

Product datasheet for **SC333623**

SDHC (NM_001278172) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SDHC (NM_001278172) Human Untagged Clone
Tag:	Tag Free
Symbol:	SDHC
Synonyms:	CYB560; CYBL; PGL3; QPS1; SDH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333623 representing NM_001278172. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTGCGCTGTTGCTGAGACGTTGGTCGTCATTGCCTCCGAGCCCACTTTAGCCCTCAGCTCTGT
ATCAGAAATTGGTCTCTTCCCATGGCGATGCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCA
GATGTGGGACCTAGGAAAAGGCCTGAAGATTCCCAGCTATACCAGTCTGGAGTGGTTGCCTGTTCT
TACTGTGTTCCTCTATGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCAGCATCATCTTCTACA
CATTATTACATTCACCCATCTTTCTGTTTGTTCATTCTTATCTCCAGCCTGGGAAAAGTTCTCCTTATT
GTTTAG
ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites:	SgfI-MluI
ACCN:	NM_001278172
Insert Size:	351 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).
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).



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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_001278172.1](#)

RefSeq Size: 2592 bp

RefSeq ORF: 351 bp

Locus ID: 6391

UniProt ID: [Q99643](#)

Cytogenetics: 1q23.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Alzheimer's disease, Citrate cycle (TCA cycle), Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

MW: 12.8 kDa

Gene Summary: This gene encodes one of four nuclear-encoded subunits that comprise succinate dehydrogenase, also known as mitochondrial complex II, a key enzyme complex of the tricarboxylic acid cycle and aerobic respiratory chains of mitochondria. The encoded protein is one of two integral membrane proteins that anchor other subunits of the complex, which form the catalytic core, to the inner mitochondrial membrane. There are several related pseudogenes for this gene on different chromosomes. Mutations in this gene have been associated with paragangliomas. Alternatively spliced transcript variants have been described. [provided by RefSeq, May 2013]

Transcript Variant: This variant (5, also known as delta 3+5), lacks two alternate exons, which results in a frameshift, compared to variant 1. The encoded isoform (5) is shorter and has a distinct C-terminus, 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.