

Product datasheet for **RR210540**

Sdhb (NM_001100539) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sdhb (NM_001100539) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sdhb
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR210540 representing NM_001100539
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCGGTGGTCGGGGTCTCCTTGAAGCGCGGCTTTTCGGCTACGGCTCTCGGCAGAGTCGGCCTGC
AGTTTCAGGCCTGCCGAGAGGCACAGACAGCTGCTGCTGCAGCTCCAGAATCAAACCTTCGCCATTTA
CCGATGGGACCCGGACAAGGCTGGAGATAAACCTCGAATGCAGACATACAAGGTGGATCTGAATAAGTGT
GGACCGATGGTGTGGATGCTCTAATCAAGATTAAGAATGAAATCGATTCTACTTTGACCTTCCGAAGAT
CATGCAGAGAAGGGATCTGTGGCTTTGTGCCATGAACATCAACGGAGGCAACACGCTGGCATGCACGCG
CAGGATCGACACAGACCTTGGCAAAGTCTCGAAAATATACCCTTTCGCATATGTATGTGATCAAGGAT
CTAGTCCCTGACTTGAGTAACTTCTATGCACAATACAAATCCATTGAGCCCTATCTGAAGAAGAAGGATG
AGTCCCAGGAGGGCAAGCAACAGTATCTGCAATCCATCGAGGACCGGAGAAGCTGGACGGATTGTATGA
GTGCATCCTGTGTGCCTGCTGCAGCACCAGCTGTCCCAGTTACTGGTGAACGGAGACAAGTACCTGGG
CCTGCAGTTCTCATGCAGGCTTATCGCTGGATGATCGACTCCAGAGATGAATTCACAGAGGAGCGCCTGG
CCAAGCTGCAGGACCCCTTCTCTCTACCGCTGCCACACCATCATGAACTGTACACAGACCTGCCCCAA
GGGTCTGAATCCAGGAAAAGCAATTGCAGAAATCAAGAAGATGATGGCGACCTACAAGGAGAAGCGGGCA
TTGGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210540 representing NM_001100539
 Red=Cloning site Green=Tags(s)

MAAVVGVSLKRGFSATALGRVGLQFQACREAAQTAAAAAPRIKTFAIYRWDPKAGDKPRMQTYKVDLNKC
 GPMVLDALIKIKNEIDSTLTFRRSCREGICGSCAMNINGNTLACTRRIDTDLGKVKSIYPLPHMYVIKD
 LVPDLSNFYAQYKSIIEPYLKKKDESQEGKQOYLQSIEDREKLDGLYECILCACCSTSCPSYWWNGDKYLG
 PAVLMQAYRWMIDSRDEFTEERLAKLQDPFSLYRCHTIMNCTQTCPKGLNPGKAI AEIKMMATYKEKRA
 LA

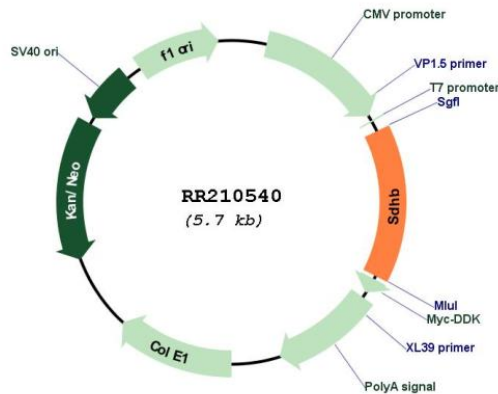
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001100539

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_001100539.1 , NP_001094009.1
RefSeq Size:	1007 bp
RefSeq ORF:	849 bp
Locus ID:	298596
UniProt ID:	P21913
Cytogenetics:	5q36
MW:	31.8 kDa
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]