

Product datasheet for **MG203816**

Sdhb (NM_023374) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sdhb (NM_023374) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Sdhb
Synonyms: 0710008N11Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203816 representing NM_023374
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCACGGTCGGGGTCTCCTTGAAGCGCGGCTTCCCGGCTGCCGTTCTCGGCAGAGTCGGCCTGC
AGTTTCAGGCCTGTCGAGGGGCACAGACAGCTGCTGCTGCAGCTCCAGAATCAAAAAATTTGCCATTTA
CCGATGGGACCCAGACAAGACTGGAGATAAACCTCGAATGCAGACGTACGAGGTGGATCTGAATAAGTGC
GGACCTATGGTGTGGATGCTTTAATCAAGATCAAGAATGAAGTGGATTCTACTTTAACCTCCGAAGAT
CTTGATAGAGAAGGCATCTGTGGCTTTGCGCCATGAACATCAACGAGGCAATACTCTGGCGTGCACACG
CAGGATCGACACGGACCTCAGCAAAGTCTCCAAAATCTACCCTCTCCACATATGTATGTGATCAAGGAT
CTAGTCCCTGATTTGAGTAACTTCTACGCACAATACAAATCCATTGAGCCTTATCTGAAGAAGAAGGATG
AGTCCCAGGAGGGCAAGCAACAGTATCTGCAGTCCATCGAGGACCGGAGAAGCTGGACGGGCTGTACGA
GTGCATCTGTGTGCCTGCTGCAGCACCAGCTGCCCCAGCTACTGGTGGAACGGAGACAAGTACCTGGGG
CCTGCAGTTCTCATGCAGGCCTATCGCTGGATGATCGACTCCAGAGACGACTTCACAGAGGAACGCCTGG
CCAAGCTGCAGGACCCCTTCTCTGTCTACCGCTGCCACACCATCATGAACTGCACACAGACCTGCCCAA
GGGTCTGAATCCGGGGAAAGCGATTGCGGAAATCAAGAAGATGATGGCGACCTACAAGGAGAAGCGAGCA
TTGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203816 representing NM_023374
 Red=Cloning site Green=Tags(s)

MAATVGVSLSKRGFPAAVLGRVGLQFQACRGAQTAAAAAPRIKKFAIYRWDPDKTGDKPRMQTYEVDLNNK
 GPMVLDALIKIKNEVDSTLTFRRSCREGICGSCAMNINGNTLACTRRIDTDLKSVSKIYPLPHMYVIKD
 LVPDLNMFYAQYKSIIEPYLKKKDESQEGKQYQLQSIEDREKLDGLYECILCACCSTSCPSYWWNGDKYLG
 PAVLMQAYRWMIDSRDDFTEERLAKLQDPFSVYRCHTIMNCTQTCPKGLNPGKAI AEIKMMATYKEKRA
 LA

TRTRPLE - GFP Tag - V

Restriction Sites:

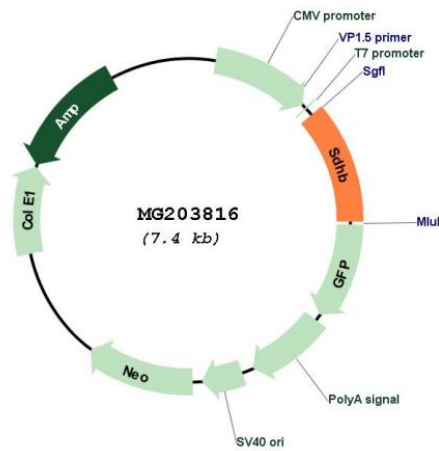
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_023374

ORF Size: 846 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).
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_023374.4
RefSeq Size:	1091 bp
RefSeq ORF:	849 bp
Locus ID:	67680
UniProt ID:	Q9CQA3
Cytogenetics:	4 D3
Gene Summary:	Iron-sulfur protein (IP) subunit of succinate dehydrogenase (SDH) that is involved in complex II of the mitochondrial electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q).[UniProtKB/Swiss-Prot Function]