

## Product datasheet for **MC207388**

### Scd2 (NM\_009128) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Scd2 (NM\_009128) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Scd2  
**Synonyms:** mir-5114; Mir5114; Scd-2; swty  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC207388 representing NM\_009128  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGGCCACATACTGCAAGAGATCTCTGGCGCTTACTCAGCCACCACCACAATCACAGCGCCACCTT  
 CTGGGGGACAGCAGAATGGAGGCGAGAAGTTTGAAGAGTTCTCACCCTGGGGAGCAGATGTTTCGCC  
 TGAATAAAAGATGATCTATATGACCCACCTATCAGGATGATGAGGGGCCCCGCCAAGCTGGAGTAC  
 GTCTGGAGGAACATCATTCTCATGGCCCTGCTGCATTTGGGAGCCTTGACGGGATCACACTGGTCCCT  
 CCTGCAAGCTCTACACCTGTCTCTTCGCGTATTTGTACTATGTAATCAGCGCCCTGGGCATCACAGCCGG  
 GGCTCATCGCCTGTGGAGCCACAGAACATACAAGGCACGGCTGCCCTGAGGCTCTTCTCATATTGCC  
 AACACCATGGCGTTCCAGAATGACGTGTATGAATGGGCCCGAGATCACCGCGCCACCACAAGTTCTCAG  
 AAACACACGCGGACCCCTACAATTCGCGCGTGGCTTCTTTTCTCTCACGTGGGTTGGCTGCTGTGCG  
 CAAACACCCGGCTGTCAAAGAGAAGGGCGGAAACTGGACATGTCTGACCTGAAAGCCGAGAAGCTGGTG  
 ATGTTCCAGAGGAGTACTACAAGCCGGCCTCCTGCTGATGTGCTTCGCTGCCACGCTGGTGGCCCT  
 GGTACTGCTGGGCGGAGACTTTTGTAACAGCCTGTGCGTTAGCACCTTCTTGCGATACGCCGTGGTGCT  
 CAACGCCACCTGGCTGGTGAACAGTGCCGCCACCTCTACGGATATCGCCCTACGACAAGAACATTAGC  
 TCTCGGGAGAACATCTTGTTTCCATGGGAGCTGTGGCGAGGGCTTCCACAACACCACCGCCTTCC  
 CCTACGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTACCACGTTCTTCATCGATTGCATGGC  
 TCTCCTGGCCTGGCTTACGACCGGAAGAGAGTGTCCAGGGCTGCTGCTTGGCCAGGATTAAGAGA  
 GGAGACGGAAGCTGCAAGAGCGGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_009128
<b>Insert Size:</b>	1077 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_009128.2</a> , <a href="#">NP_033154.2</a>
<b>RefSeq Size:</b>	5453 bp
<b>RefSeq ORF:</b>	1077 bp
<b>Locus ID:</b>	20250
<b>UniProt ID:</b>	<a href="#">P13011</a>
<b>Cytogenetics:</b>	19 37.98 cM
<b>Gene Summary:</b>	Stearyl-CoA desaturase that utilizes O <sub>2</sub> and electrons from reduced cytochrome b5 to introduce the first double bond into saturated fatty acyl-CoA substrates (PubMed:16443825). Catalyzes the insertion of a cis double bond at the delta-9 position into fatty acyl-CoA substrates including palmitoyl-CoA and stearyl-CoA (PubMed:16443825). Gives rise to a mixture of 16:1 and 18:1 unsaturated fatty acids (PubMed:16443825). Contributes to the biosynthesis of membrane phospholipids, cholesterol esters and triglycerides, especially during embryonic development and in neonates (PubMed:16118274). Important for normal permeability barrier function of the skin in neonates (PubMed:16118274).[UniProtKB/Swiss-Prot Function]