

## Product datasheet for **RC205898**

### SLC13A3 (NM\_022829) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | SLC13A3 (NM_022829) 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:**

>RC205898 representing NM\_022829.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCGCGCTGGCAGCAGCGGCCAAGAAGGTGTGGAGCGCGCGCGCTGCTGGTGTCTGTTCACG
CCGCTCGCGTGTCTGCCGTGGTCTTCCGCTCCCGCCCAAGGAAGGCCGCTGCTGTTTGTATCCTG
CTCATGGCGGTACTGGTGCACGAGGCCCTGCCGCTCTCAGTGACGGCGCTGCTGCCATCGTCTG
TTCCCTTCATGGGCATCTTCCCTCCAACAAGGTCTGCCCCAGTACTTCTCGACACCAACTTCTC
TTCTCAGTGGGCTGATCATGGCCAGCGCCATTGAGGAGTGAACCTGCACCGGCGAATCGCCCTCAAG
ATCCTGATGCTTGTGGAGTCCAGCCGGCCAGGCTCATCTGGGGATGATGGTGACCACCTGTTCTTG
TCCATGTGGCTGAGCAACACCGCTCCACTGCCATGATGCTTCCATTGCCAATGCCATCTGAAAAGT
CTCTTTGGCCAGAAGGAGTTTCAAAGGACCCAGCCAGGAGAGTGAAGAGAACACAGCTGCTGTGCGG
AGAAACGGCTACACACTGTGCCACGGAGATGCAGTTTCTCGCCAGCACAGAAGCCAAAGACCACCT
GGGAGACAGAGTTCCACTGGATCTGCCGGCTGACTCCAGGAAGGAGGATGAATATCGTCGGAACATC
TGGAAGGGCTTCCTCATCTCCATCCCCTACTCAGCCAGTATTGGGGGCACAGCCACACTACGGGACA
GCCCTAACCTCATCCTGCTTGGCCAGCTCAAGAGTTTCTTCCGAGTGTGACGTGGTGAATTCGGC
TCCTGGTTCATTTTCGCTTCCCTTTATGCTGTTGTTCTGTTGGCAGGCTGGCTCTGGATCTCCTTC
CTGTACGGGGACTGAGCTTCAGGGGCTGGAGGAAGAATAAATCTGAGATAAGAACCAATGCAGAAGAT
AGGGCTCGAGCTGAATTCGGGAAGAATAACAGAACCTGGGGCCCATCAAGTTTGCCGAACAGGCTGT
TTCATCCTTTTCTGCATGTTGCCATCCTCCTTCCACCGGGACCCGAAGTTCGTCCTGGCTGGGCC
AGCCTCTCAATCCTGGGTTTCTTCTGATGCTGTACCAGGCGTGGCTATTGTACCATCTTGTCTTC
TTCCCGTCCCAAGGCCCTCTCAAGTGGTGGTTTACTTCAAAGCTCCCAACACAGAGACAGAGCC
TTGCTGACCTGGAAGAAGGCCCCAGGAGACAGTGCCTGGAACATCATCCTTCTCCTGGGAGGGGCTTC
GCCATGGCCAAAGGCTGTGAGGAATCGGGGCTGTCTGTATGGATTGGTGGCAGCTGCACCCCTGGAG
AATGTGCCCCCGCCCTGGCTGTGCTGCTCATCACTGTGGTATCGCCTTCTTCACTGAGTTGCCAGC
AACACGGCGACCATCATCTTCTGCCGGTCTGGCAGAGCTGGCCATCCGCTGAGAGTGCACCCC
CTGTATCTGATGATTCGGGCACAGTGGCTGCTCCTTTCCTTTCATGCTCCCGTCTCAACGCCCCC
AACTCCATCGCCTTCGCTCTGGACACTGTGGTCAAAGACATGGTGGCAGAGGCTCCTGATGAAC
CTGATGGGTGTCCTGCTGCTCAGTTTGGCTATGAATACCTGGGCACAGACCATCTCCAGCTGGGCACC
TTCCCGGACTGGGCTGATATGACTCGGTCAATGTCACAGCATTGCCACCCACCTTGCCCAATGACACA
TTTCGGACCCCTC
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

**Protein Sequence:**

>Peptide sequence encoded by RC205898  
 Blue=ORF Red=Cloning site Green=Tag(s)

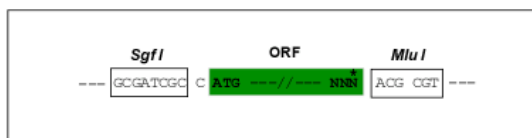
```
MAALAAAAKVWSARRLLVLLFTPLALLPVVFALPPKEGRCLFVILLMAVYWCTEALPLSVTALLPIVL
FPFMGILPSNKVCPQYFLDTNLFSLGLIMASAEWNLHRRIALKILMLVGVQPARLILGMMVTSFL
SMWLSNTASTAMMLPIANAILKSLFGQKEVRKDPSESEENTAAYRRNGLHTVPTMQLASTEAKDHP
GETEVPLDLPADSRKEDEYRRNIWKGFLISIPYSASIGGTATLTGTAPNLLGQLKSFPPQCDVNFV
SWFIFAFPLMLLFLLAGWLWISFLYGLSFRGWRKNKSEIRTNAEDRARAVIREEQNLGPIKFAEQAV
FILFCMFAILLFTRDPKFVPGWASLFNPGFLSDAVTGVAIVTILFFPSQRPSLKWVDFKAPNTEP
LLTWKKAQETVPWNIILLGGFAMAKGCEESGLSVWIGQLHPLENVPPALAVLLITVVIAFFTEFAS
NTATIIIFLPVLAELAIRLRVHPLYLMIPGTVGCSFAFMLPVSTPPNSIAFASGHLLVKDMVRTGLLMN
LMGVLLL SLAMNTWAQTFQLGTFPDWADMYSVNVNTALPPTLANDTFRTL
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

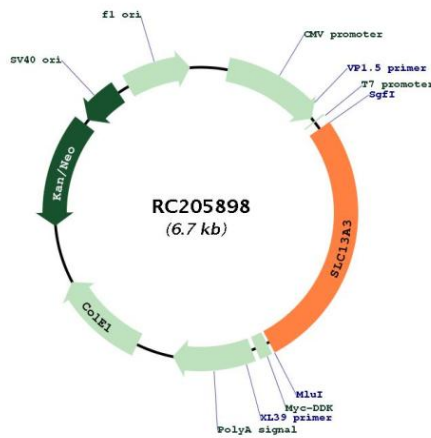


\* The last codon before the Stop codon of the ORF

|                        |   |
|------------------------|---|
| ACCN:                  | NM_022829   |
| ORF Size:              | 1806 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. <a href="#">More info</a>  |
| 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: | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| Note:                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.  |
| RefSeq Size:           | 4048 bp   |
| RefSeq ORF:            | 1809 bp   |
| Locus ID:              | 64849   |
| UniProt ID:            | <a href="#">Q8WWT9</a>  |

|                          |   |
|--------------------------|---|
| <b>Cytogenetics:</b>     | 20q13.12  |
| <b>Domains:</b>          | Na_sulph_symp   |
| <b>Protein Families:</b> | Druggable Genome, Transmembrane   |
| <b>MW:</b>               | 66.8 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 RC205898