

# **Product datasheet for MG200347**

## Sdhaf4 (NM 026503) Mouse Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Sdhaf4 (NM 026503) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Sdhaf4

**Synonyms:** 1110058L19Rik; 1700001E18Rik; C6orf57

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG200347 representing NM\_026503

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACTGGGAACGGAAGGGACGCTGCATTGACTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200347 representing NM\_026503

Red=Cloning site Green=Tags(s)

MVSTTLSVSRMTFVWRAARPSLLNHSLRKMSYQEGKPEPAKQALKKSKLPLGRFDSLEDSPEEREPLQKF

PDDVNPVTKEKGGPKGPEPTRYGDWERKGRCIDF

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

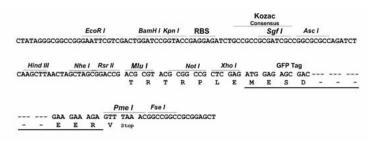
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

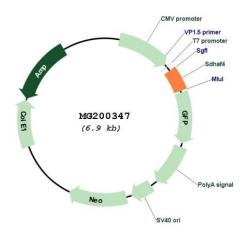


#### **Cloning Scheme:**





#### Plasmid Map:



**ACCN:** NM\_026503

ORF Size: 312 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

### Sdhaf4 (NM\_026503) Mouse Tagged ORF Clone - MG200347

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:** <u>NM 026503.3</u>

RefSeq Size: 661 bp
RefSeq ORF: 315 bp
Locus ID: 68002
UniProt ID: Q8BTE0
Cytogenetics: 1 A5

**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 (PubMed:24954416). Binds to the flavoprotein subunit Sdha in its FAD-bound form, blocking the generation of excess reactive oxigen species (ROS) and facilitating its

assembly with the iron-sulfur protein subunit Sdhb into the SDH catalytic dimer (By similarity).

[UniProtKB/Swiss-Prot Function]