

Product datasheet for **SC111364**

ACN9 (SDHAF3) (NM_020186) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACN9 (SDHAF3) (NM_020186) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACN9
Synonyms:	ACN9; DC11; LYRM10; Sdh7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111364 sequence for NM_020186 edited (data generated by NextGen Sequencing) ATGCCGGGGCGGCACGTTTCTCGAGTCCGGGCATTGTACAAGCGGTCTTGCAGCTGCAC CGTGTTCTGCCCCGGACCTCAAATCCCTGGGCGACCAGTACGTGAAAGACGAATTTAGG AGACATAAGACCGTTGGTTCTGACGAGGCACAGCGTTTCTTGAAGAATGGGAGGTGTAT GCAACAGCGTTATTGCAACAGGCTAACGAAAACAGACAAAATCAACTGGAAAAGCATGT TTTGGCACCTTCTCCAGAAGAAAACTTAATGACTTTCGTGATGAACAAATTGGACAG TTGCAGGAGCCGATGCAAGAAGCCACAAAACCAATAGGCAATTTAGTATTTCTGAGTCT ATGAAACCAAAATTTTAG Clone variation with respect to NM_020186.2 311 t=>c



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020186 unedited
 GTTCAGGAATTGAACACGATTTCATATAGCGCGCCGCGCAATTCGCACGAGGCGCAGGCGC
 AGTCGGCGGTCCGGCTGGGGCGCTATGCCGGGGCGGCACGTTTCTCGAGTCCGGGCATTG
 TACAAGCGCGTCTTGCAGCTGCACCGTGTCTGCCCCCGACCTCAAATCCCTGGGCGAC
 CAGTACGTGAAAGACGAATTTAGGAGACATAAGACCGTTGGTTCTGACGAGGCACAGCGT
 TTCTTGCAAGAATGGGAGGTGTATGCAACAGCGTTATTGCAACAGGCTAACGAAAAACAGA
 CAAAATTCAACTGAAAAAGCATGTTTTGGCACCTTCTCCAGAAAGAAAACTTAATGAC
 TTTCGTGATGAACAAAATTGGACAGTTGCAGGAGCCGATGCAAGAAGCCACAAAACCAAT
 AGGCAATTTAGTATTTCTGAGTCTATGAAACAAAATTTTAGTCTATACAAACAAAGCTTA
 ATAAGACATGCAAAAATTTAGAACCCTACTTTAACTGTCATTGGTTTTTGAATATATT
 TAAGCTTTGAAAACACCTGTTATTAATGAAATACTTTTTATTTTGGATATTATGATTGC
 AGTATATGGATCAAGATCACTAGTGACAATTGAAAAAACTATTGGAATAATAGCACTTG
 TATAAAATTCAGTTTTGGAACATAACAGCANATTTCTAGAATTTTCTGAAAATGTTTTA
 AAATGCTATTCTCATCCAGCCATATTAGTCTTCTGGCTTTTCTTAGCTTCATCAATAA
 GCATGTTGTGATAATGATAGATGTACAATCCAACACGTTATTATTTTTAAATACATTG
 TCATNCTGGACATTTTATCACTTCTAGTTAATATACATACATGATTTTTCTTCTGAAAG
 CCTTCTCTCTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020186 unedited
 GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTATACTTTGTATAGTTTATTA
 TACAAATGATTGATAGTAAAATAGTGAATTTTAAAGCTTCTTCTAACCTTTCATTGTGA
 ATGAACAGTGATGCAGGGAGAAGAGACATTCAGAAGAAAAATCATGTATGTATTATTA
 CTAGAAGTGATAAAATGTTGAGAATGACAATGATTTAAAAAATAATAACCTTGTGGAA
 TTGTACATCTATCATTATCACAACATGCTTATTTGATGAAGCTAAAGAAAAGCCAGAAGA
 CTAATATGGCTGGATGAGAATAGCATTTTAAAACATTTTCAGCAAAATCTAGAAATTTG
 CTGTTTAGTTCAAAACCTGAATTTTATACAAGTCTATTATTCCAATAGTTTTTTTCAAT
 TGTCACACTAGTGATCTTGATCCATATACTGCAATCATAATCCAAAATAAAAGAGTATTT
 CATTAATAACAGGTGTTTTCAAAGCTTAAATATATTTCAAACCAATGACAGTTAAAGT
 AGGGGTCTAAATTTTTGCATGTCTTATTAAGCTTTGTTGTATAGACTAAAATTTTGGTT
 TCATAGACTCAGAAATACTAAATTCCTATTGGGTTTTGTGGCTTCTTGCATCGGCTCCT
 GCAACTGTCCAATTTGTTTCATCAGGAGTCAATTAAGTTTTTCTCTGGGAGGAAGGTGC
 CANAACATGCTTTTTCCAGTTGAATTTTGTCTGTTTTCGTTAGCCTGTTGNCATAACGCTN
 GTGCATACACCTCCCATTTGCAAGAAACGCTGGGCCTCGTCAGACCCAACGGCTTATG
 TCTCCTAAATTCGGCTTTACGTAAGTGGTCGCCAGGGATTTGAGTCGGGGGCANACACGTG
 CACCTGCAAAAGCGCTTGCCATGCCGAACCTCCAGAAGTGCCGCCGCATACCGCCAGC
 N

Restriction Sites:

NotI-NotI

ACCN:

NM_020186

Insert Size:

980 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).

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_020186.1](#), [NP_064571.1](#)

RefSeq Size: 957 bp

RefSeq ORF: 378 bp

Locus ID: 57001

UniProt ID: [Q9NRP4](#)

Cytogenetics: 7q21.3

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]