

## Product datasheet for **SC301582**

### SLC13A3 (NM\_001011554) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC13A3 (NM_001011554) Human Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >SC301582 representing NM\_001011554.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCGGTGTACTGGTGACACGGAGGCCCTGCCGCTCTCAGTGACGGCGCTGCTGCCATCGTCTCTTC
CCCTTCATGGGCATCTTGCCCTCCAACAAGGCTGCCCCAGTACTTCTCGACACCAACTCCTCTTC
CTCAGTGGGCTGATCATGGCCAGCGCCATTGAGGAGTGGAACTGCACCGCGAATCGCCCTCAAGATC
CTGATGCTTGTGGAGTCCAGCCGGCCAGGCTCATCTGGGGATGATGGTGACCACCTCGTCTCTGTCC
ATGTGGCTGAGCAACACCGCCTCCACTGCCATGATGCTTCCCATTGCCAATGCCATCCTGAAAAGTCTC
TTTGGCCAGAAGGAGTTTCAAAGGACCCAGCCAGGAGAGTGAAGAGAACACAGCTGCTGTGCGGAGA
AACGGCTACACACTGTGCCACGGAGATGCAGTTTCTGCCAGCACAGAAGCCAAAGACCACCTGGG
GAGACAGAGGTTCCACTGGATCTGCCGGTACTCCAGGAAGGAGGATGAATATCGTCGGAACATCTGG
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CCTAACCTCATCTGCTTGGCCAGCTCAAGAGTTTCTTTCCGAGTGTGACGTGGTGAATTCGGCTCC
TGGTTCATTTTCGCCTTCCCTCTTATGCTGTTGTTCTGTTGGCAGGCTGGCTCTGGATCTCCTTCTCG
TACGGGGGACTGAGCTTACGGGGCTGGAGGAAGAATAAATCTGAGATAAGAACCAATGCAGAAGATAGG
GCTCGAGCTGTAATTCGGGAAGAATACCAGAACCTGGGGCCATCAAGTTTGCCGAACAGGCTGTTTTC
ATCCTTTTCTGCATGTTTGCCATCCTCCTTACCCGGGACCCGAAGTTCATCCCTGGCTGGGCCAGC
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CCGTCCCAAAGGCCCTCTCTCAAGTGGTGGTTTGACTTCAAAGCTCCCAACACAGAGACAGAGCCCTTG
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TATCTGATGATTCGGGCACAGTCGGCTGCTCCTTTGCCTTATGCTCCCGGTCTCAACGCCCCCAAC
TCCATCGCCTTCGCCTTGACACTTGCTGGTCAAAGACATGGTGGGACAGGCCCTGATGAACCTG
ATGGGTGCTGCTGCTCAGTTTGGCTATGAATACCTGGGCACAGACCATCTCCAGCTGGGCACCTTC
CCGGACTGGGCTGATATGACTCGGTCAATGTCACAGCATTGCCACCCACCTTGGCCAATGACACATT
CGGACCCCTGA
ACGGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001011554
- Insert Size:** 1668 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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).

<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<a href="#">NM_001011554.2</a>
<b>RefSeq Size:</b>	4084 bp
<b>RefSeq ORF:</b>	1668 bp
<b>Locus ID:</b>	64849
<b>UniProt ID:</b>	<a href="#">Q8WWT9</a>
<b>Cytogenetics:</b>	20q13.12
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	61.8 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>