

## Product datasheet for **SC320773**

### **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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_013402.3  
 GCGCGGCGTGCAGGCCAGCTATGGCCCCGACCCGGTGGCCGCCGAGACCCGGGCTCA  
 GGGACCTACCCCGCGCTACTTCACCTGGGACGAGGTGGCCAGCGCTCAGGGTGCAGGA  
 GCGGTGGCTAGTATCGACCGTAAGGTGTACAACATCAGCGAGTTCACCCGCCGGCATCC  
 AGGGGGCTCCCGGGTTCATCAGCCACTACGCCGGCAGGATGCCACGGATCCCTTTGTGGC  
 CTTCCACATCAACAAGGGCCTTTGTAAGAAGTATGAACCTCTCTCTGATTGGAGAAT  
 GTCTCCAGAGCAGCCAGCTTTGAGCCCAAGAATAAAGAGCTGACAGATGAGTTCCG  
 GGAGCTGCGGGCCACAGTGGAGCGGATGGGGCTCATGAAGGCCAACCATGTCTTCTCTCT  
 GCTGTACCTGCTGCACATCTTGCTGCTGGATGGTGCAGCCTGGCTCACCTTTGGGTCTT  
 TGGGACGTCCTTTTTGCCCTTCTCTCTGTGCGGTGCTGCTCAGTGCAGTTCAGGCCCA  
 GGCTGGCTGGCTGCAGCATGACTTTGGGCACCTGTCGGTCTTCAGCACCTCAAAGTGAA  
 CCATCTGTACATCATTTTGTGATTGGCCACCTGAAGGGGGCCCCGCCAGTTGGTGAA  
 CCACATGCACTTCAGCACCATGCCAAGCCCACTGCTCCGCAAAGACCCAGACATCAA  
 CATGCATCCCTTCTTTGCCCTGGGGAAAGATCTCTCTGTGGAGCTTGGGAAACAGAA  
 GAAAAATATATGCCGTACAACCACCAGCACAAATACTTCTTCTAATTGGGCCCTCAGC  
 CTTGCTGCCTCTACTTCCAGTGGTATATTTTCTATTTTGTATCCAGCGAAAGAAGTG  
 GGTGGACTTGGCCTGGATGATTACCTTCTACGTCCGCTTCTTCTCACTTATGTGCCACT  
 ATGGGGCTGAAAGCCTTCTGGGCCTTTTCTCATAGTCAGGTTCTGGAAAGCAACTG  
 GTTTGTGTGGGTGACACAGATGAACCATATCCCATGCACATTGATCATGACCGGAACAT  
 GGACTGGGTTCCACCCAGCTCCAGGCCACATGCAATGTCCACAAGTCTGCCTTCAATGA  
 CTGGTTCAGTGGACACCTCAACTTCCAGATTGAGCACCATCTTTTTCCACGATGCCTCG  
 ACACAATTACCACAAAGTGGCTCCCCTGGTGCAGTCTTGTGTGCCAAGCATGGCATAGA  
 GTACCAAGTCCAAGCCCCGTGCTGCAGCCTTCGCCGACATCATCCACTCACTAAAGGAGTC  
 AGGGCAGCTCTGGCTAGATGCCTATCTTACCAATAACAACAGCCACCCTGCCAGTCTG  
 GAAGAAGAGGAGGAAGACTCTGGAGCCAAGGCAGAGGGGAGCTTGGGGACAATGCCACT  
 ATAGTTTAATACTCAGAGGGGGTGGGTTTGGGGACATAAAGCCTCTGACTCAAACCTCT  
 CCCTTTTATCTTAGCCACAGTTCTAAGACCCAAAGTGGGGGTGGACACAGAAGTCCC  
 TAGGAGGGAAGGAGCTGTTGGGGCAGGGGTGTAATTTCTTTTCTAGTTTGGCAC  
 ATGCAGGTAGTTGGTGAACAGAGAGAACCAGGAGGTAACAGAAGAGGAGGGACCTACTG  
 AACCCAGAGTCAGGAAGAGATTTAACACTAAAATTCACCTCATGCCGGGCGTGGTGGCAC  
 GCGCCTGTAATCCAGCTACCCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCGGGGAGG  
 TGGAGGTTGCAGTGAGCTGAGATCACGCCATTGTACTCCAGCCTGGGCGACAGAGCAAGA  
 CTCATTTCAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_013402
- 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_013402.3](#), [NP\\_037534.2](#)

**RefSeq Size:** 4432 bp

**RefSeq ORF:** 1335 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]