

## Product datasheet for MC209830

### Scd3 (NM\_024450) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Scd3 (NM\_024450) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Scd3  
 Synonyms: 4930513N16Rik  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC209830 representing NM\_024450  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCAGGGCACCTGCTGCAAGAAGAGATGACGCCTTCGTACACGACCACCACCACATCACAGCGCCTC  
 CCTCTGGAAGCCTGCAGAATGGACGAGAGAAGGTGAAGACGGTCCCTCTACCTGGAAGAAGACATCCG  
 TCCTGAAATGAAAGAAGATATATACGACCCACCTATCAGGATGAGGAGGGGCCCGCCCAAGCTGGAG  
 TACGCTCTGGAGGAACATCATTCTCATGGCCCTGCTGCACGTGGGAGCCCTGTACGGGATCACACTGGTTC  
 CCTCTGCAAGCTCTACACCTGCCTCTTCGCGTTTGTCTACTATGTGATCAGTATTGAGGGCATTGGAGC  
 CGGAGTCCATCGCCTGTGGAGCCACAGAACGTACAAGGCACGCCTGCCCTGCGGATCTTCTCATCATT  
 GCCAACACCATGGCGTTCAGAAATGACGTGTATGAATGGGCCGAGATCACCGAGCCACCACAAGTTCT  
 CAGAAACACACGCCGACCCTCACAATCCCGCCGTGGCTTCTTCTCTCACGTGGGTTGGCTGTTGT  
 GCGCAAACACCCGGCTGTCAAAGAGAAGGGCGGAAAACGGACATGTCTGACCTGAAAGCCGAGAAGCTG  
 GTGATGTTCCAGAGGAGGTACTACAAGCCTGGCATTCTGCTGATGTGCTTCATCCTGCCACGCTGGTGC  
 CCTGGTACTGCTGGGGCGAGACTTTTCTAAACAGTTTTTATGTTGCCACTTTACTGAGATACGCTGTGGT  
 GCTCAACGCCACTTGGCTGGTGAACAGTGCCGCCACCTCTACGGGTATCGCCCTACGATAAGAACATC  
 GATCCCCGGCAGAATGCCTGGTTTCCTTGGGAAGTATGGGCGAGGGCTCCACAACACCACATGCCT  
 TCCCTACGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACGTTCTTATCGACTGCAT  
 GGCTGCACTGGGCTGGCTTACGACCGGAAGAGAGTGTCCAAGGCCACTGTCTTAGCCAGGATTAAGAGA  
 ACTGGAGACGGGAGTCACAAGAGTGCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_024450



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<b>Insert Size:</b>	1080 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>RefSeq:</b>	<u>NM_024450.2, NP_077770.1</u>
<b>RefSeq Size:</b>	3470 bp
<b>RefSeq ORF:</b>	1080 bp
<b>Locus ID:</b>	30049
<b>UniProt ID:</b>	<u>Q99PL7</u>
<b>Cytogenetics:</b>	19 C3
<b>Gene Summary:</b>	Stearyl-CoA desaturase that utilizes O(2) and electrons from reduced cytochrome b5 to introduce the first double bond into saturated fatty acyl-CoA substrates. Catalyzes the insertion of a cis double bond at the delta-9 position into fatty acyl-CoA substrates including palmitoyl-CoA (PubMed:16443825, PubMed:26098370). Has a strong preference for saturated fatty acids with chain lengths of 14 or 16 carbon atoms (C14:0 and C16:0), and has only very low activity with stearate (C18:0) (PubMed:16443825, PubMed:26098370). Required for the biosynthesis of membrane phospholipids, cholesterol esters and triglycerides (By similarity). [UniProtKB/Swiss-Prot Function]