

Product datasheet for MR201318

Sdhaf2 (NM_025333) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Sdhaf2 (NM_025333) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Sdhaf2
 Synonyms: 0610038F07Rik; AA407634; AW049997
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR201318 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGGTGGTCACCTTGATCCCGACGCTGGCGGGGCACTGTCAAAGCACAGTCTGCTGTCTCCCTTGC
 CTAGTGTGACATCATTACAGACGCTTCTACAGAGGTGACAGCCCAACAGACTCTCAAAAAGACATGATTGA
 AATCCCTTTGCCTCCGTGGCAGGAGAGAACTGATGAATCCATAGAAACAAAAGAGCCCGCTTACTCTAT
 GAGAGCAGAAAGAGGGGGATGCTGGAGAACTGCATTCTCCTTAGCCTGTTTGCTAAAGAGTATCTGCACA
 ACATGACAGAGAAGCAGCTGAACCTCTATGATCGCCTGATTAACGAGCCTAGCAATGACTGGGATATTTA
 CTACTGGCCACAGAAGCAAAACAGCCCCAGAAATATTTGAAAATGAAGTCATGGAATTGCTGAGAGAA
 TTCGCCAAAAACAAAACAAGGAGCAGAGACTGCGTGCCCCAGATCTGGAGTATCTTTGAAAAGCCTC
 AT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201318 protein sequence
 Red=Cloning site Green=Tags(s)

MAVVTLIPTLARALSKHSLLSPLPSVTSFRRFYRGDSPTDSQKDMIEIPLPPWQERTDESIETKRARLLY
 ESRKRGMLENCILLSLFAKEYLHNMTEKQLNLYDRLINEPSNDWDIYYWATEAKPAPEIFENEVMELLRE
 FAKNKNKEQRLRAPDLEYLFEKPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_025333

ORF Size: 495 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:

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_025333.4](#), [NP_079609.2](#)

RefSeq Size: 3116 bp

RefSeq ORF: 495 bp

Locus ID: 66072

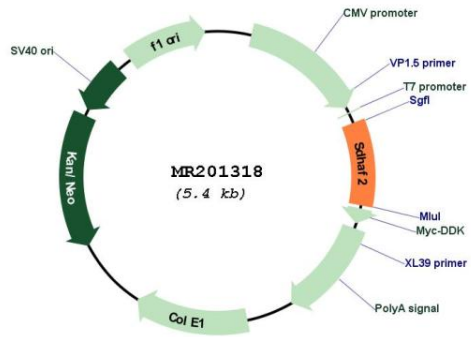
UniProt ID: [Q8C6I2](#)

Cytogenetics: 19 A

MW: 19.4 kDa

Gene Summary: Plays an essential role in the assembly of succinate dehydrogenase (SDH), an enzyme complex (also referred to as respiratory complex II) that is a component of both the tricarboxylic acid (TCA) cycle and the mitochondrial electron transport chain, and which couples the oxidation of succinate to fumarate with the reduction of ubiquinone (coenzyme Q) to ubiquinol. Required for flavinylation (covalent attachment of FAD) of the flavoprotein subunit SDHA of the SDH catalytic dimer.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201318