

Product datasheet for **SC306238**

C6orf57 (SDHAF4) (NM_145267) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C6orf57 (SDHAF4) (NM_145267) Human Untagged Clone
Tag:	Tag Free
Symbol:	C6orf57
Synonyms:	C6orf57; Sdh8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145267, the custom clone sequence may differ by one or more nucleotides

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ATGACCCCATCGAGGCTTCCCTGGTTGCTTAGCTGGGTCTCGGCCACGGCGTGGAGAGCGGCAAGATCAC
CCCTTCTGTGTCATTCTCTGAGGAAAACAAGTTCTTCTCAAGGAGGAAAGTCTGAACTTGTCAAACAGTC
CCTTAAGAAGCCGAAGTTACCAGAAGGTCGTTTTGATGCACCAGAGGATCCCATTTAGAGAAAGAACCA
CTGAAAAAATTTCCAGATGATGTTAATCCAGTGACCAAAGAAAAAGGTGGACCCAGGGGCCAGAACCTA
CCCGATATGGAGATTGGGAACGAAAAGGACGCTGTATTGATTTTTAA
```

Restriction Sites:	Please inquire
ACCN:	NM_145267
Insert Size:	1300 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_145267.2](#), [NP_660310.2](#)

RefSeq Size: 526 bp

RefSeq 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 oxygen species (ROS) and facilitating its assembly with the iron-sulfur protein subunit SDHB into the SDH catalytic dimer (By similarity).[UniProtKB/Swiss-Prot Function]