

## Product datasheet for **SC216484**

### SCD5 (NM\_001037582) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	SCD5 (NM_001037582) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	SCD5
Synonyms:	ACOD4; FADS4; HSCD5; SCD2; SCD4
ACCN:	NM_001037582
Insert Size:	1818 bp



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**Insert Sequence:** >SC216484 3'UTR clone of NM\_001037582  
 The sequence shown below is from the reference sequence of NM\_001037582. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AAGGCCAGGACTGGAGACAGCAGTGCTTGAACCTTGAACGCCATCCCACATGTCTGCCGTTGCAACCT
CGTTCATGGCTTTGGTTACAATAGCTCTTGTACATTGGATCGTGGGAGGGGCGAGAGGTGGGGAA
GGAACGAGTCAATGTGGTTTGGGAATGTTTTGTTTATCTCAAAATAATGTTGAAATACAATTATCAAT
GAAAAAATTTCTGTTTTTTTTTTGTTTGTGTTTTGAGACAGAGTCTCACTCTGTCAACCCAGGCT
GGAGTGCAGTGGCGCAGTCTCGGCTCACTGCAGCCTCCACCTACCTGGTCAAGCAATTCTCCTGCCTC
AGCCTCCTGAGTAGCTGAGATTACAGGAGCCTGCCACCACCCAGCTAATTTTTTTGTATTTTTAGTA
GAGACAGGTTTTCATCATGTTGGCCAGACTGGCCTCGAATTCCTGACCTCAGGCAATCCACCCGCTCG
GCCTCCCAAAGAGCTGGGATTACAGGCGTGAGCCACCGCACCTGCCGAAAAAACTTTTTTTTTTTG
AGACGGAGGCTCGCTCTGTCCCCAGGCTGGAGTGCAGTGGCGAGATCTAGCTCACTGCAAGCTCCGC
CTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGAGCCAGCGCCAGCCTAAA
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TGTTTCTGTTTTGTTAATTATTGTGTGTGTGGTTTTATTGTTTGTCTAAGAGAATCAAAAAGTAAA
AAAATGAGAATACAGGAAATGGCTCTTGTGTTTTTTTTGCTGTGTTTACAGCTTGTAAATGCTCTACT
GTCTTTGTTTTCAAGAGAGATTTGTTCACTGCCAGCTCGTTTTGTGTCCTGAGCCCTATGGCCAGCCCA
CCTTATAAATCATGCCTGTTTAGATGTTTGATTTGTTTCTGTTTCTATTGTTATCTTAAAGGTGTATA
ACTCTGACATGCCAGACATCAAATTAAGCTCAAATTAAGCTCTCGTTTAAATGTTTAAAGCACCTAATTT
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TCCACATCAGACCATCAGATCTTGAGAACCAACAGTTATCTAGAATTCGGTGTCTACTAATGTTTCACC
TGCATGCAGCCTTCATTAATTTGTAGCAAAATATAAAGTGATCATTATGTAGCTTCTGGATTAATAAAA
ATTTGTGTGTGAAGTTGCTTTGTAAGTGCATGTGGAATTAATGGGACAGTGTGCCCTTTGTGTTAGAT
GTTAGAGCAAAAAGAAAGGCTTATAGTGTAGTATTGGAGCACTTGAAGATAGATATTTTCAGAAAAG
ATGTAGGATTTAAAAGTTAAATTTTAAATTTTAGAAAAAGATATGATGGCAATTGAAAATAGTCACAAT
GAAGTTCTTCATCCAGTAGGTGTTAACAGTGTATTTTGCCTGTAATGTGTAAGTGTGAGTGTAT
TTACAATAAATGATTATGAATCA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATCCACCCGCGCCTTCTATGAAAGG
  
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**Restriction Sites:** Sgfl-Mlul

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_001037582.3](#)

**Summary:** Stearoyl-CoA desaturase (SCD; EC 1.14.99.5) is an integral membrane protein of the endoplasmic reticulum that catalyzes the formation of monounsaturated fatty acids from saturated fatty acids. SCD may be a key regulator of energy metabolism with a role in obesity and dislipidemia. Four SCD isoforms, Scd1 through Scd4, have been identified in mouse. In contrast, only 2 SCD isoforms, SCD1 (MIM 604031) and SCD5, have been identified in human. SCD1 shares about 85% amino acid identity with all 4 mouse SCD isoforms, as well as with rat Scd1 and Scd2. In contrast, SCD5 shares limited homology with the rodent SCDs and appears to be unique to primates (Wang et al., 2005 [PubMed 15907797]).[supplied by OMIM, Mar 2008]

**Locus ID:** 79966

**MW:** 68.4