

Specifications:

Gene:	<i>h</i> SCD5
Accession:	NP_001032671.2
Insert size:	1006bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

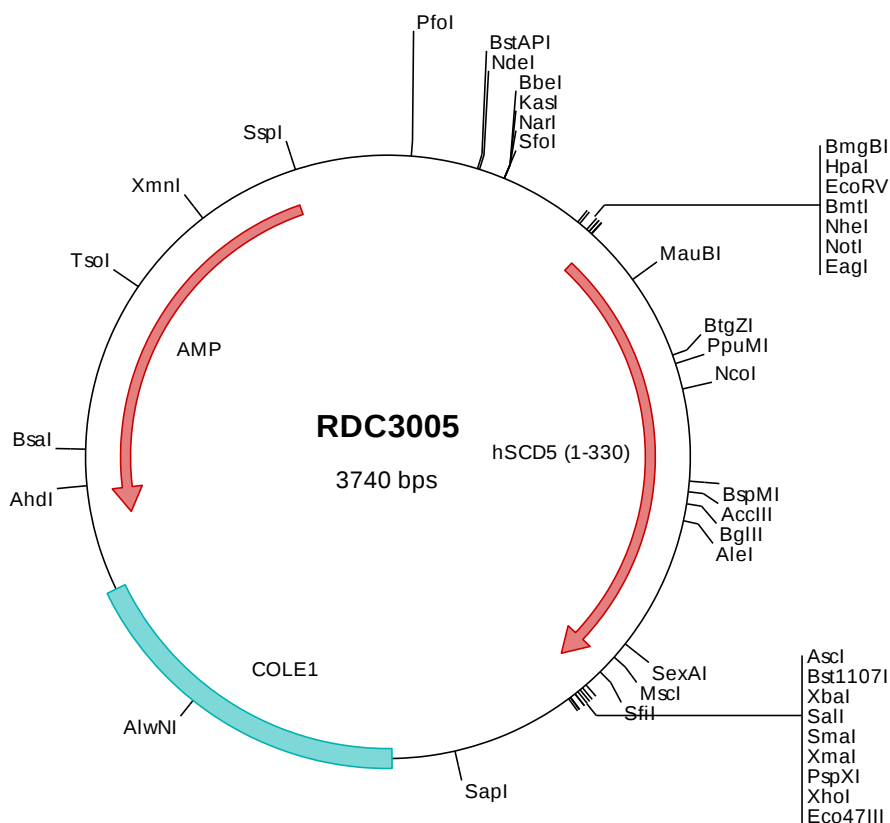
*h*SCD5 cDNA Plasmid

SCD5 stearoyl-CoA desaturase 5
[*Homo sapiens* (human)]

Also known as: SCD2; SCD4;
ACOD4; FADS4; HSCD5

Summary:

SCD5 is an integral membrane protein of the endoplasmic reticulum that catalyzes the formation of monounsaturated fatty acids from saturated fatty acids. SCD5 may be a key regulator of energy metabolism with a role in obesity and dislipidemia. SCD5 shares limited homology with the rodent SCDs and appears to be unique to primates.



> RDC3005 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgccaggcc cggccaccga cgcggggaag atccctttct gcgacgccaa
501  ggaagaaaac cgtgccgggc tgcgaaagtc tgagggcgcc ggccgccccg agaggccagg cgcgcgcggg cagcggcaga acatcgctctg gaggaaatgtc
601  gtcctgatga gcttgcctca cttggggggcc gtgtactccc tgggtgctcat ccccaagacc aagccactca ctctgctctg ggccctactc tgettectcc
701  tgcccgctct ggggtgtgaca gctggtgccc atcgcttggt gagccacagg tcttacgggg ccaagctgcc tctgaggata tttctggctg tcgccaaactc
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901  ttctctctct cccatattgg gtggctgttt gttcgcaagc atcgagatgt tattgagaag gggagaaagc ttgacgtcac tgacctgctt gctgatctctg
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1901 aaggcccgat tgcgtggcgtt tttctatagg ctccgcctcc ctccgcctcc ctctctgtt ccgacctgc cgtctaccgg atacctgtcc gcctttctcc cttcgggag
2001 aaagatacca ggcgttttccc cctggaagct ccctcgtcgc ctctctgtt cgtgtgtagg tctgtctctc caagctgggc tgtgtgcacg aacccccctt tcagcccgca
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3601 catatttgaa tgtattttag aaaaataaca aataggggtt ccgcgcacat ttccccgaaa agtgccacct gacgtctaag aaaccattat tatcatgaca
3701 ttaacctata aaaataggcg tatcacgagg cctttctctc

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> RDC3005 Translated Insert Sequence

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1   mpgpatdagk ipfcdakeei raglessegg ggperpgarg qrqnivwrnv vlmsllhlga vyslvlipka kpltlwayf cflaalagvt agahrlwshr
101  syraklplri flavansmaf qndifewsrh hrahkkyset dadphnarrg fffshigwlf vrkhrdviek grklvdtdll adpvvriqrk yykisvvlmc
201  fvvptlvpwy iwgeslwnsy flasilryti slniswlvns aahmygnrpy dkhisprqnp lvalgaigeg fhnyhtfpf dysasefgln fnpttwidif
301  mcwlglatdr kratkpmiea rkartgdssa

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