

Product datasheet for **SC105368**

FADS1 (BD127299) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FADS1 (BD127299) Human Untagged Clone
Tag:	Tag Free
Symbol:	FADS1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for BD127299, the custom clone sequence may differ by one or more nucleotides

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GTGAGTTGCCAAGACCCACCGGGGACGGGATCTCGCTCCCCGCGCCACGAGGCTCGGCCAATGGGAAC
GCGCGCTGCGAGGCCCGCGGTCTGCCCTGCGGTGCTGAAAACCCGCGCGCAGGCGGCTGGCTCTGGGC
GCGCGCCAGCAAATCCACTCCTGGAGCCCGCGGACCCGAGCACGCGCCTGACAGCCCCTGCTGGCCGG
CGCGCGCGTCCGACAGGCCAGCTATGGCCCCGACCCGTTGGCCGCCGAGACCCGCGCTCAGGGACCTAC
CCCGCGCTACTTCACCTGGGACGAGGTGGCCAGCGCTCAGGGTGCAGGAGCGGTGGCTAGTGATCGAC
CGTAAGGTGTACAACATCAGCGAGTTACCCGCGCGCATCCAGGGGGCTCCCGGGTCATCAGCCACTACG
CCGGGCAGGATGCCACGGATCCCTTTGTGGCTTCCACATCAACAAGGGCCTTGTGAAGAAGTATATGAA
CTCTCTCTGATTGGAGAACTGTCTCCAGAGCAGCCAGCTTTGAGCCCACCAAGAATAAAGAGCTGACA
GATGAGTCCGGGAGCTGCGGGCCACAGTGGAGCGGATGGGGCTCATGAAGGCCAACCATGTCTTCTTCC
TGCTGTACCTGCTGCACATCTTGTCTGGATGGTGCAGCCTGGCTCACCTTTGGGTCTTTGGGACGTC
CTTTTTGCCCTTCTCTCTGTGCGGTGCTGCTCAGTGCAGTTACAGGCCAGGCTGGCTGGCTGCAGCAT
GACTTTGGGCACCTGTCCGTCTCAGCACCTCAAAGTGAACCATCTGCTACATCAATTTGTGATTGGCC
ACCTGAAGGGGGCCCCGCCAGTTGGTGAACCATGCACCTCCAGCACCATGCCAAGCCCAACTGCTT
CCGCAAAGACCCAGACATCAACATGCATCCCTTCTTTGCCTTGGGAAGATCCTCTCTGTGGAGCTT
GGGAAACAGAAGAAAAATATAGCCGTACAACCACCAGCACAAATACTTCTTCCATTTGGGCCCCAG
CCTTGCTGCCTCTACTTCCAGTGGTATATTTCTATTTGTTATCCAGCGAAAGAAGTGGGTGGACTT
GGCCTGGATGATTACCTTCTACGTCCGCTTCTTCTCACTTATGTCCACTATTGGGGTCAAAGCCTTC
CTGGGCCTTTTCTCATAGTCAGGTTCTGAAAGCAACTGGTTTGTGTGGGTGACACAGATGAACCATA
TTCCCATGCACATTGATCATGACCGGAACATGGACTGGTTTCCACCCAGCTCCAGGCCACATGCAATGT
CCACAAGTCTGCCTTCAATGACTGGTTCAGTGGACACCTCAACTCCCAGATTGAGCACCATCTTTTTCCC
ACGATGCCTCGACACAATTACCACAAAGTGGCTCCCTGGTGCAGTCCTTGTGTGCCAAGCATGGCATAG
AGTACCAGTCCAAGCCCCTGCTGTGAGCCTTCGCGGACATCATCCACTACTAGAGGAGTCAAGGCAGCT
CTGGCTAGATGCCTATCTTACCAATAACAACAGCCACCCTGCCAGTCTGGAAGAAGAGGAGGAAGACT
CTGGAGCCAAGGCAGAGGGGAGCTTGGGGACAATGCCACTATAGTTAATACTCAGAGGGGGTTGGGT
TGGGGACATAAAGCCTCTGACTCAAACCTCCCTTTTATCTTCTAGCCACAGTTCTAAGACCCAAAGT
GGGGTGGACACAGAAGTCCCTAGGAGGAAGGAGCTGTTGGGGCAGGGGTGAAATTATTTCTTTTTTC
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GAACCCAGAGTCAGGAAGAGATTTAACTAAAATTCACCTCATGCCGGCGTGGTGGCACGCGCCTGTA
ATCCCAGTACCCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCGGGGAGGTGGAGGTTGCAGTGAGCTG
AGATCACGCCATTGACTCCAGCCTGGCGACAGAGCAAGACTCCATTT
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for BD127299 unedited
 TCTATAACCCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA
 AGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCG
 CGAATTCGGCAGCAGGGTTGCCAAGACCACCGGGGACGGGATCTCGCTCCCCGCGCC
 ACGAGGCTCGGCAATGGGAACGCGCGCTGCGAGGCCCGCGGTCTGCCCTGCGGTGCTG
 AAAACCCGGCGCGCAGGGCGGCTGGCTCTGGGCGCGGCCAGCAAATCCACTCTGGAGCC
 CGCGGACCCCGAGCACGCGCCTGACAGCCCTGCTGGCCCGCGCGGGCGTCCGACGGC
 CAGCTATGGCCCCCGACCCGGTGGCCGCGAGACCGCGGCTCAGGGACCTACCCCGCGCT
 ACTTCACCTGGGACGAGGTGGCCAGCGCTCAGGGTGCAGGAGCGGTGGCTAGTGATCG
 ACCGTAAGGTGTACAACATCAGCGAGTTCACCCGCCGGCATCCAGGGGGCTCCCGGGTCA
 TCAGCCACTACGCCGGCAGGATGCCACGGATCCCTTTGTGGCCTTCCACATCAACAAGG
 GCCTTGTGAAGAAGTATATGAATCTCTCTGATTGGAGAAGTGTCTCCAGAGCAGCCCA
 GCTTTGAGCCACCAAGAATAAAGAGCTGACAGATGAGTCCGGGAGCTGCGGGCCACAG
 TGGAGCGGATGGGGCTCATGAAGGCCAACCATGTCTTCTCTCTGCTGTACCTGCTGCACA
 TCTTGCTGCTGGATGGTGCAGCCTGGCTCACCTTTGGGTCTTTGGGACGTCCTTTTTGC
 CCTTCTCTCTGTGCCGTGCTGCTCAGTGCAGTTCAGGCCCCAGCTGGCTGGCTGCAGC
 ATGACTTTGGGACCCCTGTCGTCTTCAGCACTCAAGTGAACC

3' Read Nucleotide Sequence:

>OriGene 3' read for BD127299 unedited
 TATGGCCGCGCCGCATCTAAATCGAGTTTTTTTTTTTTTTTTTTTGAATGGAGTCTTGC
 TCTGTGCGCCAGGCTGGAGTACAATGGCGTGATCTCAGCTCACTGCAACCTCCACCTCCC
 CGGTTCAAGCGATTCTCCTGCCCTCAGCCTCCTGGGTAGCTGGGATTACAGGCGCGTGCCA
 CCACGCCCGGCATGAGTGAATTTTAGTGTAAATCTCTTCTCTGACTCTGGGTTCAAGTAG
 GTCCCTCCTCTTCTGTTACCCCTCCTGGTCTCTCTGTTACCAACTACCTGCATGTGCCA
 AACTAGAAAAAGGAAATAATTTACACCCCTGCCCAACAGCTCCTTCCCTCCTAGGGACT
 TCTGTGTCCACCCCCACTTTGGGTCTTAAACTGTGGCTAGAAGATAAAAGGGAGGAGT
 CCGAGTCAGAGGCTTTATGTCCCAACCCCAACCCCTCTGAGTATTAACCTATAGTGGC
 ATTGTCCCTCAAGCTCCCTCTGCCTTGGCTCCAGAGTCTTCTCCTCTTCTTCCAGACT
 GGGCACGGTGGCTGCCGTTATTGGCGAAGATAGGCCTTAGCCCGAGCCCGCCTGACTCC
 TTTACGAGTGGATGATGCCGGAAGTTGACAGCAGGGGCTCGGACTGGTACTCTATGC
 CATGCTTTGCCACACAAGGACTGCCCAAGGGCACCCACCTTTGGGGCCATTGCGCGTCG
 AGGCCATCGTCGACAAAGACGGGCGCCCAACCCCTCCACCTCGCAGGTGCCACCCT
 GAACCCGCTCCTTTGAACGCCCGCCCTTGGCGACCTCCCCAGTGGGTCTTGGAGCCCG
 GGCCGGAAACCCAGTTCATGNTCCNNNCCCCAACAAANGNCCNNCCNAACNNNNNAC
 NNCNNNNNNNNNNNNNNNTNNTNCNNNTNNNNNNNNANCCNNCCTCCNNNNNCNNNC
 NCNCCNCCNCCCCNCCCCCCCCCCCCCCCCNNCNCNNCNCNNCNCNNCNCNNNNNN
 NNNNCCCCCCCCCTGTCCNCNG

Restriction Sites:

NotI-NotI

ACCN:

BD127299

Insert Size:

2130 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).

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:	<ol style="list-style-type: none">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:	BD127299.1
RefSeq Size:	2080 bp
RefSeq ORF:	2080 bp
Locus ID:	3992
Cytogenetics:	11q12.2
Domains:	heme_1, FA_desaturase
Protein Families:	Transcription Factors, Transmembrane
Protein Pathways:	Biosynthesis of unsaturated fatty acids
Gene Summary:	<p>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]</p>