

Product datasheet for **SC108809**

SCD1 (SCD) (NM_005063) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCD1 (SCD) (NM_005063) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCD1
Synonyms:	FADS5; hSCD1; MSTP008; SCD1; SCDOS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108809 sequence for NM_005063 edited (data generated by NextGen Sequencing)

```

ATGCCGCCCACTTGCTGCAGGACGATATCTCTAGCTCCTATACCACCACCACCATT
ACAGCGCTCCCTCCAGGTCCTGCAGAATGGAGGAGATAAGTTGGAGACGATGCCCTC
TACTTGGAAAGACGACATTCGCCCTGATATAAAAGATGATATATGACCCACCTACAAG
GATAAGGAAGGCCAAGCCCAAGGTTGAATATGTCTGGAGAAACATCATCCTTATGTCT
CTGCTACACTTGGGAGCCCTGTATGGGATCACTTTGATTCTACCTGCAAGTTCTACACC
TGGCTTTGGGGGTATTCTACTATTTTGTGTCAGTGCCTGGGCATAACAGCAGGAGCTCAT
CGTCTGTGGAGCCACCGCTCTTACAAAGCTCGGCTGCCCTACGGCTCTTCTGATCATT
GCCAACACAATGGCATTCCAGAATGATGTCTATGAATGGGCTCGTGACCACCGTGCCAC
CACAAGTTTTTCAGAAACACATGCTGATCCTCATAATTCCCGACGTGGCTTTTTCTCTCT
CACGTGGGTTGGCTGCTTGTGCGCAAACACCCAGCTGTCAAAGAGAAGGGGAGTACGCTA
GACTTGTCTGACCTAGAAGCTGAGAAACTGGTGATGTTCCAGAGGAGGTAACAACCT
GGCTTGTCTGATGTGCTTCATCCTGCCACCGTGTGTCCTGGTATTTCTGGGGTGA
ACTTTTCAAACAGTGTGTTTCGTTGCCACTTTCTTGCATATGCTGTGGTGTCTAATGCC
ACCTGGCTGGTGAACAGTGTGCTGCCACCTCTTCGGATATCGTCTTATGACAAGAATT
AGCCCCGGGAGAATACCTGGTTTCACCTGGAGCTGTGGGTGAGGGCTCCACAACACTAC
CACCACCTCTTCCCTATGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTACC
ACATTTTCATTGATTGCATGGCCGCCCTCGGTCTGGCCTATGACCGGAAGAAAGTCTCC
AAGGCCGCATCTTGCCAGGATTAAGAACCAGGAGATGGAACTACAAGAGTGCTGA

```

Clone variation with respect to NM_005063.4
670 a=>c



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005063 unedited
 GTAATACGACTACTATAGGGCGGCGCGAATTCGGCACGAGGAGCATCCCCGGCGCCCT
 GCTGCGGTGCGCGGAGCCTCGGCCTCTGTCTCTCCCCCTCCCGCCCTTACCTCCACGC
 GGGACCGCCCGCCAGTCAACTCTCGCACTTTGCCCTGCTTGGCAGCGGATAAAAAGG
 GGGCTGAGGAAATACGGACACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATCCCGGC
 TCGGGGACCTCCACGCACCGCGGCTAGCGCCGACAACCAGCTAGCGTGCAAGCGCCGCG
 GCTCAGCGGTACCGCGGGCTTCGAAACCGCAGTCTCCGGCGACCCCGAACTCCGCTC
 CGGAGCCTCAGCCCCCTGGAAAGTGATCCCGGCATCGGAGAGCCAAGATGCCGGCCCACT
 TGCTGCAGGACGATATCTCTAGCTCCTATACCACCACCACCACCTTACAGCGCCTCCCT
 CCAGGGTCTGCAGAATGGAGGAGATAAGTTGGAGACGATGCCCTCTACTTGGAAAGACG
 ACATTCGCCCTGATATAAAAGATGATATATGANCCCCACCTACAAGGATAAGGGAAGG
 CCCAAGCCCCAAGTTGAATATGTCTGGAGAAACATCATCCTTATGTCTCTGCTACACTT
 GGGAGCCCTGTATGGGATCACTTTGATTCTACCTGNCAGTTCTACACCTGGCNTTGGGG
 GGTATTCTACTATTTTGTGAGTCCCTGGGCATACAGCANGAGCTCATCGTCTGTGGAGC
 CACCGCTTACAAGCTCGGCTGCCCTACGGCTTTTCTGATCATTGNCACACATGGNC
 ATTCAGAAATGATGTCTATGAATGGGCTCGTGACACCGTGCCACCACAGTTTTTCAGAACA
 N

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005063 unedited
 AACCCAAAAAACAANNACAAATAANNNNNATAACCTTGACTTTGGNACCGCGGCCCG
 ATNCTAGNGATCGGTTTTTTTTTTTTTTTTTTCAGATCACTTCACTTTTATTATGAACAA
 ACACAATCTCAGATTAGTACAATTAGCTTCAGAGTTGATTAATAGAAATTATTCCAAA
 ATTATTCTGTGACAAGTAACTACTATATCCCACATAAAAAGGGAAAAAATCCCACCCAA
 TCACAGAAAAGGCATCCTCTGTATGTTTCCGTGGCAATGCGTTGTTTATGTATTCTCAA
 TTTTGTCTGGCTAGTTATCCACCGCTTCTCCAATGGATTCACTTCACTTTCTTGGAGAACC
 ATATAGACTAATGACAGCATCTGGGACACACGGACGTATCAAGTTCATGGTGGACATTCC
 TATTATAAAAAAATACTCAGGTCTTGAGAATTCCTGTGCTGAAGGATCCCAAAATGCTTTC
 TAAAAAGCATTAGTCAATGCTCAAACTGCCCTTTGAGGTAGGTCACTTATTATCCCC
 ATTTTAAACAGAAGGAAAACCTGAGGCACCTATAGTTAAGTGACTTGCCCAGGGTCACACA
 GCAAGTCAGTGGCACAGTGGTTGGAGAGGCCCTGGCCTTAACCACCAGCATAACATGGCC
 ACCTCGCTTTTTTAACTTTTATGATGACCTATTTGAGCTACACTTACAGAGGATACCCC
 CCCAGATACAGCAAACCAAGGAGAAAAATTTTCCATTTTAAAAATGCTACAACCATCTTT
 TTACCCCAAAAAAATAAACTTATTAAATCAAATACTTTCAAATTTATTTCCACCC
 CCCCATAAAAAGTGGGGCCCTTAAAAAAGCAGCCCTAACAAAGTTCCAGAAATGAACC
 CCAGAGGGGAACCTGCAACCGGAAACCTGATATCCCCCCTCAAGCCN

Restriction Sites:

NotI-NotI

ACCN:

NM_005063

Insert Size:

5150 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:	<ol style="list-style-type: none">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_005063.4 , NP_005054.3
RefSeq Size:	5473 bp
RefSeq ORF:	1080 bp
Locus ID:	6319
UniProt ID:	O00767
Cytogenetics:	10q24.31
Domains:	FA_desaturase
Protein Families:	Transmembrane
Protein Pathways:	Biosynthesis of unsaturated fatty acids, PPAR signaling pathway
Gene Summary:	This gene encodes an enzyme involved in fatty acid biosynthesis, primarily the synthesis of oleic acid. The protein belongs to the fatty acid desaturase family and is an integral membrane protein located in the endoplasmic reticulum. Transcripts of approximately 3.9 and 5.2 kb, differing only by alternative polyadenylation signals, have been detected. A gene encoding a similar enzyme is located on chromosome 4 and a pseudogene of this gene is located on chromosome 17. [provided by RefSeq, Sep 2015]