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Product datasheet for SC328484

SLC25A21 (NM_001171170) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A21 (NM_001171170) 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:	>SC328484 representing NM_001171170. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGTCCGCCAAGCCTGAAGTCAGCTTAGTGCGCGAGGCTTCTCGGCAGATCGTGGCCGGTGGTTCTGCA GGTCTTGTAGAAATTTGCCTGATGCACCCCCTAGATGTGGTGAAAACCAGGTTTCAGATTCAGAGATGT GCAACCGATCCAAACAGTTATAAAAGCTTGGTAGACAGCTTTCGAATGATTTTCCAAATGGAAGGGTTA TTTGGTTTTTACAAGGGAATTCTGCCACCTATCTTGGCTGAAACCCCAAAAAGAGCAGTGAAGTTTTTC ACCTTTGAGCAGTACAAGAAATTGCTGGGATATGTGTCACTGTCACCAGCATTGACATTCGCCATTGCT GGATTGGGATCTGGACTAACAGAAGCCATTGTAGTTAACCCTTTTGAGGTAGTAAAAGTTGGCTTGCAA GCAAATCGGAACACATTTGCAGAGCAACCATCCACTGTGGGTTATGCAAGACAAATCATTAAGAAGGAA GGCTGGGGACTCCAGGGCCTCAACAAAGGATTAACTGCAACTTTGGGACGACATGGAGTTTTCAACATG GTTTATTTTGGCTTCTACTACAATGTCAAAAACATGATTCCTGTCAATAAGGATCCAATCTTGGAGTTT TGGAGAAAATTTGGGATTGGTCTTCTCTCGGGGACAATAGCCTCAGTCATTAACATCCCTTTTGATGTT GCCAAAAGTAGGATTCAAGGGCCTCAACCAGTTCCTGGAGAGATCAAGTACAGAACCTGTTTTAAAACA ATGGCAACAGTCTATCAGGAAGAAGGGATTTTAGCTTTGTACAAAGGCCTGCTTCCCAAGATTATGAGA CTTGGACCAGGTGGTGCAGTGATGCTGCTGGTTTATGAATACACCTATTCATGGCTTCAAGAGAACTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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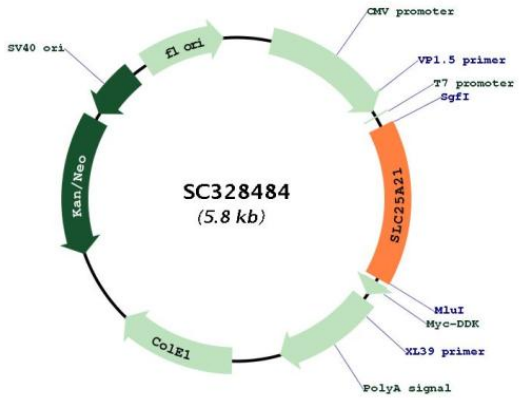
Plasmid Map:



ACCN:	NM_001171170
Insert Size:	897 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_001171170.1
RefSeq Size:	1770 bp
RefSeq ORF:	897 bp

Locus ID:	89874
UniProt ID:	Q9BQT8
Cytogenetics:	14q13.3
MW:	33.1 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 (2) has a split 3' exon, as compared to variant 1. The resulting isoform (2) lacks the last aa, as compared to 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.