHGKIPSEMPSPNFGKNIYRKQSG
SPTLDTAPNGRYGIGYLMADIMPDMPESDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6545_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182767

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.

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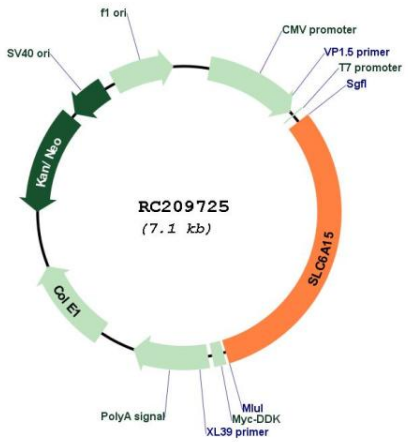
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile 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_182767.6
RefSeq Size:	4841 bp
RefSeq ORF:	2193 bp
Locus ID:	55117
UniProt ID:	Q9H2J7
Cytogenetics:	12q21.31
Protein Families:	Druggable Genome, Transmembrane
MW:	81.8 kDa
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]

Product images:



Circular map for RC209725

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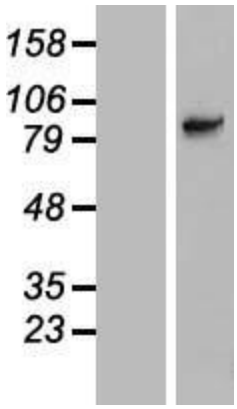

Western blot validation of overexpression lysate (Cat# [LY405194]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209725 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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