

## Product datasheet for **RG231585**

### SDHD (NM\_001276503) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SDHD (NM\_001276503) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SDHD  
**Synonyms:** CBT1; CII-4; CWS3; cybS; MC2DN3; PGL; PGL1; QPs3; SDH4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231585 representing NM\_001276503  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGTTCTCTGGAGGCTGAGTGCCGTTTGCGGTGCCTAGGAGGCCGAGCTCTGTTGCTTCGAACTC  
 CAGTGGTCAGACCTGCTCATATCTCAGCATTTCTCAGGACCGACCTATCCAGAATGGTGTGGAGTGCA  
 GCACATACTTGTACCGAGCCACCATTGGGCCTTGACAAGTTGTTACTGACTATGTTTCATGGGGATG  
 CCTTGCAGAAAGCTGCCAAGGCAGGGCTTTGGCACTTTCAGCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231585 representing NM\_001276503  
 Red=Cloning site Green=Tags(s)  
 MAVLWRLSAVCGALGGRALLLRTPVVRPAHISAFLODRPIPEWCGVQHIHLSPSHHWALDKLLLTMFMGM  
 PCRKLPRQGFWHFQL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



[View online »](#)



<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001276503.2</a></u>
<b>RefSeq Size:</b>	1250 bp
<b>RefSeq ORF:</b>	258 bp
<b>Locus ID:</b>	6392
<b>UniProt ID:</b>	<u><a href="#">O14521</a></u>
<b>Cytogenetics:</b>	11q23.1
<b>Protein Pathways:</b>	Alzheimer's disease, Citrate cycle (TCA cycle), Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>Gene Summary:</b>	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]