

Product datasheet for RC205444

SLC25A42 (NM_178526) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A42 (NM_178526) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC25A42
Synonyms:	MECREN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205444 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGTAAATGGTGTGAAGGAAGGCCCGGTGCGATTGCATGAGGATGCTGAGGCTGTCTGTCTCGTCCG
 TCTCATCAAAGCGTGACCACAGGCAAGTCTCAGCTCCCTGCTGCCTGGGGCCCTGGCTGGTGCCCTTG
 CAAAACAGCGGTAGCTCCCTGGACCGAACCAAAATCATCTTCCAAGTGTCTTCAAAAAGATTTTCTGCC
 AAGGAGGCCTTCCGGTCTCTACTACCTACCTCAACGAGGGATTTCTCAGCTTGTGGCGCGGAACT
 CGGCCACCATGGTGCCTGGTGCCTACGCCCATCCAGTTCAGCGCACACGAGGAGTACAAGCGCAT
 CCTGGGCAGCTACTATGGCTTCCGTGGAGAAGCCCTGCCCTTGGCCTCGCCTCTTCGCCGCGCACTG
 GCTGGAACGACAGCCGTTCACTGACCTACCCCTGGACCTGGTCAGAGCGCGGATGGCCGTAACCCCGA
 AGGAAATGTACAGCAACATCTTTCATGTCTTATCCGCATCTCGAGAGAAGAGGGCTGAAGACTCTCTA
 CCATGGATTTATGCCACCGTGCTGGGGTCATTCCTACGCTGGCCTGAGCTTCTTACCTATGAGACG
 CTCAAGAGCTTGACAGAGAGTACAGCGCCGCGGCAGCCCTACCCCTTCGAGCGCATGATCTTCGGCG
 CCTGCGCTGGCCTCATCGGCAGTCGGCTCGTACCGCTGGATGTGGTGCAGCGCGCATGCAGACGGC
 CGGCGTCACGGGCTACCGCGCGCCTCCATCGCCGACGCTGCGCACCATCGTGGGAGGAGGGCGCC
 GTGCGCGCCTCTACAAAGGCTTGAGCATGAACTGGGTCAAGGTCATCGCCGTGGGCATCAGCTTCA
 CCACCTTCGACCTCATGCAGATCATGCTCGGCACCTGCAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC205444 protein sequence
 Red=Cloning site Green=Tags(s)

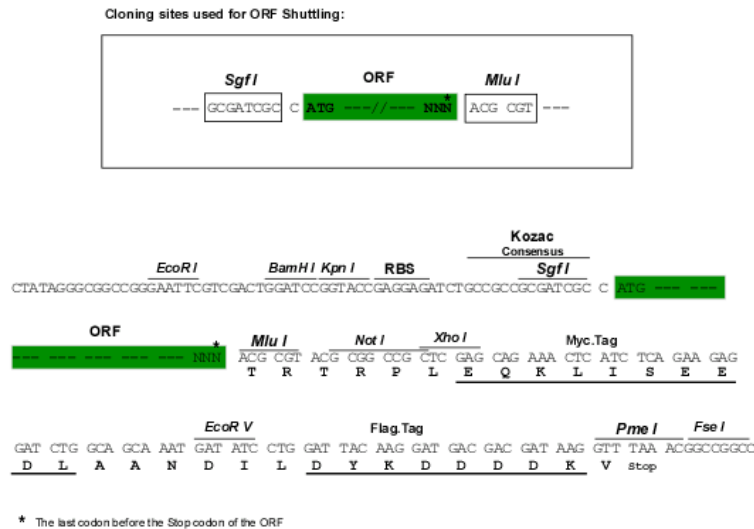
MGNGVKEGPVRLHEDAEAVLSSSVSSKRDHRQVLSSLLPGALAGALAKTAVAPLDRTKIIFQVSSKRFSA
 KEAFRVLYYTYLNEGFLSLWRGNSATMVRVVPYAAIQFSAHEEYKRILGSYYGFRGEALPPWPRLFAGAL
 AGTTAASLTYPDLVRARMAVTPKEMYSNIFHVFIIRISREEGLKTLYHGFMPITVLGVIPYAGLSFFTYET
 LKSLHREYSGRRQPYPFERMIFGACAGLIGQSASYPLDVVRRRMQTAGVTGYPRASIARTLRTIVREEGA
 VRGLYKGLSMNWVKGPIAVGISFTTFDLMLRLHLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6341_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178526

ORF Size: 954 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_178526.2](#)

RefSeq Size: 3279 bp

RefSeq ORF: 957 bp

Locus ID: 284439

UniProt ID: [Q86VD7](#)

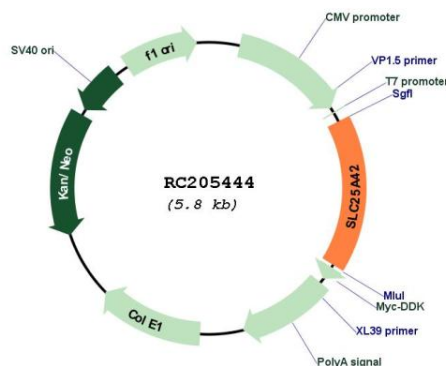
Cytogenetics: 19p13.11

Protein Families: Druggable Genome

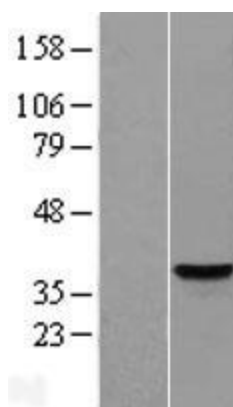
MW: 35.4 kDa

Gene Summary: This gene encodes a solute carrier family 25 protein. Solute carrier family 25 proteins are localized to mitochondria and play critical roles in the transport of molecules across the inner mitochondrial membrane. The encoded protein is a mitochondrial transporter for coenzyme A (CoA) and adenosine 3',5'-diphosphate. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RC205444



Western blot validation of overexpression lysate (Cat# [LY405906]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205444 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SLC25A42 protein (Cat# [TP305444]). The protein was produced from HEK293T cells transfected with SLC25A42 cDNA clone (Cat# RC205444) using MegaTran 2.0 (Cat# [TT210002]).