

Product datasheet for **RG235729**

SDHC (NM_001278172) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SDHC (NM_001278172) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SDHC
Synonyms: CYB560; CYBL; PGL3; QPS1; SDH3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235729 representing NM_001278172.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGCGCTGTTGCTGAGACACGTTGGTCGTCATTGCCTCCGAGCCCACTTTAGCCCTCAGCTCTGT
ATCAGAAATTGGTCTCTTCCCATGGCGATGTCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCA
GATGTGGGACCTAGGAAAAGGCCTGAAGATTCGCCAGCTATACCAGTCTGGAGTGGTTGCCTGTTCT
TACTGTGTGCTCTATGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCAGCATCATCTTCTACA
CATTATTACATTCACCCATCTTCTGTTTGTTCATTCTTATCTCCAGCCTGGGAAAAGTTCTCCTTATT
GTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235729
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAALLLRHVGRHCLRAHFSPQLCIRNWSLPMAMSIHRGTGIALSADVGRKRPEDESPAIPVWSGCPGS
YCVVLYGAGSHVKKGGSQHHLPTHYYIHPSFCLSFSPAWEKFSLFV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEDE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI

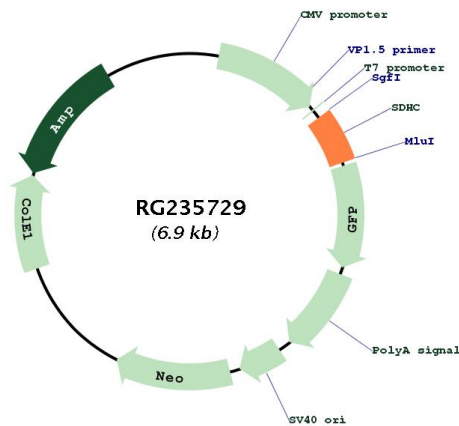


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001278172

ORF Size: 348 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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).
RefSeq:	NM_001278172.2
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:	13.3 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]