

Product datasheet for RG205542

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OriGene Technologies, Inc.

C6orf57 (SDHAF4) (NM_145267) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: C6orf57 (SDHAF4) (NM_145267) Human Tagged ORF Clone

Tag: TurboGFP Symbol: C6orf57

Synonyms: C6orf57; Sdh8

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG205542 representing NM_145267

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CCCGATATGGAGATTGGGAACGAAAAGGACGCTGTATTGATTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205542 representing NM_145267

Red=Cloning site Green=Tags(s)

 ${\tt MTPSRLPWLLSWVSATAWRAARSPLLCHSLRKTSSSQGGKSELVKQSLKKPMLPEGRFDAPEDSHLEKEP}$

LEKFPDDVNPVTKEKGGPRGPEPTRYGDWERKGRCIDF

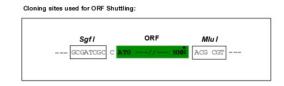
TRTRPLE - GFP Tag - V

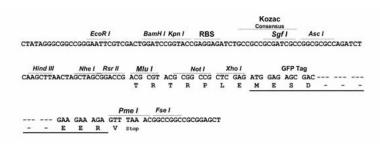
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





ACCN: NM_145267

ORF Size: 324 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: <u>NM 145267.1</u>

RefSeq Size:526 bpRefSeq ORF:327 bp



 Locus ID:
 135154

 UniProt ID:
 Q5VUM1

 Cytogenetics:
 6q13

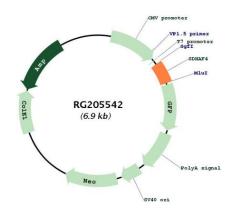
Protein Families: Secreted Protein

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]

Product images:



Circular map for RG205542