

Product datasheet for **SC327887**

FADS1 (NM_013402) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FADS1 (NM_013402) Human Untagged Clone
Tag:	Tag Free
Symbol:	FADS1
Synonyms:	D5D; FADS6; FADSD5; LLCDL1; TU12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_013402 edited
 GTTGCCCAAGACCACCGGGGACGGGATCTCGCTCCCCGCGCCACGAGGCTCGGCCAAT
 GGGAACGCGCGCTGCGAGGCCCGCGGTCTGCCCTGCGGTGCTGAAAACCCGGCGCGCAG
 GCGGCTGGCTCTGGGCGCGCCAGCAAATCCACTCTGGAGCCCGGGACCCCGAGCAC
 GCGCCTGACAGCCCTGCTGGCCCGCGCGCGGTGCGCCAGGCCAGCTATGGCCCCGA
 CCCGGTGGCCCGAGACCGGGCTCAGGGACCTACCCCGCGCTACTTACCTGGGACGA
 GGTGGCCAGCGCTCAGGGTGCAGGAGCGGTGGCTAGTGATCGACCGTAAGGTGTACAA
 CATCAGCGAGTTCACCCCGCGCATCCAGGGGGCTCCCGGGTCATCAGCCACTACGCCGG
 GCAGGATGCCACGGATCCCTTTGTGGCCTTCCACATCAACAAGGGCCTTGTGAAGAAGTA
 TATGAACTCTCTCTGATTGGAGAACTGTCTCCAGAGCAGCCAGCTTTGAGCCACCAA
 GAATAAGAGCTGACAGATGAGTTCGGGAGCTGCGGGCCACAGTGGAGCGGATGGGGCT
 CATGAAGGCCAACATGTCTTCTCTGCTGTACCTGCTGCACATCTTGTGCTGGATGG
 TGCAGCCTGGCTACCCTTTGGGTCTTTGGGACGTCCTTTTTGCCCTTCTCCTCTGTGC
 GGTGCTGCTCAGTGCAGTTCAGGCCAGGCTGGTGGTGCAGCATGACTTTGGGCACCT
 GTCGGTCTCAGCACCTCAAAGTGAACCATCTGTACATCATTTTGTGATTGGCCACCT
 GAAGGGGGCCCCCGCCAGTTGGTGAACCATGCACTTCCAGCACCATGCCAAGCCCAA
 CTGCTTCCGAAAAGACCCAGACATCAACATGCATCCCTTCTTCTTGCCTTGGGGAAGAT
 CCTCTCTGTGGAGCTTGGGAAACAGAAGAAAAATATATGCCGTACAACCACAGACAA
 ATACTTCTTCTAATTGGGCCCCAGCCTTGTGCCTCTCTACTTCCAGTGGTATATTTT
 CTATTTTGTATCCAGCGAAAGAAGTGGGTGGACTTGGCTGGATGATTACCTTCTACGT
 CCGTCTTCTCACTTATGTGCCACTATTGGGGCTGAAAGCCTTCTGGGCCTTTTCTT
 CATAGTCAGGTTCTGAAAGCAACTGGTTTGTGTGGGTGACACAGATGAACCATATTCC
 CATGCACATTGATCATGACCGGAACATGGACTGGGTTTCCACCCAGCTCCAGGCCACATG
 CAATGTCCACAAGTCTGCCTTCAATGACTGGTTTCAAGTGGACACCTCAACTTCCAGATTGA
 GCACCATCTTTTTCCACGATGCCTCGACACAATTACCACAAAAGTGGCTCCCTGGTGCA
 GTCCTTGTGTGCAAGCATGGCATAGAGTACCAGTCCAAGCCCCTGCTGTGAGCCTTCGC
 CGACATCATCCACTACTAAAGGAGTCAAGGCAGCTCTGGCTAGATGCCTATCTTACCA
 ATAACAACAGCCACCCTGCCAGTCTGGAAGAAGAGGAGGAAGACTCTGGAGCCAAGGCA
 GAGGGGAGCTTGAGGGACAATGCCACTATAGTTTAACTACTCAGAGGGGTGGGTTGGG
 GACATAAAGCCTCTGACTCAAACCTCCCTTTTATCTTCTAGCCACAGTTCTAAGACCC
 AAAGTGGGGGTGGACACAGAAGTCCCTAGGAGGAAGGAGCTGTGGGGCAGGGGTGTA
 AATTATTTCTTTTTCTAGTTTGGCACATGCAGGTAGTTGGTGAACAGAGAGAACCAGGA
 GGGTAACAGAAGAGGAGGACCTACTGAACCCAGAGTCAGGAAGAGATTTAACACTAAAA
 TTCCACTCATGCCGGCGTGGTGGCACGCGCTGTAATCCAGCTACCCAGGAGGCTGAG
 GCAGGAGAATCGCTTGAACCGGGGAGGTGGAGGTTGCAGTGAGCTGAGATCACGCCATTG
 TACTCCAGCCTGGGCGACAGAGCAAGACTCCATTTCAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_013402
- Insert Size:** 4432 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_013402.4.
- 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:

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_013402.4](#), [NP_037534.3](#)

RefSeq Size: 4432 bp

RefSeq ORF: 1506 bp

Locus ID: 3992

UniProt ID: [O60427](#)

Cytogenetics: 11q12.2

Domains: heme_1, FA_desaturase

Protein Families: Transcription Factors, Transmembrane

Protein Pathways: Biosynthesis of unsaturated fatty acids

Gene Summary: The protein encoded by this gene is a member of the fatty acid desaturase (FADS) gene family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl chain. FADS family members are considered fusion products composed of an N-terminal cytochrome b5-like domain and a C-terminal multiple membrane-spanning desaturase portion, both of which are characterized by conserved histidine motifs. This gene is clustered with family members FADS1 and FADS2 at 11q12-q13.1; this cluster is thought to have arisen evolutionarily from gene duplication based on its similar exon/intron organization. [provided by RefSeq, Jul 2008]