

Product datasheet for **RC205055**

SLC7A9 (NM_014270) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC7A9 (NM_014270) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC7A9
Synonyms:	BAT1; CSNU3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205055 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGATACTGGCCTGAGAAAGCGGAGAGAGGATGAGAAGTCGATCCAGAGCCAAGAGCCTAAGACCA
 CCAGTCTCCAAAAGGAGCTGGGCCTCATCAGTGGCATCTCCATCATCGTGGGCACCATCATTGGCTCTGG
 GATCTTCGTTTCCCCAAGTCTGTGCTCAGCAACACGGAAGCTGTGGGGCCCTGCCTCATCATATGGGCG
 GCTTGGGGGTCCTCGCGACGCTGGGTGCCCTGTGCTTTCGGGAGCTTGGCACAATGATACCAAGTCAG
 GGGGAGAGTATCCCTACCTGATGGAGGCCTACGGGCCCATCCCCGCCTACCTCTTCTCTGGGCCAGCCT
 GATCGTCATTAAGCCACGTCTTCGCCATCATCTGCCTCAGCTTCTCCGAGTATGTGTGTGCGCCCTTC
 TATGTGGGCTGCAAGCCTCCTCAAATCGTTGTGAAATGCCTGGCCGCCGCCCATCTTGTTTCATCTCGA
 CAGTGAACCTCACTGAGCGTGGGCTGGGAAGCTACGTCCAGAACATCTTACCAGCGGCCAAGCTGGTGAT
 CGTGGCCATCATCATCAGCGGGCTGGTGCTCCTGGCCCAAGGAAACAAAGAATTTTGATAATTCT
 TTCGAGGGCGCCAGCTGTCTGTGGGAGCCATCAGCCTGGCGTTTACAATGGACTCTGGGCCTATGATG
 GATGGAATCAACTCAATTACATCACAGAAGAACTAGAAACCCTTACAGAACCCTGCCTTTGGCCATTAT
 CATCGGGATCCCCTGGTGACGGCGTGCTACATCCTCATGAACGTGTCTACTTCACCGTGATGACTGCC
 ACCGAACCTCTGCAGTCCAGCGGTGGCTGTGACATTTGGTGACCGTGTCTCTATCCTGCTTCTTGGA
 TCGTTCCACTTTTGTGGCATTTCACCATCGGTGCTGCTAACGGGACCTGCTTACAGCGGGCAGACT
 CATTTACGTGGCGGGCCGGGAGGGTCACATGCTCAAAGTGCTTTCTTACATCAGCGTCAGGCGCCTCACT
 CCAGCCCCCGCCATCATCTTTATGGTATCATAGCAACGATTTATATCATCCCTGGTGACATAAACTCGT
 TAGTCAATTATTCAGCTTTGCCGATGGCTGTTTATGGCCTGACGATTCTAGGACTCATCGTGATGAG
 ATTTACAAGGAAAGAGCTGGAAAGGCTATCAAGGTGCCGTAGTCATTCCCGTCTTGATGACACTCATC
 TCTGTGTTTTTGGTCTGGCTCCAATCATCAGCAAGCCACCTGGGAGTACCTCTACTGTGTGCTGTTTA
 TATTAAGCGGCCTTTATTTTACTTCTGTTTGTCCACTACAAGTTTGGATGGGCTCAGAAAATCTCAAA
 GCCGATTACCATGCACCTTCAGATGCTAATGGAAGTGGTCCCACCGGAGGAAGACCCTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205055 protein sequence
 Red=Cloning site Green=Tags(s)

MGDTGLRKRREDEKSIQSQEPKTTSLQKELGLISGISIIIVGTIIGSGIFVSPKSVLSNTEAVGPCLIWA
 ACGVLATLGALCFELGTMITKSGGEYPYLMEAYGPIPAYLFSWASLIVIKPFSFAIICLSFSEYVCAPF
 YVGCKPPQIVVKCLAAAAILFISTVNSLSVRLGSYVQNIFTAAKLIVIVAIISGLVLLAQGNKTNFDNS
 FEGAQLSVGAISLAFYNGLWAYDGNQNLNYITEELRNPNPLAIIIGIPLVTACYILMNVSYFTVMTA
 TELLQSQAVAVTFGDRVLYPASWIVPLFVAFSTIGAANGTCFTAGRLIYVAGREGHMLKVLSYISVRRLT
 PAPAIIFYGIIATIIYIIPGDINSLVNYFSFAAWLFYGLTILGLIVMRFRKELERPIKVPVIVPLMTLI
 SVFLVLAPIISKPTWEYLYCVLFILSGLLFYFLFVHYKFGWAQKISKIPITMHLQMLMEVVPPEEDPE

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6439_h11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_014270

ORF Size: 1461 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014270.5](#)

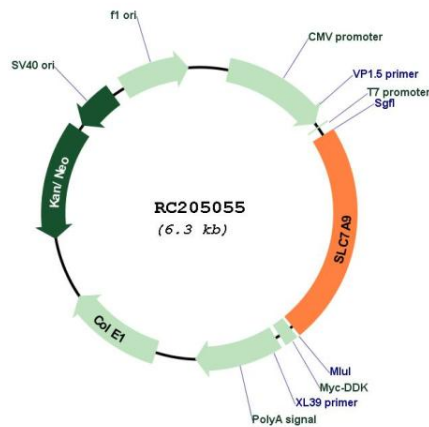
RefSeq Size: 1789 bp

RefSeq ORF: 1464 bp

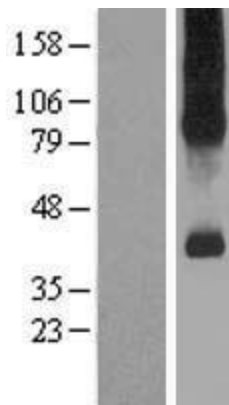
Locus ID: 11136

UniProt ID:	P82251
Cytogenetics:	19q13.11
Protein Families:	Druggable Genome, Transmembrane
MW:	53.5 kDa
Gene Summary:	This gene encodes a protein that belongs to a family of light subunits of amino acid transporters. This protein plays a role in the high-affinity and sodium-independent transport of cystine and neutral and dibasic amino acids, and appears to function in the reabsorption of cystine in the kidney tubule. Mutations in this gene cause non-type I cystinuria, a disease that leads to cystine stones in the urinary system due to impaired transport of cystine and dibasic amino acids. Alternate transcript variants, which encode the same protein, have been found for this gene. [provided by RefSeq, Jul 2011]

Product images:



Circular map for RC205055



Western blot validation of overexpression lysate (Cat# [LY426676]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225834] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).