

Product datasheet for **RG205444**

SLC25A42 (NM_178526) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A42 (NM_178526) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC25A42
Synonyms:	MECREN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205444 representing NM_178526 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTAAATGGTGTGAAGGAAGGCCCGGTGCGATTGCATGAGGATGCTGAGGCTGTCTGTCTCGTCCG
TCTCATCAAAGCGTGACCACAGGCAAGTGCTCAGCTCCCTGCTGCCTGGGGCCCTGGCTGGTGCCCTTG
CAAAACAGCGGTAGCTCCCTGGACCGAACCAAAATCATCTTCCAAGTGTCTTCAAAAAGATTTTCTGCC
AAGGAGGCCTTCCGGTCTCTACTACCTACCTCAACGAGGGATTTCTCAGCTTGTGGCGCGGAACT
CGGCCACCATGGTGCCTGGTGCCTACGCCGCCATCCAGTTCAGCGCACACGAGGAGTACAAGCGCAT
CCTGGGCAGCTACTATGGCTTCCGTGGAGAAGCCCTGCCCTTGGCCTCGCTCTTCGCCGGCGCACTG
GCTGGAACGACAGCCGCTTCACTGACCTACCCCTGGACCTGGTCAGAGCGCGGATGGCCGTAACCCCGA
AGGAAATGTACAGCAACATCTTTCATGTCTTATCCGCATCTCGAGAGAAGAGGGGCTGAAGACTCTCTA
CCATGGATTTATGCCACCGTGCTGGGGTCAATCCCTACGCTGGCTGAGCTTCTTACCTATGAGACG
CTCAAGAGCTTGACAGAGAGTACAGCGGCCCGCGCAGCCCTACCCCTTCGAGCGCATGATCTTCGGCG
CCTGCGCTGGCCTCATCGGCGAGTCGGCTCGTACCGCTGGATGTGGTGGCGCGCGCATGCAGACGGC
CGGCGTCACGGGCTACCGCGCGCCTCCATCGCCGACGCTGCGCACCATCGTGGGAGGAGGGCGCC
GTGCGCGCCTCTACAAAGGCTTGAGCATGAACTGGGTCAAGGTCATCGCCGTGGGCATCAGCTTCA
CCACCTTCGACCTCATGCAGATCATGCTCGGCGACCTGCAGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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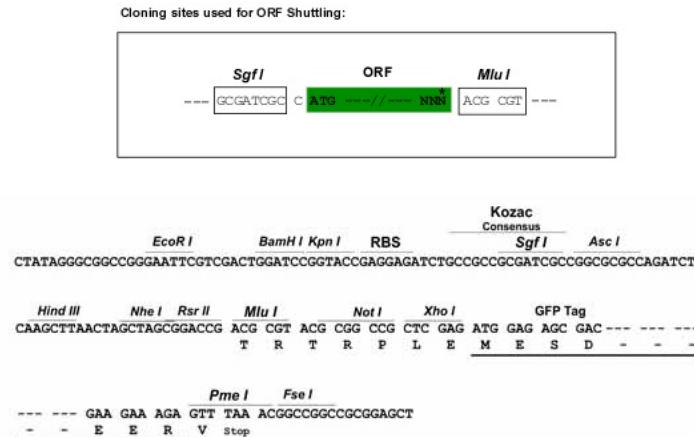
Protein Sequence: >RG205444 representing NM_178526
 Red=Cloning site Green=Tags(s)

MGNVKEGPVRLHEDAEAVLSSSVSSKRDHRQVLSSLLPGALAGALAKTAVAPLDRTKIIFQVSSKRFSA
 KEAFRVLYTYLNEGFLSLWRGNSATMVRVVPYAAIQFSAHEEYKRILGSYYGFRGEALPPWPRLFAGAL
 AGTTAASLTYPDLVRARMAVTPKEMYSNIFHVFIRISREEGLKTLYHGFMPITVLGVIPYAGLSFFTYET
 LKSLHREYSGRRQYPYFERMIFGACAGLIGQSASYPLDVVRRRMQTAGVTGYPRASIARTLRTIVREEGA
 VRGLYKGLSMNVKGPVAVGISFTTFDLMLRLHLS

TRTRPLE – GFP Tag – V

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: 3162 bp

RefSeq ORF: 957 bp

Locus ID: 284439

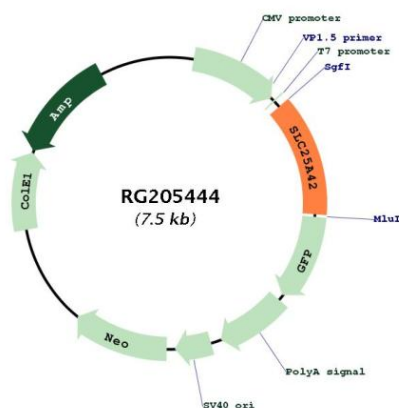
UniProt ID: [Q86VD7](#)

Cytogenetics: 19p13.11

Protein Families: Druggable Genome

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 RG205444