

Product datasheet for **SC115113**

SLC25A13 (NM_014251) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A13 (NM_014251) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A13
Synonyms:	ARALAR2; CITRIN; CTLN2; NICCD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115113 sequence for NM_014251 edited (data generated by NextGen Sequencing)

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ATGGCGGCCGCCAAGGTGGCTTTAACCAAGAGAGCAGATCCAGCTGAGCTTAGAACAAATA
TTTTTGAAGTATGCAAGCATTGAGAAAAACGGTGAATTTTTTCATGTCCCCCAATGACTTT
GTCACCTGATACTTGAACATTTTTGGAGAAAAGCCAGCCTAATCCAAGACTGTGGAACCT
TTAAGTGGAGTGGTGGATCAGACCAAAGATGGATTAATATCTTTTCAAGAATTTGTTGCC
TTTGAATCTGTCTGTGTGCCCTGATGCTTTGTTTATGGTAGCCTTTCAGCTGTTTGAC
AAAGCTGGCAAAGGAGAAGTAACTTTTGAGGATGTTAAGCAAGTTTTTGGACAGACCACA
ATTCATCAACATATTCCATTTAACTGGGATTGAGAATTTGTGCAACTACATTTTGAAAA
GAAAGAAAAAGACACCTGACATATGCGGAATTTACTCAGTTTTTATTGGAATACAACCTG
GAGCACGCAAAGCAAGCCTTTGTGCAACGGGACAATGCTAGGACTGGGAGAGTCACAGCC
ATCGACTCCGAGACATCATGGTCACCATCCGCCCCATGTCTTGACTCCTTTTGTAGAA
GAATGTCTAGTAGCTGCTGCTGGAGGTACCACATCCCATCAAGTAGTTTCTCCTATTTT
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GCTGGCACCAGGAAAGATGTTGAAGTGACTAAGGAGGAGTTTGTCTGGCAGCTCAGAAA
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CCAAGGGGACGTATGACCTTAGCAGACATTGAACGGATTGCTCCTCTGGAAGAGGGAAC
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TCAACTGGCTCTTTTGTGGGAGAACTCATGTATAAAAAACAGCTTTGACTGTTTTAAGAAA
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GTTGCCCCAGAGAAGGCCATAAACTTACAGTGAACGATTTTGTGAGGGATAAATTTATG
CACAAAGATGGTTCGGTCCCCTTGCAGCAGAAAATTCTTGTGGAGGCTGCGCTGGAGGC
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TTTCCGTGCTATGCTCATGTGAAGGCTTCTTTGCAAATGAAGATGGGCAGGTTAGCCCA
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GCTGATGTTATCAAGACGAGATTACAGGTGGCTGCCCGGGCTGGCCAAACCACTTACAGC
GGAGTGATAGACTGCTTTAGAAAGATACTGCGTGAAGAAGGACCAAAAGCTCTGTGGAAG
GGAGCTGGTGCTCGTGTATTTTCGATCCTCACCCAGTTTGGTGTAACTTTGCTGACTTAC
GAATTGCTACAGCGATGGTTCTACATTGATTTTGGAGGAGTAAAACCCATGGGATCAGAG
CCAGTTCTAAATCCAGGATCAACCTGCCTGCCCGAATCCTGATCACGTTGGGGGCTAC
AAACTGGCAGTTGCTACATTTGCAGGGATTGAAAACAATTTGGACTTTACCTACCTCTC
TTCAAGCCATCAGTATCTACCTCAAAGGCTATTGGTGGAGGCCCATAG
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Clone variation with respect to NM_014251.2
1194 a=>g

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014251 unedited</p> <pre> NTGTTCACATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGGCCCGGCCTCGTG CCGAATTCGGCACGAGGGAAGTGAGCCGCCGGTCCCAAACGCCAGCCAGCCAGTCAGT GGGTCCCAGCTCGCCCGCAACCGGGGCGAATCATGGCGGCCCAAGGTGGCTTTAACC AAGAGAGCAGATCCAGCTGAGCTTAGAACAAATATTTTTGAAGTATGCAAGCATTGAGAAA AACGGTGAATTTTTTCATGTCCCCAATGACTTTGCACTCGATACTTGAACATTTTTGGA GAAAGCCAGCCTAATCCAAAGACTGTGGAACCTTTAAGTGGAGTGGTGGATCAGACCAA GATGGATTAATATCTTTCAAGAATTTGTTGCCTTTGAATCTGTCTGTGTGCCCTGAT GCTTTGTTTATGGTAGCCTTTCAGCTGTTTGACAAAGCTGGCAAAGGAGAAGTAACTTTT GAGGATGTTAAGCAAGTTTTTGGACAGACCACAATTCATCAACATATTCCATTTAACTGG GATTCAGAATTTGTGCAACTACATTTTGGAAAAGAAAAGAAAAGACACCTGACATATGCG GAATTTACTCAGTTTTTATTGAAATACAACCTGGAGCACGAAAGCAAGCCTTTGTGCAA CGGGACAATGCTAGGACTGGGAGAGTCACAGCCATCGACTTCGAGACATCATGGTCACC ATCCGCCCCCATGTCTTGACTCCTTTTGTAGAAGAAAGTCTAGTAGCTGTGCTGGAGGT ACCACATCCCATCAAGTTAGGTTCTCCTATTTTATGGATTTAATTCGCTCCTTTACCACA TGGCACTCATTAGTAAGAACTATAGCACTCTGGCTGGCACCAGGAAAGATGTTGAAGTGA CTAAGGCAGAAGT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014251 unedited</p> <pre> TGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTCACTTTACAATAGTTTATTTCCACCTTCACAAATTCATGCCCTTTGACCTTTAT GCAAGGCAACATGAATTAATCCTTATGTCAAACATATTTGTCTTACATTATTCAAAAT AAAGGGGATTTTAAAAGCAAGGGGTCCAATGATGGGAAATAGGAAAATAGGGCAGG CAGCAACAGGGCAACATGCTTTTTTCAAAGTGTTTATTAATAAGGCAGTAATCAGTCC ATGTCCATCATATGACCAGTTTTTCAAATACCACCTCCAGGAAAGGGCTACATCTCA GTTTTTCTGTCTGTACAGTAAATGCCAAAAGTCCTTCCCTAAAGTACAAAGGCATTTT CCTAGTAGTCTTGGTCCCAGTAAACAATATGATTCCTAAACATCTCCAATGGGGTTTTT TACAAAGAAACATGTTTACATAAAAGCTTCATAATATAATCCAAAGACAGAATTTGTGC ATGCTTACAATTTGAAGCCAGCCTGAATATATTTGATATATTTTTTTCATTTCTCCCAG TGTTTTTTATTTTTTATAAATATGCACCTAGTTCCTACCAGTTTAAACACACACGAA CCTACTGCTCTGAACACCATGATTGCCCTCACAGTACCCTTCTTTGGGACTACAATCCCTA GTACAGGAGGGGAGTCCCTAATTCTATTCTGACCTGCTCCTTTCCCAAATATGTTAGTGT TGACAAATCCCATCATTTTCANATGCAAACAAGGTTCTGGGCCAAGGCCATTATAATTT GAAATATCCCCTGGTTCGGTTAAGAAACCCCAAATGATGATTCCTGAATAAAAACCT GGACTGAA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014251
Insert Size:	2940 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).
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_014251.1](#), [NP_055066.1](#)

RefSeq Size: 3150 bp

RefSeq ORF: 2028 bp

Locus ID: 10165

UniProt ID: [Q9UJS0](#)

Cytogenetics: 7q21.3

Domains: mito_carr, EFh

Protein Families: Druggable Genome

Gene Summary: This gene is a member of the mitochondrial carrier family. The encoded protein contains four EF-hand Ca(2+) binding motifs in the N-terminal domain, and localizes to mitochondria. The protein catalyzes the exchange of aspartate for glutamate and a proton across the inner mitochondrial membrane, and is stimulated by calcium on the external side of the inner mitochondrial membrane. Mutations in this gene result in citrullinemia, type II. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The resulting isoform (2) lacks one-aa, compared to isoform 1.