

Product datasheet for **SC319204**

SDHB (NM_003000) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SDHB (NM_003000) Human Untagged Clone
Tag:	Tag Free
Symbol:	SDHB
Synonyms:	CWS2; IP; MC2DN4; PGL4; SDH; SDH1; SDH2; SDHIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003000.2
 ACCCGGAAACCGGAAGCCGCTCCCACTTGGTTGCTCGTACCGGCTAGTGGGTCCTCA
 GTGGATGTAGGCTGGGCGCCGCGATGTTTCGACGGGACACCGGCGAGAGCGACCTCGGGG
 TTAAGGGGTGGGCTGAGTGCAGGAGCCAAGATGGCGGCGGTGGTCGCACTCTCCTTGAG
 GCGCCGGTTGCCGGCCACAACCCCTTGGCGGAGCCTGCCTGCAGGCCTCCCGAGGAGCCCA
 GACAGCTGCAGCCACAGCTCCCCGTATCAAGAAATTTGCCATCTATCGATGGGACCCAGA
 CAAGGCTGGAGACAAACCTCATATGCAGACTTATGAAGTTGACCTTAATAAATGTGGCC
 CATGGTATTGGATGCTTAAATCAAGATTAAGAATGAAGTTGACTCTACTTTGACCTCCG
 AAGATCATGCAGAGAAGGCATCTGTGGCTTTGTGCAATGAACATCAATGGAGGCAACAC
 TCTAGCTTGCACCCGAAGGATTGACACCAACCTCAATAAGGTCTCAAAAATCTACCCTCT
 TCCACACATGTATGTGATAAAGGATCTTGTCCCGATTTGAGCAACTTCTATGCACAGTA
 CAAATCCATTGAGCCTTATTTGAAGAAGAAGGATGAATCTCAGGAAGGCAAGCAGCAGTA
 TCTGCAGTCCATAGAAGAGCGTGAGAACTGGACGGGCTCTACGAGTGCATTCTCTGTGC
 CTGCTGTAGCACCAGCTGCCCCAGCTACTGGTGGAAACGGAGACAAATATCTGGGGCTGC
 AGTTCTTATGCAGGCCTATCGCTGGATGATTGACTCCAGAGATGACTTCACAGAGGAGCG
 CCTGGCCAAGCTGCAGGACCCATTCTCTATACCGCTGCCACACCATCATGAATGCAC
 AAGGACCTGTCTAAGGGTCTGAATCCAGGAAAGCTATTGCAGAGATCAAGAAAATGAT
 GGCAACCTATAAGGAGAAGAAAGCTTCAGTTAACTGTTTCCATGCTAAACATGATTTAT
 AACCAGCTCAGAGCTGAACATAATTTATATCTAATTTGAGTTCCTTTAAAGATCTTGGTT
 TTCCATGAATACAGCATGTATAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003000



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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:	<ol style="list-style-type: none">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_003000.2 , NP_002991.2
RefSeq Size:	1161 bp
RefSeq ORF:	843 bp
Locus ID:	6390
UniProt ID:	P21912
Cytogenetics:	1p36.13
Domains:	fer2
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Citrate cycle (TCA cycle), Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Gene Summary:	Complex II of the respiratory chain, which is specifically involved in the oxidation of succinate, carries electrons from FADH to CoQ. The complex is composed of four nuclear-encoded subunits and is localized in the mitochondrial inner membrane. The iron-sulfur subunit is highly conserved and contains three cysteine-rich clusters which may comprise the iron-sulfur centers of the enzyme. Sporadic and familial mutations in this gene result in paragangliomas and pheochromocytoma, and support a link between mitochondrial dysfunction and tumorigenesis. [provided by RefSeq, Jul 2008]