

Product datasheet for **RG216831**

SDHAF1 (NM_001042631) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: SDHAF1
Synonyms: LYRM8; MC2DN2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216831 representing NM_001042631
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAGCCGGCACAGCCGGCTGCAGAGGCAGGTTCTGAGCCTGTACCGCGATCTGCTGCGCGCCGGGCGTG
GGAAGCCGGGCGCCGAGGCGCGAGTGCGGGCAGAGTTCCGGCAGCATGCGGGCCTGCCGCGGTCCGACGT
GCTGCGCATCGAGTACCTGTACCGCCGCGGGCGGCCAGCTGCAGCTGCTACGCTCGGGCCACGCCACC
GCCATGGGCGCCTTCGTACGCCCGCGGGCCCCGACCGGGGAGCCTGGCGGCGTGGGTCCCAGCCTGACG
ACGGCGACAGTCCAAGGAACCCACGACAGCACGGGGCACCGGAGACCGCCCCGACGGACGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >RG216831 representing NM_001042631
Red=Cloning site Green=Tags(s)

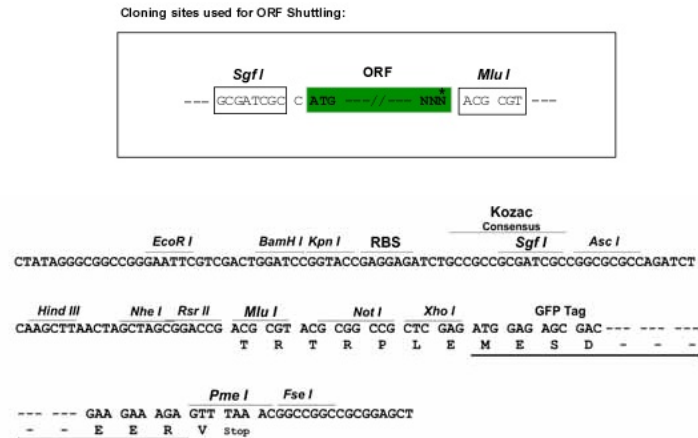
MSRHSRLQRQVLSLYRDLLRAGRGKPGAEARVRAEFRQHAGLPRSDVLRIEYL YRRGRRQLQLLRSGHAT
AMGAFVRPRAPTGEPPGVGSQPDDGDSPRNPHDSTGAPETRPDGR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001042631

ORF Size: 345 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

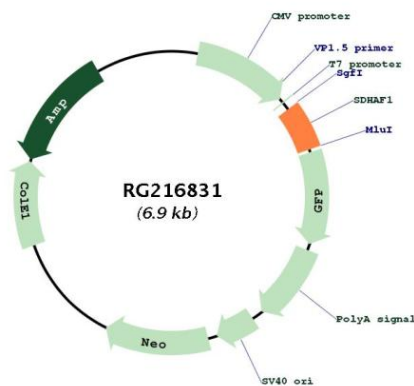
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001042631.2</u>
RefSeq Size:	1131 bp
RefSeq ORF:	348 bp
Locus ID:	644096
UniProt ID:	<u>A6NFI7</u>
Cytogenetics:	19q13.12
Gene Summary:	The succinate dehydrogenase (SDH) complex (or complex II) of the mitochondrial respiratory chain is composed of 4 individual subunits. The protein encoded by this gene resides in the mitochondria, and is essential for SDH assembly, but does not physically associate with the complex in vivo. Mutations in this gene are associated with SDH-defective infantile leukoencephalopathy (mitochondrial complex II deficiency).[provided by RefSeq, Mar 2010]

Product images:



Circular map for RG216831