

## Product datasheet for RG204626

### ACN9 (SDHAF3) (NM\_020186) Human Tagged ORF Clone

### **Product data:**

#### **OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

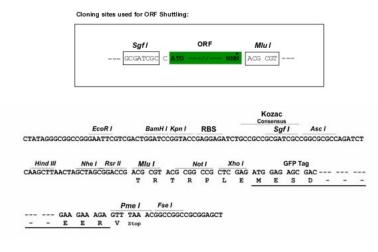
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Product Type:	Expression Plasmids
Product Name:	ACN9 (SDHAF3) (NM_020186) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACN9
Synonyms:	ACN9; DC11; LYRM10; Sdh7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RG204626 representing NM_020186 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCCGGGGCGGCACGTTTCTCGAGTCCGGGCATTGTACAAGCGCGTCTTGCAGCTGCACCGTGTTCTGC CCCCGGACCTCAAATCCCTGGGCGACCAGTACGTGAAAGACGAATTTAGGAGACATAAGACCGTTGGTTC TGACGAGGCACAGCGTTTCTTGCAAGAATGGGAGGTGTATGCAACAGCGTTATTGCAACAGGCTAACGAA AACAGACAAAATTCAACTGGAAAAGCATGTTTTGGCACCTTCCTCCCAGAAGAAAAACTTAATGACTTTC GTGATGAACAAATTGGACAGTTGCAGGAGCTGATGCAAGAAGCCACAAAACCCAATAGGCAATTTAGTAT TTCTGAGTCTATGAAACCAAAATTT
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>RG204626 representing NM_020186 <mark>Red</mark> =Cloning site Green=Tags(s)
	MPGRHVSRVRALYKRVLQLHRVLPPDLKSLGDQYVKDEFRRHKTVGSDEAQRFLQEWEVYATALLQQANE NRQNSTGKACFGTFLPEEKLNDFRDEQIGQLQELMQEATKPNRQFSISESMKPKF
	TRTRPLE - GFP Tag - V
<b>Restriction Sites:</b>	Sgfl-Mlul



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#### **Cloning Scheme:**



ACCN:	NM_020186
ORF Size:	375 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. <u>More info</u>
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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 020186.3</u>
RefSeq Size:	957 bp
RefSeq ORF:	378 bp

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	ACN9 (SDHAF3) (NM_020186) Human Tagged ORF Clone – RG204626
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]

# CitV promoter VP1.5 prime 77 promoter Sgfi SDHAF3 Miur Neo SV40 ori

Product images:

Circular map for RG204626

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