

Product datasheet for **SC305275**

SLC25A21 (NM_030631) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A21 (NM_030631) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A21
Synonyms:	MTDPS18; ODC; ODC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305275 representing NM_030631. Blue=Insert sequence Red=Cloning site Green=Tag(s)

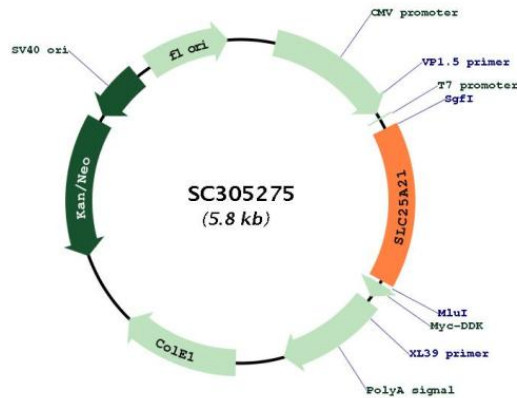
```
GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCCGCCAAGCCTGAAGTCAGCTTAGTGCGCGAGGCTTCTCGGCAGATCGTGGCCGGTGGTTCTGCA
GGTCTTTGTAGAAATTTGCCTGATGCACCCCTAGATGTGGTGAAAACCAGGTTTCAGATTCAGAGATGT
GCAACCGATCCAAACAGTTATAAAAGCTTGGTAGACAGCTTTCGAATGATTTTCCAAATGGAAGGGTTA
TTTGGTTTTTACAAGGAATTCGCCACCTATCTGGCTGAAACCCAAAAAGAGCAGTGAAGTTTTTC
ACCTTTGAGCAGTACAAGAAATGCTGGGATATGTGTCCTGTCACCAGCATTGACATTCGCCATTGCT
GGATTGGGATCTGGACTAACAGAAGCCATTGTAGTTAACCTTTTGGAGTAGTAAAAGTTGGCTTGCAA
GCAATCGGAACACATTTGCAGAGCAACCATCCACTGTGGTTATGCAAGACAAATCATTAAAGAAGGAA
GGCTGGGGACTCCAGGGCTCAACAAAGGATTAAGTGAACCTTTGGGACGACATGGAGTTTTCAACATG
GTTATTTTGGCTTCTACTACAATGTCAAAAACATGATTCCTGTCAATAAGGATCCAATCTTGGAGTTT
TGGAGAAAATTTGGGATTGGTCTTCTCTCGGGGACAATAGCCTCAGTCATTAACATCCCTTTTGGATTT
GCCAAAAGTAGGATTCAGGGCCTCAACCAGTTCCTGGAGAGATCAAGTACAGAACCTGTTTTAAAAACA
ATGGCAACAGTCTATCAGGAAGAAGGGATTTAGCTTTGTACAAAGGCCTGCTTCCCAAGATTATGAGA
CTTGGACCAGGTGGTGCAGTGTCTGCTGGTTTATGAATACACCTATTCATGGCTTCAAGAGAAGCTGG
TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:



ACCN: NM_030631

Insert Size: 900 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_030631.3](#)

RefSeq Size: 3947 bp

RefSeq ORF: 900 bp

Locus ID: 89874

UniProt ID: [Q9BQT8](#)

Cytogenetics: 14q13.3

MW: 33.3 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]

Transcript Variant: This variant (1) is the longer transcript and encodes isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.