

## Product datasheet for RN207511

### Sdhaf3 (NM\_001047914) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sdhaf3 (NM_001047914) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Sdhaf3
Synonyms:	Acn9; LRRGT00092
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN207511 representing NM_001047914 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAGATCTGGGTGGCAGAAGTTTGACTGTGTTGTGGTAACAGCCAGGGGCTCTGACACAAGCACAC  
TGGCAAAAGATGCAGATGAGAACAGGCCACCTTCCTTTGGCTCCTTTGGAGAAACGAGATAACATATGC  
AGCAGTGTGTGGCAACAAGCTAAGGACAGCAGACAAAGTTCAAGCGGAAAAGCATGCTTTGGCACTTCT  
CTCCAGAAGAAAACCTCAATGACTTTTCGTGATGAGCAAATCGGACAGTTGCAGGAGCTAATGCAGGAAG  
CTACTAAGCCGAATCGGCAGTTCAGTATCACCGAGTCTACAAAACCACACTTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001047914
Insert Size:	336 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).



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**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\\_001047914.1](#), [NP\\_001041379.1](#)

**RefSeq Size:** 336 bp

**RefSeq ORF:** 336 bp

**Locus ID:** 362323

**UniProt ID:** [Q6TUF2](#)

**Cytogenetics:** 4q21

**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. Promotes maturation of the iron-sulfur protein subunit Sdhb of the SDH catalytic dimer, protecting it from the deleterious effects of oxidants. May act together with SDHAF1.[UniProtKB/Swiss-Prot Function]