

Product datasheet for **RC228995**

SLC25A13 (NM_001160210) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A13 (NM_001160210) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC25A13
Synonyms:	ARALAR2; CITRIN; CTLN2; NICCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC228995 representing NM_001160210
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCGCCAAGGTGGCTTTAACCAAGAGAGCAGATCCAGCTGAGCTTAGAACAATATTTTTGAAGT
ATGCAAGCATTGAGAAAAACGGTGAATTTTCATGTCCCAATGACTTTGTCACTCGATACTTGAACAT
TTTTGGAGAAAGCCAGCCTAATCCAAGACTGTGGAACTTTTAAGTGGAGTGGTGGATCAGACCAAGAT
GGATTAATATCTTTCAAGAATTTGTTGCCTTTGAATCTGTCCTGTGCCCCCTGATGCTTTGTTTATGG
TAGCCTTTAGCTGTTTGACAAAGCTGGCAAAGGAGAAGTAACTTTGAGGATGTTAAGCAAGTTTTTGG
ACAGACCACAATTCATCAACATATTCCATTTAACTGGGATTGAGAATTTGTGCAACTACATTTTGGAAAA
GAAAGAAAAGACACCTGACATATGCGGAATTTACTCAGTTTTTATTGGAATACAAGTGGAGCAGCGAA
AGCAAGCCTTTGTCAACGGGACAATGCTAGGACTGGGAGAGTCACAGCCATCGACTTCCGAGACATCAT
GGTCACCATCCGCCCCATGCTTGTACTCTTTGTAGAAGAATGTCTAGTAGCTGCTGTTGAGGTACC
ACATCCCATCAAGTTAGTTTCTCTATTTAATGGATTAATTCGCTCCTTAACAACATGGAACCTATTA
GAAAGATCTATAGCACTCTGGCTGGCACCAGGAAAGATGTTGAAGTGAAGTAAAGGAGGAGTTTGTCTGGC
AGCTCAGAAATTTGGTCAGGTTACACCCATGGAAGTTGACATCTTGTTCAGTTAGCAGATTTATATGAG
CCAAGGGGACGTATGACCTTAGCAGACATTGAACGGATTGCTCCTCTGGAAGAGGGAACCTGCCCCTTA
ACTTGGCTGAGGCCAGAGGCAGAGAAGGCTCAGGTGATTGAGCTCGACCAGTTCTTCTACAAGTTGC
AGAGTCGGCTACAGTTTGGTCTGGGTCTGTGCTGGAGCTGTTGGAGCCACTGCTGTGTATCCTATC
GATCTTGTAAAACTCGAATGCAGAACCAACGATCAACTGGCTCTTTTGTGGGAGAACTCATGTAAAA
ACAGCTTTGACTGTTTTAAGAAAGTGTACGCTATGAAGGCTTCTTTGGACTGTATAGAGGTCTGTTGCC
ACAGTTATTGGGAGTTGCCCCAGAGAAGGCCATAAACTTACAGTGAACGATTTTGTGAGGGATAAATTT
ATGCACAAAGATGGTTCGGTCCCCTTGCAGCAGAAATTTCTGCTGGAGGCTGCGCTGGAGGCTCCCAGG
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TCGAGTCAGTCTCTGTCTGTGCTGCGGGACCTGGGGTTTTTTGGGATCTACAAGGGTCCAAAGCATGC
TTTCTGCGGGACATTCCTTTCTCGGCCATCTACTTTCCGTGCTATGCTCATGTGAAGGCTCCTTTGCAA
ATGAAGATGGGCAGGTTAGCCAGGAAGCCTGCTCTTAGCTGGTGCCATAGCTGGTATGCCTGCAGCATC
TTTAGTGACCCCTGCTGATGTTATCAAGACGAGATTACAGGTGGCTGCCCGGGCTGGCCAAACCACTTAC
AGCGGAGTGATAGACTGCTTTAGAAAGTACTGCGTGAAGAAGGACCAAAAGCTCTGTGGAAGGGAGCTG
GTGCTCGTGATTTTCGATCCTCAGCCAGTTTGGTGAACCTTTGCTGACTTACGAATTGCTACAGCGATG
GTTCTACATTGATTTTGGAGGAGTAAAACCCATGGGATCAGAGCCAGTTCCTAAATCCAGGATCAACCTG
CCTGCCCGAATCCTGATCACGTTGGGGCTACAACTGGCAGTTGCTACATTTGCAGGGATTGAAAACA
AATTTGACTTTACCTACCTCTTCAAGCCATCAGTATCTACCTCAAAGGCTATTGGTGGAGGCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228995 representing NM_001160210
Red=Cloning site Green=Tags(s)

MAAAKVALTKRADPAELRTIFLKYASIEKNGEFFMSPNDFVTRYLNIFGESQPNPKTVELLSGVVDQTKD
 GLISFQEFVAFESVLCAPDALFMVAFQLFDKAGKGEVTFEDVKQVFGQTTIHQHIIPFNWSEFVQLHFGK
 ERKRHLTYAETFQFLLEIQLEHAKQAFVQRDNARTGRVTAIDFRDIMVTIRPHVLTFFVEECLVAAAGGT
 TSHQVFSYFNGFNSSLNMMELIRKIYSTLAGTRKDVEVTKEEFVLAQAQKFGQVTPMEVDILFQLADLYE
 PRGRMTLADIERIAPLEEGTLPFNLAEAQRQKASGDSARPVLLQVAESAYRFLGSGVAGAVGATAVYPI
 DLVKTRMQNRSTGSFVGELEMYKNSFDCFKKVLRYEGFFGLYRGLLPQLLGVAPEKAIKLTVNDFVRDKF
 MHKDGSVPLAAEILAGGCAGGSQVIFTNPLEIVKIRLQVAGEITTGPRVSALSVVRDLGFFGIYKGAAC
 FLRDIPFSAIYFPCYAHVKASFANEDGQVSPGSLLLAGAIAGMPAASLVTPADVIKTRLQVAARAGQTTY
 SGVIDCFRKILREEGPKALWKGAGARVFRSSPQFGVTLTYELLQRWFYIDFGGVKPMGSEPVPKSRINL
 PAPANPDHVGGYKLAVATFAGIENKFGLYLPLFKPSVSTSKAIGGGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001160210

ORF Size: 2028 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_001160210.1](#), [NP_001153682.1](#)

RefSeq Size: 3207 bp

RefSeq ORF: 2031 bp

Locus ID: 10165

UniProt ID: [Q9UJS0](#)

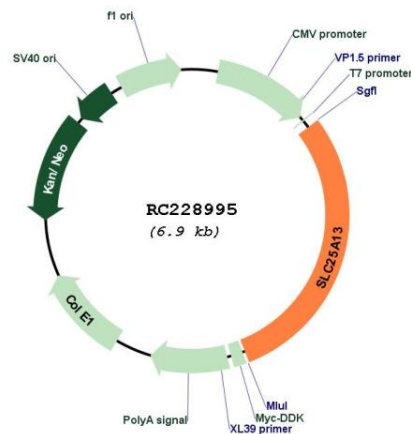
Cytogenetics: 7q21.3

Protein Families: Druggable Genome

MW: 74.3 kDa

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]

Product images:



Circular map for RC228995