

## Product datasheet for **RC231310**

### SLC13A3 (NM\_001193339) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC13A3 (NM_001193339) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC13A3
Synonyms:	ARLIAK; NADC3; SDCT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC231310 representing NM\_001193339  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCGCTGGCAGCAGCGGCCAAGAAGGTGTGGAGCGCGCGCGCTGCTGGTGTCTGTTCACGC  
 CGCTCGCGCTGCTGCCGGTGGTCTTCGCCCTCCGCCCAAGGAAGGCCGCTGCTTGTTCATCCTGCT  
 CATGGCGGTGACTGGTGACAGGAGCCCTGCCGCTCTCAGTGACGGCGCTGCTGCCATCGTCCTCTTC  
 CCCTTCATGGGCATCTTGCCCTCCAACAAGGTCTGCCCCAGTACTTCTCGACACCAACTCTCTTCC  
 TCAGTGGGCTGATCATGGCCAGCGCCATTGAGGAGTGGAACTGCACCGGCGAATCGCCCTCAAGATCCT  
 GATGCTTGTGGAGTCCAGCCGGCCAGGCTCATCTGGGGATGATGGTGACCACCTGTTCTTGCCATG  
 TGGCTGAGCAACACCGCCTCCACTGCCATGATGCTTCCATTGCCAATGCCATCTGAAAAGTCTCTTTG  
 GCCAGAAGGAGGTTCGAAAGGACCCAGCCAGGAGTGAAGAGAACACAGCAAAGACCACCTGGGGAG  
 ACAGAGGTTCCACTGGATCTGCCGGCTGACTCCAGGAAGGAGGATGAATATCGTCGGAACATCTGGAAGG  
 GCTTCTCATCTCCATCCCTACTCAGCCAGTATTGGGGGCACAGCCACACTCACGGGCACAGCCCTAA  
 CCTCATCTGCTTGGCCAGCTCAAGAGGCTGGCTCTGGATCTCCTTCTGTACGGGGGACTGAGCTTCAG  
 GGGCTGGAGGAAGAATAAATCTGAGATAAGAACCAATGCAGAAGATAGGGCTCGAGCTGTAATTCGGGAA  
 GAATACGAGAACCTGGGGCCATCAAGTTTGCCGAACAGGCTGTTTTTCATCCTTTTCTGCATGTTTGCCA  
 TCCTCCTCTTACCCGGGACCCGAAGTTCATCCCTGGCTGGGCCAGCCTCTTCAATCCTGGGTTCTTTT  
 TGATGCTGTACCCGGCGTGGCTATTGTCCACCATCTTGTCTTCTTCCCGTCCAAAGGCCCTCTCTCAAG  
 TGGTGGTTGACTTCAAAGTCCCAACACAGAGACAGAGCCCTTGCTGACCTGGAAGAAGGCCAGGAGA  
 CAGTGGCCTGGAACATCATCTTCTCTGGGAGGGGCTTCGCCATGGCCAAAGGCTGTGAGGAATCGGG  
 GCTGTCTGTATGGATTGGTGGGAGCTGCACCCCTGGAGAATGTGCCCCCGCCCTGGCTGTGCTGCTC  
 ATCACTGTGGTATCGCCTTCTTCACTGAGTTGCCAGCAACACGGCGACCATCATCTTCTGCCGG  
 TCCTGGCAGAGCTGGCCATCCGCTGAGAGTGCACCCCTGTATCTGATGATTCCGGGCACAGTCGGCTG  
 CTCCTTTGCCCTCATGCTCCCGTCTCAACGCCCCCAACTCCATCGCCTTCGCCTTGGACACTTGCTG  
 GTCAAAGACATGGTGGGACAGGCTCCTGATGAACCTGATGGGTGCTGCTGCTCAGTTGGCTATGA  
 ATACCTGGGCACAGACCATCTCCAGCTGGGCACCTTCCCGGACTGGGCTGATATGTACTIONGCAATGT  
 CACAGCATTGCCACCCACCTTGCCAATGACACATTCGGACCCTC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC231310 representing NM\_001193339  
 Red=Cloning site Green=Tags(s)

MAALAAAAKVWSARRLLVLLFTPLALLPVVFALPPKEGRCLFVILLMAVYWCTEALPLSVTALLPIVLF  
 PFMGILPSNKVCPQYFLDTNFLFLSGLIMASAIIEWNLHRRIALKILMLVGVQPARLILGMMVTTSFLSM  
 WLSNTASTAMMLPIANAILKSLFGQKEVRKDPSQSEENTAKTTLGRQRFHWICRLTPGRRMNIVGTSR  
 ASSSPSPQPVLAGQPHSRAQPLTSSCLASSRGWLWISFLYGGLSFRGWRKNKSEIRTNAEDRARAVIRE  
 EYQNLGPIKFAEQAVFILFCMFAILLFTRDPKFIPGWASLFNPGFLSDAVTGVAIVTILFFFPSQRPSLK  
 WWFDFKAPNTEPEPLL TWKKAQETVPWNIILLGGGFAMAKGCEESGLSVWIGGQLHPLENVPPALAVLL  
 ITVVIAFFTEFASNTATIIIFLPVLAELAIRLRVHPLYLMIPGTGCSFAFMLPVSTPPNSIAFASGHLL  
 VKDMVRTGLLMNLMGVLLLLSLAMNTWAQTFQLGTFPDWADMYSVNVTALPPTLANDTFRTL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8066\\_h02.zip](https://cdn.origene.com/chromatograms/mk8066_h02.zip)

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_001193339

ORF Size: 1656 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\\_001193339.2](#)

RefSeq ORF: 1659 bp

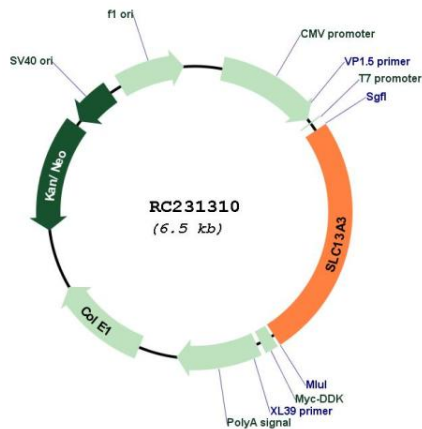
Locus ID: 64849

UniProt ID: [Q8WWT9](#)

Cytogenetics: 20q13.12

<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	61.5 kDa
<b>Gene Summary:</b>	Mammalian sodium-dicarboxylate cotransporters transport succinate and other Krebs cycle intermediates. They fall into 2 categories based on their substrate affinity: low affinity and high affinity. Both the low- and high-affinity transporters play an important role in the handling of citrate by the kidneys. The protein encoded by this gene represents the high-affinity form. Alternatively spliced transcript variants encoding different isoforms have been found for this gene, although the full-length nature of some of them have not been characterized yet. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC231310