

Product datasheet for **RN207048**

Sdhaf2 (NM_001008371) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sdhaf2 (NM_001008371) Rat Untagged Clone
Tag: Tag Free
Symbol: Sdhaf2
Synonyms: RGD1309216
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN207048 representing NM_001008371
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGGTCACCTTGATCCCGACGCTGGCGGGTATTGTCAAAGCACAGTCTGCTGTCTCCTTTGC
TTAGTGTGACATCGTTCAGACGCTTCTACAGAGGTGACAGCCCAACAGATTCTCAAAAAGACATGATTGA
AATCCCTTTGCCCTCCGTGGCAGGAGAGAACTGATGAATCCATAGAAACAAAAGAGCCCGCTTACTGTAT
GAGAGCAGAAAGAGGGGGATGCTGGAGAACTGCATTCTCCTGAGCCTCTTTGCTAAAGAATATCTGCACA
ACATGACAGAGAAGCAGCTGAACCTCTACGATCGTCTGATTAATGAGCCTAGCAATGACTGGGATATTTA
CTACTGGGCCACAGAAGCAAAACAGCTCCAGAAATATTTGAAAATGAAGTCATGGAACACTGAGAGAA
TTCACCAAAAACAAAACAAAAGAGCAGAGACTGCGTGCCCCAGATCTGGAATATCTCTTTGAAAAGCCTC
GTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001008371
Insert Size: 495 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).



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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:	<u>NM_001008371.1, NP_001008372.1</u>
RefSeq Size:	1890 bp
RefSeq ORF:	495 bp
Locus ID:	361726
UniProt ID:	<u>Q5RJQ7</u>
Cytogenetics:	1q43
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]