OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC229846

SLC25A21 (NM_001171170) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A21 (NM_001171170) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC25A21
Synonyms:	MTDPS18; ODC; ODC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC229846 representing NM_001171170
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCGCCAAGCCTGAAGTCAGCTTAGTGCGCGAGGCTTCTCGGCAGATCGTGGCCGGTGGTTCTGCAG
GTCTTGTAGAAATTTGCCTGATGCACCCCCTAGATGTGGTGAAAACCAGGTTTCAGATTCAGAGATGTGC
AACCGATCCAAACAGTTATAAAAGCTTGGTAGACAGCTTTCGAATGATTTTCCAAATGGAAGGGTTATTT
GGTTTTTACAAGGGAATTCTGCCACCTATCTTGGCTGAAACCCCAAAAAGAGCAGTGAAGTTTTTCACCT
TTGAGCAGTACAAGAAATTGCTGGGATATGTGTCACTGTCACCAGCATTGACATTCGCCATTGCTGGATT
GGGATCTGGACTAACAGAAGCCATTGTAGTTAACCCTTTTGAGGTAGTAAAAGTTGGCTTGCAAGCAAAT
CGGAACACATTTGCAGAGCAACCATCCACTGTGGGTTATGCAAGACAAATCATTAAGAAGGAAGGCTGGG
GACTCCAGGGCCTCAACAAAGGATTAACTGCAACTTTGGGACGACATGGAGTTTTCAACATGGTTTATTT
TGGCTTCTACTACAATGTCAAAAACATGATTCCTGTCAATAAGGATCCAATCTTGGAGTTTTGGAGAAAA
TTTGGGATTGGTCTTCTCTCGGGGACAATAGCCTCAGTCATTAACATCCCTTTTGATGTTGCCAAAAGTA
GGATTCAAGGGCCTCAACCAGTTCCTGGAGAGATCAAGTACAGAACCTGTTTTAAAACAATGGCAACAGT
CTATCAGGAAGAAGGGATTTTAGCTTTGTACAAAGGCCTGCTTCCCAAGATTATGAGACTTGGACCAGGT
GGTGCAGTGATGCTGCTGGTTTATGAATACACCTATTCATGGCTTCAAGAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC229846 representing NM_001171170
Red=Cloning site Green=Tags(s)

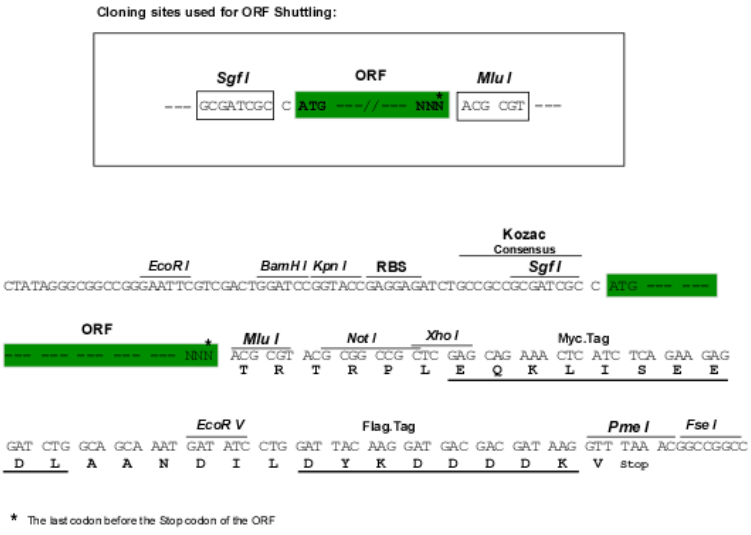
MSAKPEVSLVREASRQIVAGGSAGLVEICLMHPLDVVKTRFQIQRCATDPNSYKSLVDSFRMIFQMEGLF
GFYKGILPPILAETPKRAVKFFTFEQYKKLLGYVSLSPALTFAIAGLGSGLTEAIVVNPFEVVKVGLQAN
RNTFAEQPSTVGYARQIIKKEGWGLQGLNKGLTATLGRHGVFNMVYFGFYYNVKNMIPVNKDPILEFWRK
FGIGLLSGTIASVINIPFDVAKSRIQGPQPVPGEIKYRTCFKTMATVYQEEGILALYKGLLPKIMRLGPG
GAVMLLVYEYTYSWLQEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001171170

ORF Size: 894 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_001171170.2

RefSeq ORF: 897 bp

Locus ID: 89874

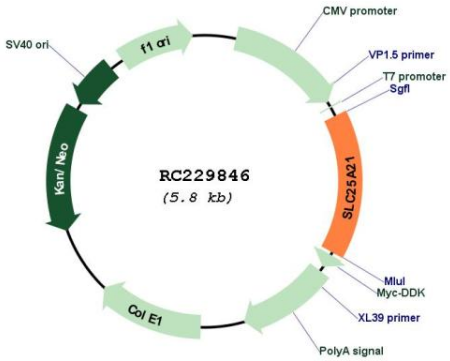
UniProt ID: Q9BQT8

Cytogenetics: 14q13.3

MW: 33.6 kDa

Gene Summary: SLC25A21 is a homolog of the S. cerevisiae ODC proteins, mitochondrial carriers that transport C5-C7 oxodicarboxylates across inner mitochondrial membranes. One of the species transported by ODC is 2-oxoadipate, a common intermediate in the catabolism of lysine, tryptophan, and hydroxylysine in mammals. Within mitochondria, 2-oxoadipate is converted into acetyl-CoA.[supplied by OMIM, Apr 2004]

Product images:



Circular map for RC229846