

Product datasheet for SC118276

SDHD (NM_003002) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SDHD (NM_003002) Human Untagged Clone
Tag: Tag Free
Symbol: SDHD
Synonyms: CBT1; CII-4; CWS3; cybS; MC2DN3; PGL; PGL1; QPs3; SDH4
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003002 edited
 ATGGCGTTCTCTGGAGGCTGAGTGCCGTTTGCGGTGCCCTAGGAGGCCGAGCTCTGTTG
 CTTCCGAAGTCCAGTGGTGCAGACCTGCTCATATCTCAGCATTTCTCAGGACCGACCTATC
 CCAGAATGGTGTGGAGTGCAGCACATACACTTGTACCGAGCCACCATTCTGGCTCCAAG
 GCTGCATCTCTCCACTGGACTAGCGAGAGGGTTGTCAGTGTGTTGCTCCTGGGTCTGCTT
 CCGGCTGCTTATTTGAATCCTTGCTCTGCGATGGACTATTCCTGGCTGCAGCCCTCACT
 CTTTCATGGTCACTGGGCTTGGACAAGTTGTTACTGACTATGTTTCATGGGGATGCCTTG
 CAGAAAGTGCCTAAGGCAGGGCTTTTGGCACTTTCAGCTTTAACCTTTGCTGGGCTTTGC
 TATTTCAACTATCAGATGTGGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003002 unedited
 TGTAAATACGACTCACTATAGGGCGCCGGAATTCGGCACGAGGCAGGAACGAGATGGCG
 GTTCTCTGGAGGCTGAGTGCCGTTTGCGGTGCCCTAGGAGGCCGAGCTCTGTTGCTTCGA
 ACTCCAGTGGTGCAGACCTGCTCATATCTCAGCATTTCTCAGGACCGACCTATCCAGAA
 TGGTGTGGAGTGCAGCACATACACTTGTACCGAGCCACCATTCTGGCTCCAAGGCTGCA
 TCTCTCCACTGGACTAGCGAGAGGGTTGTCAGTGTGTTGCTCCTGGGTCTGCTCCGGCT
 GCTTATTTGAATCCTTGCTCTGCGATGGACTATTCCTGGCTGCAGCCCTCACTTTCAT
 GGTCACTGGGCTTGGACAAGTTGTTACTGACTATGTTTCATGGGGATGCCTTGCAGAAA
 GCTGCCAAGGCAGGGCTTTTGGCACTTTCAGCTTTAACCTTTGCTGGGCTTTGCTATTT
 AACTATACGATGTGGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCTTTT
 TGACTTCATACTTTGAAGAATTGATGTATGCCTCTTTGCCTCTGCTTTGTCATGCCATTA
 AGCTCACAAATAAGGAAGAAATAACAGATAAGTCCATTGGTGGACAGCCTTCTTCTCTTAA
 TCACAAGATTATTTTTCAGAAATTAATCTTTGAGGANNAGGTTTGAGAGGATTATATCTAA
 GTTGTGAGACTGANGTCTATATCTGGTGAGTTAATGGGGTGCCTCCAGCTTCTTATA
 GACTCACAGTATACTAACATGAATATCAGCTTTTGCCTTTCAATTATCAATCTCTTAAAG
 GATCCCACTTTTTACGATAGNATTGATCAACTTCTATTGCCTTGGGATAATGACA



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Gene Summary:

This gene encodes a member of complex II of the respiratory chain, which is responsible for the oxidation of succinate. The encoded protein is one of two integral membrane proteins anchoring the complex to the matrix side of the mitochondrial inner membrane. Mutations in this gene are associated with the formation of tumors, including hereditary paraganglioma. Transmission of disease occurs almost exclusively through the paternal allele, suggesting that this locus may be maternally imprinted. There are pseudogenes for this gene on chromosomes 1, 2, 3, 7, and 18. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2013]

Transcript Variant: This variant (1) encodes the longest isoform (a).